

7th EPO-USPTO CPC annual meeting with national offices

Pierre Held – Nelson das Neves (EPO)

Dimple Sopariwala – Richard Lee (USPTO)

18 February 2020

F16M11/2042

••••{constituted of several dependent joints}

F16M11/205

•••••{the axis of rotation intersecting in a single point e.g. gimballs}

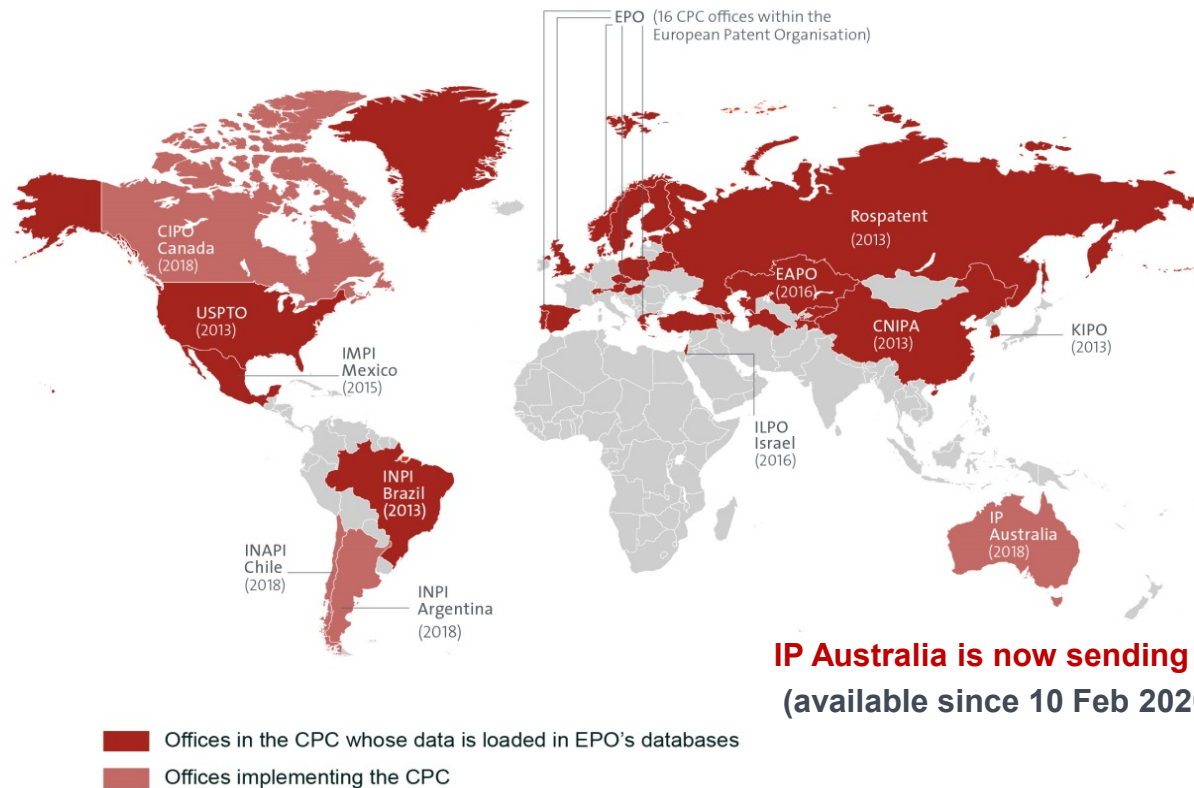
Agenda:

- CPC and National offices
 - CPC coverage
 - CPC updates
 - CPC Collaborative Environment (CE)
 - CPC International
 - Impact on DocDB XML users
 - CPC updates at the USPTO
-

The Cooperative Patent Classification

From a bilateral initiative to a global international
classification system

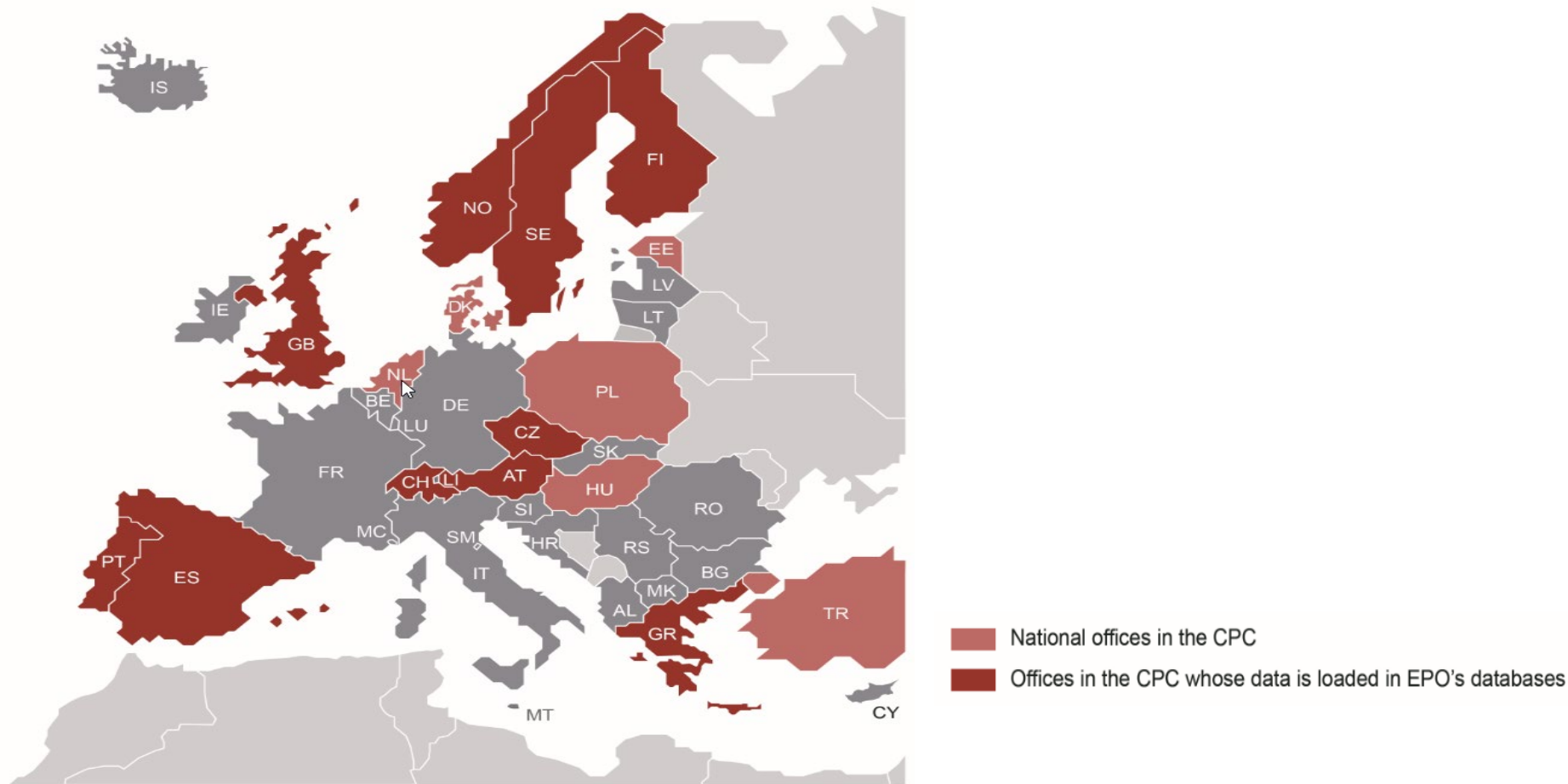
29 Offices participating in the CPC



**IP Australia is now sending CPC data
(available since 10 Feb 2020)**

Source: European Patent Office

... including 16 EPO Member States



CPC coverage

Much more than EP & US documents

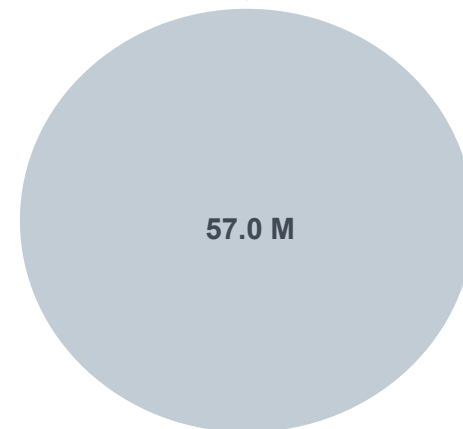
CPC coverage EPO core collection

Country	Country Code	Total Number of Bibliographic Data Records (source: EPODOC on 05/02/2020)	Number of Bibliographic Data Records classified in CPC	% of Bibliographic Data Records classified in CPC
EPO	EP	3.592.456	3.590.219	99,9%
United States	US*	12.834.263	12.822.785	99,9%
Austria	AT	1.008.631	723.590	71,7%
Belgium	BE	589.019	555.383	94,3%
Switzerland	CH	719.173	580.443	80,7%
Germany	DE	5.756.720	4.956.846	86,1%
France	FR	2.460.929	2.440.721	99,2%
United Kingdom	GB	2.409.191	2.153.523	89,4%
Luxembourg	LU	63.216	32.192	50,9%
The Netherlands	NL	551.987	539.484	97,7%
ARIPO	AP	4.073	3.992	98,0%
Australia	AU	1.498.948	1.203.520	80,3%
Canada	CA	2.497.260	1.385.029	55,5%
OAPI	OA	13.432	13.207	98,3%
WIPO	WO	3.713.592	3.703.858	99,7%

*US A and B Publications only

TOTAL	<u>37.712.890</u>	<u>34.704.792</u>	
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+ family propagation
+ 1.5 M NPL documents



57 M documents
classified in the CPC

Publications with allocations from national offices

Country	Country Code	Total Number of Bibliographic Data Records (source: EPODOC on 05/02/2020)	Overall Number of publications classified in CPC (Family level)	Number of publications classified by the national office
Australia (14 Feb 2020)	AU	1.500.883	4.372	3.775 (1.966 WO and 1.809 AU)
Austria	AT	1.008.631	723.590	11.530
Brazil	BR	740.900	508.861	25.536
China	CN	20.632.269	6.903.470	4.420.981
Czech Republic	CZ	95.434	45.135	1.099
EAPO	EA	54.606	49.101	3.569
Finland	FI	197.351	119.187	9.862
Greece	GR	101.097	54.600	7.025
Israel	IL	109.538	95.471	1.218
Korea	KR	4.153.209	2.748.463	1.774.957
Mexico	MX	317.703	290.397	1.567
Norway	NO	208.845	182.975	9.512
Portugal	PT	131.318	120.947	575
Russian Fed.	RU	1.088.882	353.414	131.475
Spain	ES	1.412.323	735.927	38.190
Sweden	SE	523.374	336.137	145.431
Switzerland	CH	719.173	580.443	3.544
United Kingdom	GB	2.409.191	2.153.523	159.961
	TOTAL	<u>33.903.844</u>	<u>16.001.641</u>	<u>6.746.032</u>

2020 events where CPC will be presented

- **7th CPC Annual meeting with National Offices**, 18 February 2020, (WIPO) Geneva, Switzerland
 - **CPC Annual meeting with Industry**, 20 March 2020, EPO Vienna
 - **Patent Information Users Group (PIUG)** 2020 annual conference, 26-30 April 2020, Orlando, Florida, United States
-

CPC Update

CPC Release Schedule

- Four releases per year
- Announced under "Latest News" section on www.cpcinfo.org

- Four CPC releases in **2020**:
 - 1 January 2020 CPC 2020.01
 - 1 February 2020** **CPC 2020.02**
 - 1 May 2020 CPC 2020.05
 - 1 August 2020 CPC 2020.08

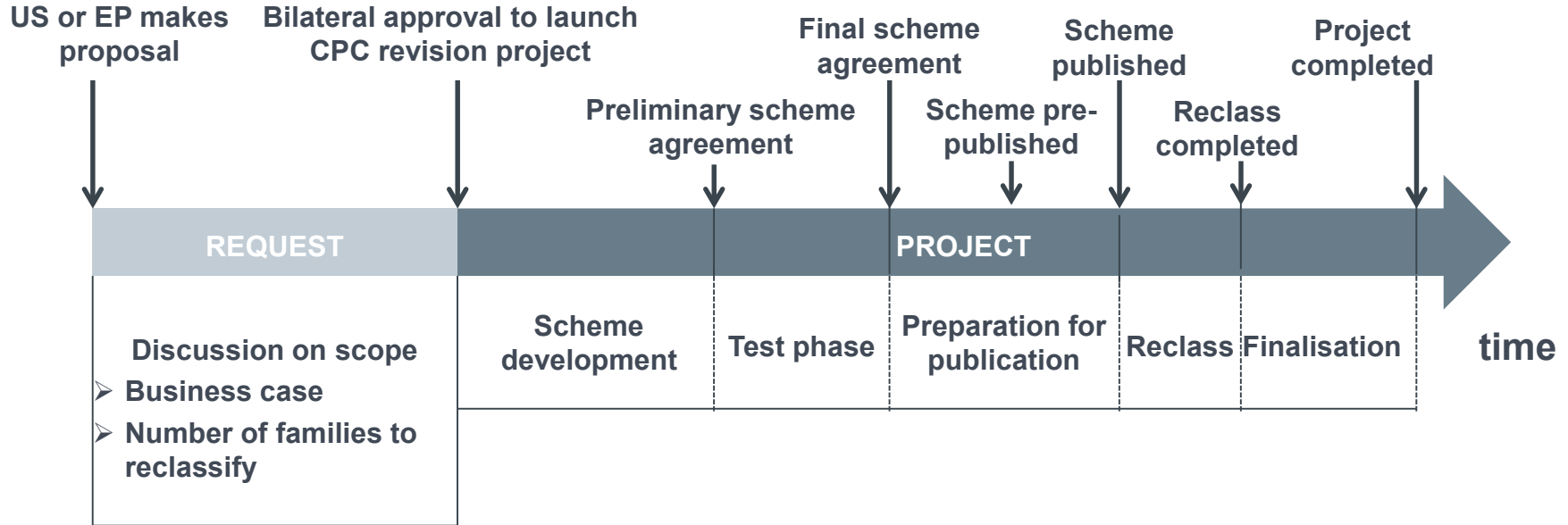
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Sitemap

The screenshot shows the CPC website. On the left, a list of CPC codes is displayed: F16M11/2021, F16M11/2028, F16M11/2035, F16M11/2042, F16M11/205, F16M11/2057, F16M11/2064, F16M11/2071, and F16M11/2078. Each code is followed by a description in brackets. On the right, there is a 'News' section dated 20 September 2019, which states that in 2020 newly scheduled CPC releases will enter into force on: 1 January (CPC 2020.01), 1 February (CPC 2020.02), 1 May (CPC 2020.05), and 1 August (CPC 2020.08). The 'Latest news' link in the left sidebar and the 'News' section are highlighted with red boxes.

The CPC revision process



How can I see that a symbol has been revised?



Europäisches
Patentamt
European
Patent Office
Office européen
des brevets

Espacenet
Patent search

Deutsch English Français
Contact
Change country ▼

« About Espacenet Other EPO online services ▼

Search Result list My patents list (0) Query history Settings Help

Smart search
Advanced search
Classification search

Quick help —

- What is the Cooperative Patent Classification system?
- How do I enter classification symbols?
- What do the different buttons mean?
- Can I retrieve a classification using keywords?
- Can I start a new search using the classifications listed?
- Where can I view the description of a particular CPC class?
- What is the meaning of the stars in front of the classifications found?
- What does the text in brackets mean?

Selected classifications
nothing selected
Find patents
Copy to search form

Cooperative Patent Classification

Search for Search View section | Index | **A** **B** C D E F G H Y

« B33 B33Y10/00 »

Symbol	Classification and description	
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING [2018-05]	 
SHAPING [2013-01]		
<input type="checkbox"/> B33	ADDITIVE MANUFACTURING TECHNOLOGY [2015-01]	←
<input type="checkbox"/> B33Y	ADDITIVE MANUFACTURING, i.e. MANUFACTURING OF THREE-DIMENSIONAL [3-D] OBJECTS BY ADDITIVE DEPOSITION, ADDITIVE AGGLOMERATION OR ADDITIVE LAYERING, e.g. BY 3-D PRINTING, STEREO LITHOGRAPHY OR SELECTIVE LASER SINTERING [2015-01]	←   
<input type="checkbox"/> B33Y 10/00	Processes of additive manufacturing [2015-01]	← 
<input type="checkbox"/> B33Y 30/00	Apparatus for additive manufacturing; Details thereof or accessories therefor [2015-01]	← 
<input type="checkbox"/> B33Y 40/00	Auxiliary operations or equipment, e.g. for material handling [2015-01]	← 
▼ <input type="checkbox"/> B33Y 50/00	Data acquisition or data processing for additive manufacturing [2015-01]	← 
<input type="checkbox"/> B33Y 70/00	Materials specially adapted for additive manufacturing [2015-01]	← 
<input type="checkbox"/> B33Y 80/00	Products made by additive manufacturing [2015-01]	← 
<input type="checkbox"/> B33Y 99/00	Subject matter not provided for in other groups of this subclass [2015-01]	←

Cooperative Patent Classification

Search for View section Index **A** **B** C D E F G H Y

Search

[View section](#) | [Index](#)

A	B	C	D	E	F	G	H	Y
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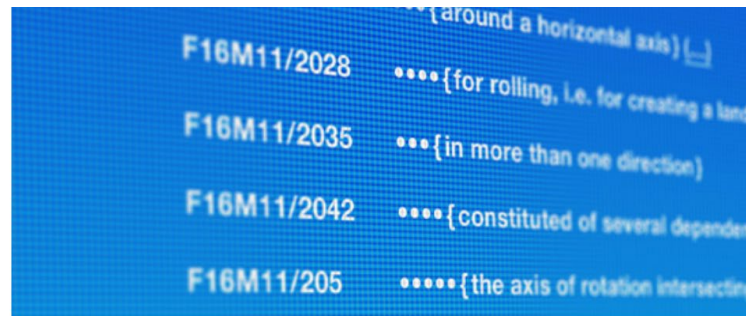
Symbol	Classification	2019			2019		
<input type="checkbox"/> B	PERFORMING	JAN	FEB	MAR	JAN	FEB	MAR
	SEPARATING	APR	MAY	JUN	APR	MAY	JUN
<input type="checkbox"/> B01	PHYSICAL OR	JUL	AUG	SEP	JUL	AUG	SEP
<input type="checkbox"/> B02	CRUSHING, P FOR MILLING	OCT	NOV	DEC	OCT	NOV	DEC
<input type="checkbox"/> B03	SEPARATION JIGS; MAGNE MATERIALS	Notice of changes + Select single month					
<input type="checkbox"/> B04	CENTRIFUGAL APPARATUS OR MACHINES FOR CARRYING-OUT PHYSICAL OR CHEMICAL PROCESSES [2019-05]	←					
<input type="checkbox"/> B05	SPRAYING OR ATOMISING IN GENERAL; APPLYING LIQUIDS OR OTHER FLUENT MATERIALS TO SURFACES, IN GENERAL [2019-05]	←					
<input type="checkbox"/> B06	GENERATING OR TRANSMITTING MECHANICAL VIBRATIONS IN GENERAL [2013-01]						
<input type="checkbox"/> B07	SEPARATING SOLIDS FROM SOLIDS; SORTING [2019-05]	←					
<input type="checkbox"/> B08	CLEANING [2013-01]						
<input type="checkbox"/> B09	DISPOSAL OF SOLID WASTE; RECLAMATION OF CONTAMINATED SOIL [2019-05]	←					
	SHAPING [2013-01]						
<input type="checkbox"/> B21	MECHANICAL METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL [2019-05]	←					
<input type="checkbox"/> B22	CASTING; POWDER METALLURGY [2013-01]						

In which areas are projects running?

- For the **public**, the list of active projects can be retrieved from cpcinfo.org
- Offices** interested in following CPC revisions are encouraged to make the necessary **SAML** (single sign-on) developments to access the CEF.

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Ongoing CPC Projects

The CPC areas currently undergoing maintenance (MP) or revision (RP) are listed in the table below together with the corresponding project number. Once finalized, the outcome of these projects will be summarized in a Notice of Change to be published one to two months before the corresponding changes are implemented in the CPC Scheme.

Project number	Status	CPC	Title
RP0174	active	A01H1/00-1/08;5/00-5/12	Flowering Plants
MP0465	active	A01K1	Animal transportation
RP0258	active	A01K73/00,75/00,77/00,83/00,85/00,87/00	Angling
MP0460	active	A41D31/04;A61B5/0464	[IPC2020.01] M625/A.6 Changes to titles of two groups
RP0364	active	A47G	Picture frames

How can I look at the details of the changes?

Contained in the **CPC Notices of Changes (NoCs)**

- PDF/XML documents containing all the details of the changes
- Available one month prior to the entry into force of a new version of the CPC Scheme

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CPC 2019.08:

- [CPC Notice of Changes 704-RP0151 \(H01L\)](#)
- [CPC Notice of Changes 705-MP0413 \(H04N\)](#)
- [CPC Notice of Changes 706-RP0345 \(C12Q\)](#)

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE
CPC NOTICE OF CHANGES 704
DATE: AUGUST 1, 2019
PROJECT RP0151

The following classification changes will be effected by this Notice of Changes:

Action	Subclass	Example
SCHEMATIC		
• Deleted Schematic	H01L	31:26213, 31:26214, 31:26215
• Deleted View	H01L	30:4013, 30:4014, 30:4015, 30:4016, 30:4017
• Deleted Claim	H01L	31:04, 31:05
• Deleted View	H01L	30:401, 30:4011, 30:40111, 30:4011A, 30:40117
DEFINITIONS		
• Definition Modification	H01L	31:04, 31:05

No other subclass/group are impacted by this Notice of Changes.

This Notice of Changes includes the following (Check the ones included):

1. CLASSIFICATION SCHEME CHANGES
 - ☒ A. New, Modified or Deleted Group(s)
 - ☒ B. New, Modified or Deleted Wording(s)
 - ☐ C. New, Modified or Deleted Note(s)
 - ☐ D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS
 - ☒ A. New or Modified Definitions (Full definition template)
 - ☐ B. Modified or Deleted Definitions (Definitions Quick Fix)
3. ☒ REVISION CONCORDANCE LIST (RCL)
4. ☒ CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CCL)
5. ☐ CHANGES TO THE CROSS-REFERENCE LIST (CRL)

NoC for RP0151 (H01L) – structure – cover sheet

Bookmarks

🔖 Coversheet

🔖 1. CLASSIFICATION SCHEME CHANGES

- 🔖 A. New, Modified or Deleted Group(s)
- 🔖 B. New, Modified or Deleted Warning(s)

🔖 2. A. DEFINITIONS (modified)

🔖 3. REVISION CONCORDANCE LIST (RCL)

🔖 4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE
CPC NOTICE OF CHANGES 704
DATE: AUGUST 1, 2019
PROJECT RP0151

The following classification changes will be effected by this Notice of Changes:

Action	Subclass	Group(s)
SCHEME:		
Symbols Deleted:	H01L	21/28273, 21/28282, 21/28291
Symbols New:	H01L	29/4011, 29/40111, 29/40114, 29/40117
Titles Changed:	H01L	21/04, 21/28
Warnings New:	H01L	29/401, 29/4011, 29/40111, 29/40114, 29/40117
DEFINITIONS:		
Definitions Modified:	H01L	21/04, 21/28

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following (Check the ones included):

1. CLASSIFICATION SCHEME CHANGES
 - ☒ A. New, Modified or Deleted Group(s)
 - ☒ B. New, Modified or Deleted Warning(s)
 - ☐ C. New, Modified or Deleted Note(s)
 - ☐ D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS
 - ☒ A. New or Modified Definitions (Full definition template)
 - ☐ B. Modified or Deleted Definitions (Definitions Quick Fix)
3. ☒ REVISION CONCORDANCE LIST (RCL)
4. ☒ CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

NoC for RP0151 – Revision Concordance List (RCL)

Bookmarks

Coversheet

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

B. New, Modified or Deleted Warning(s)

2. A. DEFINITIONS (modified)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

CPC NOTICE OF CHANGES 704

DATE: AUGUST 1, 2019

PROJECT RP0151

3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L21/28273	<administrative transfer to H01L29/40114>
D	H01L21/28282	<administrative transfer to H01L29/40117>
D	H01L21/28291	<administrative transfer to H01L29/40111>
C	H01L29/401	H01L29/401, H01L29/4011, H01L29/40111, H01L29/40114, H01L29/40117

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transfer into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification.

European Patent Office

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Past NoCs are searchable!

Cooperative Patent Classification

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CPC 2019.02:

- [CPC Notice of Changes 394-MP0314 \(various\)](#)
- [CPC Notice of Changes 525-MP0393 \(G06F\)](#)
- [CPC Notice of Changes 638-RP0586 \(F02M\)](#)
- [CPC Notice of Changes 639-RP0542 \(various\)](#)
- [CPC Notice of Changes 640-RP0571 \(B65D\)](#)
- [CPC Notice of Changes 641-RP0578 \(various\)](#)

Searchable NoC archive

Latest Publication: 2019.02

Publication Date ▾	Project Number ↕	NoC # ▾	Scope ↕
2019.02	RP0126-F	653	B64C
2019.02	RP0568	652	B2AC, B01D, B7AK

2019.02	RP0572	651	F2
2019.02	RP0565	650	B6
2019.02	RP0569	649	C1
2019.02	MP0414	648	C1
2019.02	RP0573	647	G0
2019.02	RP0557	646	HC
2019.02	RP0566	645	A4

Latest Publication: 2019.02			
Publication Date ↕	Project Number ↕	NoC # ↕	Scope ^
2018.02	RP0485	472	A01B, A01D, A01G, C05F, C12N, E01C
2015.01	RP0119	59	A01G
2016.05	MP0189	200	A01G, A01K, B65F
2019.02	RP0578	641	A01G, C12N
2018.05	RP0484	501	A01H
2018.05	MP0353	508	A01K
2018.02	DP0187	457	A01K
2017.01	RP0414	352	A01K
2015.05	RP0020	79	A01K
2018.05	MP0354	509	A01M
2018.01	MP0397	468	A21D
2017.01	RP0412	355	A21D
2016.11	MP0156	286	A21D

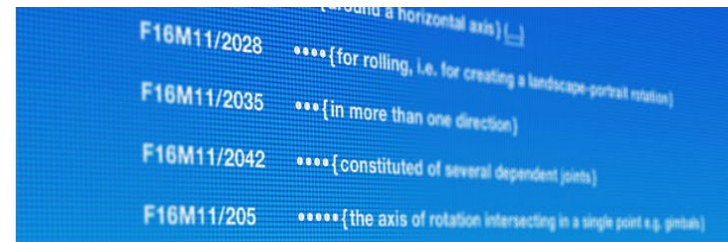
CPC Notices of Changes (NoC) publications:

2019 NOC PUBLICATION	RP	DP	MP	TOTAL
JANUARY	41	8	32	81
FEBRUARY	15	0	3	18
MAY	36	4	10	50
AUGUST	15	3	14	32
2020 NOC PUBLICATION	RP	DP	MP	TOTAL
JANUARY	54	12	5	71
FEBRUARY	9	2	1	12
MAY (in process)	54	3	13	70
AUGUST				

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CPC Revisions

In this area, information regarding changes made to the CPC scheme will be published in the form of "Notice of Changes" (formerly know as CPC Classification orders).

Information will also be provided about ongoing CPC Scheme revision projects.

Under the navigation title "Pre-release", as of May 2014, material such as the scheme, notices of changes, concordances, will be made available to the public **about one month ahead of official entry into force** of the corresponding material.

Search Enter search term



Projects completed in 2019-2020:

Row Labels	Count of Project Type
2019.01	81
DP	8
MP	32
RP	41
2019.02	18
MP	3
RP	15
2019.05	50
DP	4
MP	10
RP	36
2019.08	32
DP	3
MP	14
RP	15
2020.01	71
DP	12
MP	5
RP	54
2020.02	12
DP	1
MP	2
RP	9
Grand Total	264

Additional files available after the list of NoCs

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- [CPC Notice of Changes 706-RP0345 \(C12Q\)](#)
- ...
- [CPC Notice of Changes 732-MP0441 \(various\)](#)
- [CPC Notice of Changes 733-MP0445 \(various\)](#)
- [CPC Notice of Changes 734-MP0446 \(various\)](#)
- [CPC Notice of Changes 735-MP0303 \(G06F\)](#)
- [Notice of Editorial Corrections August 2019](#)
- [Notice of Change of XML Artefacts August 2019](#)
- [CPC Compilation of Changes August 2019](#)

CPC 2019.05:

- [CPC Notice of Changes 654-RP0100 \(G11B\)](#)

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE
NOTICE OF EDITORIAL CORRECTIONS
PUBLICATION DATE: August 1, 2019

Summary of Editorial Corrections

The following corrections have been made to errors found late in the processing of CPC projects issued in [add publication dates here]. Additional minor corrections to the scheme and definitions not associated with CPC projects are also included.

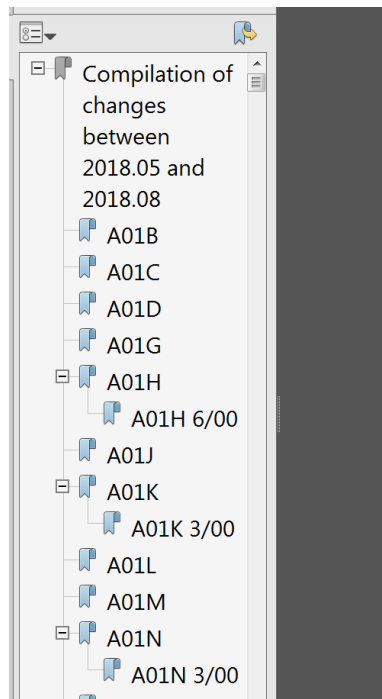
CORRECTIONS FROM 2019.05 PROJECTS:

RP0129 Definition Corrections									
Location	Correction								
A61M35/00	DELETE: the following table rows from the Limiting References section: <table><tr><td>Bathing devices, in general</td><td>A61H33/00</td></tr><tr><td>Baths for specific parts of the body, in general</td><td>A61H35/00</td></tr><tr><td>Apparatus for applying media using vibrations</td><td>A61M37/0092</td></tr><tr><td>Apparatus for iontophoresis</td><td>A61N1/30</td></tr></table>	Bathing devices, in general	A61H33/00	Baths for specific parts of the body, in general	A61H35/00	Apparatus for applying media using vibrations	A61M37/0092	Apparatus for iontophoresis	A61N1/30
Bathing devices, in general	A61H33/00								
Baths for specific parts of the body, in general	A61H35/00								
Apparatus for applying media using vibrations	A61M37/0092								
Apparatus for iontophoresis	A61N1/30								
	INSERT: the following table rows into the Informative References section: <table><tr><td>Bathing devices, in general</td><td>A61H33/00</td></tr><tr><td>Baths for specific parts of the body, in general</td><td>A61H35/00</td></tr><tr><td>Apparatus for applying media using vibrations</td><td>A61M37/0092</td></tr><tr><td>Apparatus for iontophoresis</td><td>A61N1/30</td></tr></table>	Bathing devices, in general	A61H33/00	Baths for specific parts of the body, in general	A61H35/00	Apparatus for applying media using vibrations	A61M37/0092	Apparatus for iontophoresis	A61N1/30
Bathing devices, in general	A61H33/00								
Baths for specific parts of the body, in general	A61H35/00								
Apparatus for applying media using vibrations	A61M37/0092								
Apparatus for iontophoresis	A61N1/30								

Name	Type
Documentation	File folder
RP0144-cid.xml	XML Document
RP0144-rc.xml	XML Document
RP0151-cid.xml	XML Document
RP0151-rc.xml	XML Document
RP0211-cid.xml	XML Document
RP0211-rc.xml	XML Document
RP0238-cid.xml	XML Document
RP0238-rc.xml	XML Document

CPC compilation of changes (1/2)

2018.08



Compilation of changes to the CPC Scheme between 2018.05 and 2018.08

Presentation details

Entries for new symbols and headings

Black text in italics

Entries for existing symbols and headings

—text insertions

Green text in italics with yellow background

—text deletions

~~Red strikethrough text with grey background~~

Entries for deleted symbols and headings

~~Black strikethrough text~~

- In cases where the originating project could not be found, "N/A" is given for the Project information (e.g. the change could be due to an Editorial Correction).
- Projects ending in "-F" indicate finalisation after reclassification was completed.

Project: N/A (A01B)

A01B

SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting, or manuring [A01C 5/00](#); soil working for engineering purposes [E01](#), [E02](#), [E21](#);

CPC compilation of changes (2/2)

Project: [RP0290](#) (F16B)

- C F16B 17/00 Connecting constructional elements or machine parts by a part of or on one member entering a hole in the other *{and involving plastic deformation}* (~~construction of pins, bolts or rivets F16B 19/00; riveting F16B 19/04; means for preventing withdrawal of a pin, spigot or the like from its operative position, stud and socket releasable fastenings F16B 21/00~~)
- WARNING*
- Group F16B 17/00 is impacted by reclassification into groups F16B 9/02, F16B 9/05 - F16B 9/09.*
- All groups listed in this Warning should be considered in order to perform a complete search.*
- D F16B 17/002
- <administratively transferred to [F16B 17/00](#)>
 - ~~{Non-releasable connections, i.e. by means of plastic deformation}~~
- M F16B 17/004
- ~~-~~ {of rods or tubes mutually}
- E F16B 17/006
- ~~-~~ {of rods or tubes to sheets or plates}
- M F16B 17/008
- ~~-~~ {of sheets or plates mutually} *{joining sheets by riveting without the use of separate rivets F16B 5/045}*

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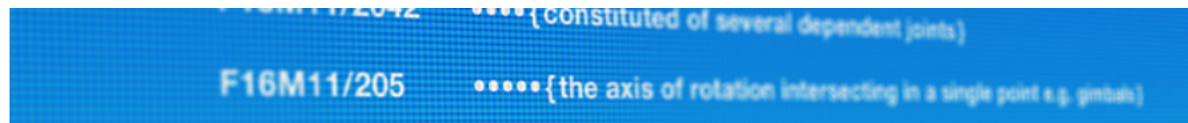
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Pre-release

In this area of the website, CPC related material such as scheme files, notices of changes, concordances, etc, will be published **about one month before official entry into force** of this material.

The publication of the pre-released material started on 6 May 2014 concerning the June 2014 CPC scheme version (2014-06).

The pre-release will normally happen on the first Tuesday of a given month (for example Tuesday 6 May 2014) for entry into force on the first day of the following month (for example 1 June 2014).

2 July 2019: 2019.08 pre-released material:

- 2019.08 CPC Scheme in [PDF](#) and in [XML](#)
- 2019.08 CPC to IPC concordance in [PDF](#), [XML](#) and [TXT](#)
- Notices of Changes related to the "2019.08 CPC Scheme":
 - [CPC Notice of Changes 704-RP0151 \(H01L\)](#)
 - [CPC Notice of Changes 705-MP0413 \(H04N\)](#)

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[CPC Compilation of Changes \(2019.08\)](#)

[Complete CPC scheme in XML format \(2019.08\)](#)

[Complete CPC scheme in PDF format \(2019.08\)](#)

CPC revisions – bulk data - list of valid CPC symbols (2019.08)

.csv → .xls

SYMBOL	Level	Breakdown-code	Not-allocatable	Additional-only	Sort-key	Status	
A	2	FALSE	TRUE	FALSE	A	published	
A01	4	FALSE	TRUE	FALSE	A01	published	
A01B	5	FALSE	TRUE	FALSE	A01B	published	
A01B 1/00	7	FALSE	FALSE	FALSE	A01B 1/00	published	
A01B 1/02	8	FALSE	FALSE	FALSE	A01B 1/02	published	
A01B 1/022	9	FALSE	FALSE	FALSE	A01B 1/022	published	
A01B 1/024	9	FALSE	FALSE	FALSE	A01B 1/024	published	
A01B 1/026	9	FALSE	FALSE	FALSE	A01B 1/026	published	
A01B 1/028	9	FALSE	FALSE	FALSE	A01B 1/028	published	
A01B 1/04	9	FALSE	FALSE	FALSE	A01B 1/04	published	
A01B 1/06	8	FALSE	FALSE	FALSE	A01B 1/06	published	
A01B 1/065	9	FALSE	FALSE	FALSE	A01B 1/065	published	

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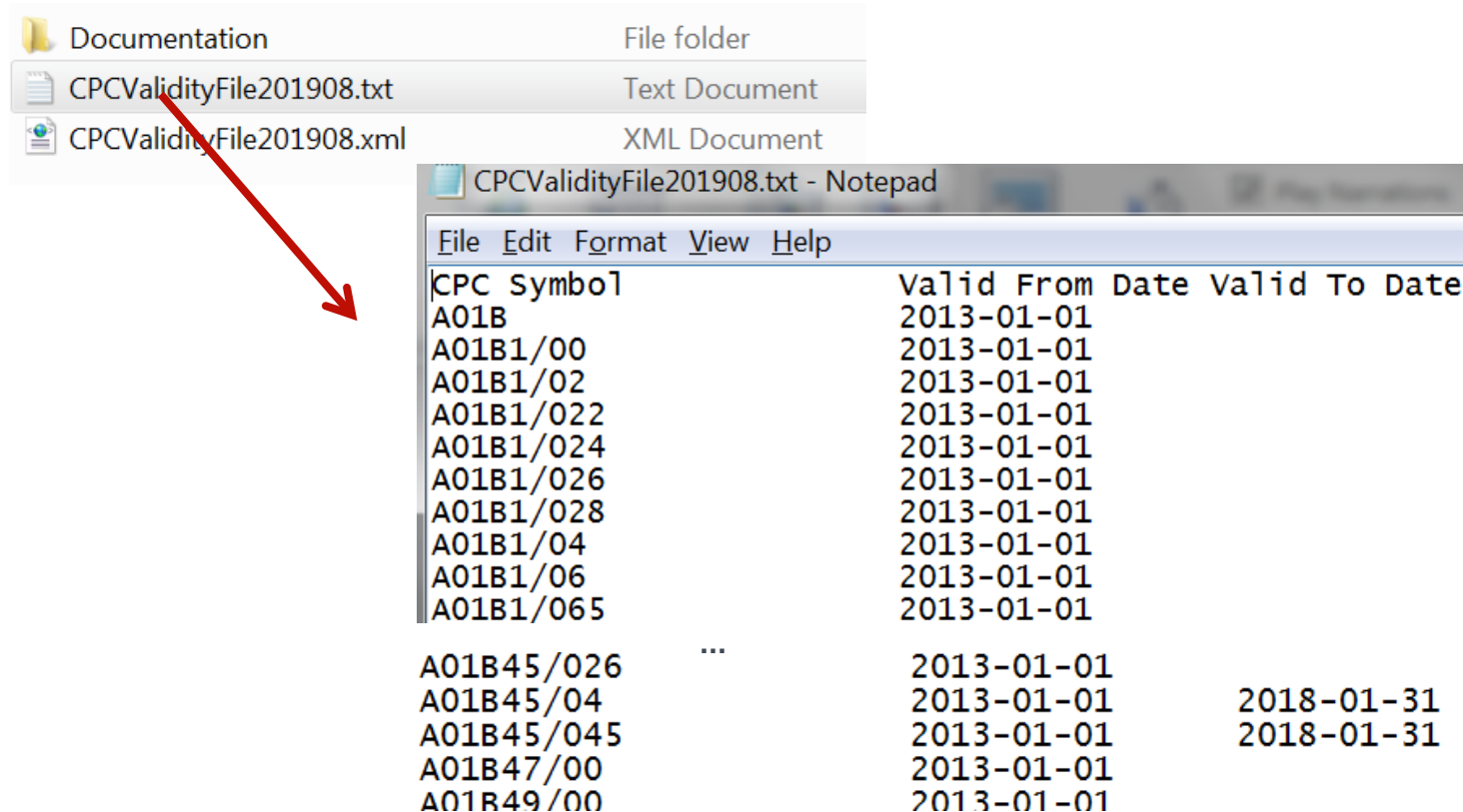
[Revision Concordance List \(RCL\) and CPC to IPC Concordance List \(CICL\) per project \(2019.08\)](#)

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CPC revisions – bulk data - CPC validity file



The image shows a file explorer window with a folder named 'Documentation' containing two files: 'CPCValidityFile201908.txt' (Text Document) and 'CPCValidityFile201908.xml' (XML Document). A red arrow points from the XML file to a Notepad window titled 'CPCValidityFile201908.txt - Notepad'. The Notepad window displays the following table:

CPC Symbol	Valid From Date	Valid To Date
A01B	2013-01-01	
A01B1/00	2013-01-01	
A01B1/02	2013-01-01	
A01B1/022	2013-01-01	
A01B1/024	2013-01-01	
A01B1/026	2013-01-01	
A01B1/028	2013-01-01	
A01B1/04	2013-01-01	
A01B1/06	2013-01-01	
A01B1/065	2013-01-01	
...		
A01B45/026	2013-01-01	
A01B45/04	2013-01-01	2018-01-31
A01B45/045	2013-01-01	2018-01-31
A01B47/00	2013-01-01	
A01B49/00	2013-01-01	

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CPC Definitions in PDF format (Last updated 1 August 2019)

- For the A section: [A01B-A45F](#); [A46B-A63K](#)
- For the B section: [B01B-B29B](#); [B29C-B65C](#); [B65D-B82Y](#)
- For the [C section](#)
- For the [D section](#)
- For the [E section](#)
- For the [F section](#)
- For the [G section](#)
- For the [H section](#)



CPC Definitions in XML format (Last updated 1 August 2019).

- For the A section: [A01B-A45F](#); [A46B-A63K](#)
- For the B section: [B01B-B29B](#); [B29C-B65C](#); [B65D-B82Y](#)
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How do I know which collections to search during reclassification?

NoC of RP0151 (H01L):

D	H01L21/28282	5	(H01L 21/28291 takes precedence) {comprising a charge trapping insulator}	<administrative transfer to H01L29/40117>
D	H01L21/28291	5	{comprising a layer which is used for its ferroelectric properties}	<administrative transfer to H01L29/40111>
C	H01L29/401	2	{Multistep manufacturing processes}	H01L29/401, H01L29/4011, H01L29/40111, H01L29/40114, H01L29/40117
N	H01L29/4011	3	{for data storage electrodes}	
N	H01L29/40111	4	{the electrodes comprising a layer which	

Finding revision information ...

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« H01L28/00

Symbol	Classification and description
--------	--------------------------------

▲ ☐ **H01L 29/00** Semiconductor devices adapted for rectifying, amplifying, oscillating or switching, or capacitors or resistors with at least one potential-jump barrier or surface barrier, e.g. PN junction depletion layer or carrier concentration layer; Details of semiconductor bodies or of electrodes thereof; {Multistep manufacturing processes therefor} (H01L 31/00 - H01L 47/00, H01L 51/05 take precedence; processes or apparatus adapted for the manufacture or treatment thereof or of parts thereof H01L 21/00; details other than of semiconductor bodies or of electrodes thereof H01L 23/00; devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00; {passive two-terminal components without a potential-jump or surface barrier for integrated circuits, details thereof and multistep manufacturing processes therefor H01L 28/00; } resistors in general H01C; capacitors in general H01G, {e.g. ceramic barrier-layer capacitors H01G 4/1272}) [2016-05]

☐ **H01L 29/40** • Electrodes {Multistep manufacturing processes therefor} [2017-08]

☐ **H01L 29/401** •• {Multistep manufacturing processes} [2019-08]

☐ **H01L 29/4011** ••• {for data storage electrodes} [2019-08]

☐ **H01L 29/40111** •••• {the electrodes comprising a layer which is used for its ferroelectric properties} [2019-08]

☐ **H01L 29/40114** •••• {the electrodes comprising a conductor-insulator-conductor-insulator-semiconductor structure} [2019-08]

☐ **H01L 29/40117** •••• {the electrodes comprising a charge-trapping insulator} [2019-08]


... the importance of Warnings!

Search for View section | [Index](#) | [A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#)






Navigation icons:

« H01L28/00 H01L

Symbol	Classification and description
	<p>Notes</p> <p>i In this main group, classification is made both in groups H01L29/02 - H01L29/51 and in groups H01L29/66 - H01L29/94 if both of these sets of groups are relevant.</p>
<input type="checkbox"/> H01L 29/40	• Electrodes [; Multistep manufacturing processes therefor] [2017-08]
<input type="checkbox"/> H01L 29/401	•• [Multistep manufacturing processes] [2019-08]
	<p>Warnings</p> <p>w Group H01L29/401 is impacted by reclassification into groups H01L29/4011, H01L29/40111, H01L29/40114 and H01L29/40117. Groups H01L29/401, H01L29/4011, H01L29/40111, H01L29/40114 and H01L29/40117 should be considered in order to perform a complete search.</p>



... also in the destination groups

Symbol	Classification and description	
<input type="checkbox"/> H01L 29/401	•• {Multistep manufacturing processes} [2019-08]	
Source group	Warnings  Group <u>H01L29/401</u> is impacted by reclassification into groups <u>H01L29/4011</u> , <u>H01L29/40114</u> and <u>H01L29/40117</u> . Groups <u>H01L29/401</u> , <u>H01L29/4011</u> , <u>H01L29/40114</u> and <u>H01L29/40117</u> should be considered in order to perform a complete search.	
<input type="checkbox"/> H01L 29/4011	••• {for data storage electrodes} [2019-08]	
Destination group	Warnings  Group <u>H01L29/4011</u> is incomplete pending reclassification of documents from group <u>H01L29/401</u> . Group <u>H01L29/401</u> and <u>H01L29/4011</u> should be considered in order to perform a complete search.	
<input type="checkbox"/> H01L 29/40111	•••• {the electrodes comprising a layer which is used for its ferroelectric properties} [2019-08]	

When do I know that reclassification is completed?

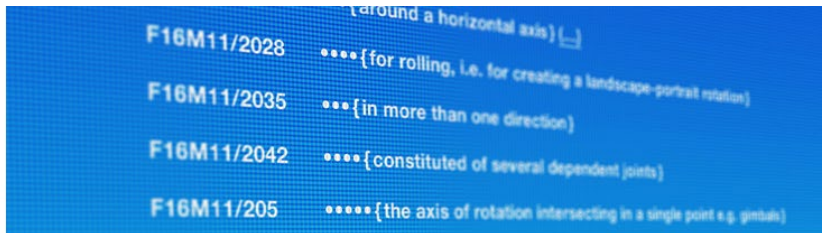
- When reclassification is completed ...
 - the **old**, empty **symbols** are **deleted**
 - All the corresponding **warnings** (source and destination) are **deleted**
- **No warning** means that the **inventories** of a symbol **are complete**

CPC Annual Report 2017/2018

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Publications

In this section, information material is available for download.

Search Enter search term



Combination Sets (C-Sets)

- The **list of authorized areas** for classification with C-Sets has been **revised in February 2020** with additional classification practice information
 - An extra table has been added showing CPC ranges in the polymers' area where C-Sets are not used for font file classification by can still be **used for search**.
 - **Projects to harmonize detailed definitions** for the use of C-Sets in the area of polymers such as C08F, C08G, C08K, C08L, C09D, C09J have been completed.
 - **Projects to clean wrong information** on C-Sets in the non-authorized areas have been completed.
-

Combination Sets (C-Sets)

Updated list of subclasses where combination sets are authorised **published:**

CPC Sections	A	B	C	D	E	F	G	H
CPC Subclasses:	A01N	B01D	C04B	D07B	None		G01N	H01L
	A23G	B01J	C05B				G02B	
	A23V	B05D	C05D					
	A61K	B22F	C05F					
	A61L	B29C	C05G					
	A61M	B32B	C07C					
		B65H	C08F					
			C08G					
			C08K					
			C08L					
			C09D					
			C09J					
			C10M					
			C12N					
			C12Q					
<div>Published in January and February 2020</div>								

**Published in January
and February 2020**

Use of C-Sets in Notes in the scheme

C08F MACROMOLECULAR COMPOUNDS OBTAINED BY REACTIONS ONLY INVOLVING CARBON-TO-CARBON UNSATURATED BONDS

NOTES

1. In this subclass, boron or silicon are considered as metals.
2. In this subclass, the following expression is used with the meaning indicated:
 - "aliphatic radical" means an acyclic or a non-aromatic cyclic radical.
- every bond to:
 - a. an element other than carbon;
 - b. a carbon atom having a double bond to one of the atoms of the radical;
 - c. an aromatic carbocyclic ring or a heterocyclic ring.
- Examples: Polymers of
 - a. $\text{CH}_2=\text{CH}-\text{O}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{CO}$
 - b. $\text{CH}_2=\text{CH}-\text{C}(=\text{O})-\text{CH}=\text{CH}_2$ are classified in [C08F 210/00](#)
 - c. $\text{para-C}_6\text{H}_4\text{Cl}(\text{CH}=\text{CH}_2)$ are classified in [C08F 210/00](#)
3. Therapeutic activity of compounds is further classified in [C08F 210/00](#)
4. In this subclass, the last place priority rule is applied. If a compound is classified in the subclass contrary, a catalyst or a polymer is classified in the subclass [C08F 210/00](#)
5. In this subclass:
 - a. macromolecular compounds and their preparation processes for the preparation of macromolecular compounds are classified in the groups [C08F 2/00](#)-[C08F 8/00](#) for the processes and [C08F 10/00](#)-[C08F 38/00](#) for the types of reactions employed, if of interest;
 - b. subject matter relating to both homopolymers and copolymers is classified in groups [C08F 10/00](#)-[C08F 38/00](#);
 - c. subject matter limited to homopolymers is classified only in groups [C08F 110/00](#)-[C08F 138/00](#);
 - d. subject matter limited to copolymers is classified only in groups [C08F 210/00](#)-[C08F 246/00](#);
 - e. in groups [C08F 210/00](#)-[C08F 238/00](#), in the absence of an indication to the contrary, a copolymer is classified according to the major monomeric component.
6. This subclass covers also compositions based on monomers which form macromolecular compounds classifiable in this subclass. In this subclass:
 - a. if the monomers are defined, classification is made according to the polymer to be formed:
 - in groups [C08F 10/00](#)-[C08F 246/00](#) if no preformed polymer is present;
 - in groups [C08F 251/00](#)-[C08F 291/00](#) if a preformed polymer is present, considering the reaction to take place as a graft or cross-linking reaction;
 - b. if the presence of compounding ingredients is of interest, classification is made in group [C08F 2/44](#)
 - c. if the compounding ingredients are of interest per se, classification is also made in subclass [C08K](#).
7. {In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions}

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

C-sets notification in definition:

Combination Sets (C-Sets):

In this subclass, C-Sets classification is applied to the following groups, listed in the table below, if the document discloses a pertinent combination of technical features that cannot be covered by the allocation of a single symbol. The fourth column of the table indicates the place where the detailed information about the C-Sets construction and the associated syntax rules can be found, in the section "Special rules of classification".

C-SETS ID	BASE SYMBOLS	SUBSEQUENT SYMBOLS	C-SETS FORMULA; LOCATION OF C-SETS RULES
#C8Ka	C08K 3/00 - C08K 13/08 (excluding breakdown indexing codes)	C08L 1/00 - C08L 101/16 (excluding breakdown indexing codes)	(C08K , C08L); an additive with a single polymer; see C08K
#C8Lb	C08L 1/00 - C08L 101/16 (excluding breakdown indexing codes)	C08L 1/00 - C08L 101/16 (excluding breakdown indexing codes), C08K 3/00 - C08K 13/08 (excluding breakdown indexing codes)	(C08L , C08L , ..., C08K , ...); a composition comprising two or more polymers with additive(s); see C08L
#C8Lb(Si)	C08L 1/00 - C08L 101/16 (excluding C08L 83/02 - C08L 83/16)	C08L 83/02 - C08L 83/16 , C08L 83/00 , C08K 3/00 - C08K 13/08 (excluding breakdown indexing codes)	(C08L , C08L 83/02 - C08L 83/16 , C08L 83/00 , ..., C08K , ...); a composition comprising one non Si-based polymer in majority and two or more Si- based polymers with additive(s); see C08L
#C8Lb(Si)2	C08L 83/02 - C08L 83/16	C08L 83/00 , and optionally C08L 1/00 - C08L 101/16 , (excluding C08L 83/02	(C08L 83/02 - C08L 83/16 , C08L 83/00 , ..., C08L , ..., C08K , ...); a

C-sets notification in definition:

C-Sets statement : #C8Ka

- In groups [C08K 3/00](#) - [C08K 13/08](#), a composition comprising additive(s) and one polymer is classified in the form of C-Sets.
- In these C-Sets, the base symbol, representing the additive is taken from the groups [C08K 3/00](#) - [C08K 13/08](#), whereas the subsequent symbol representing the polymer combined with the additive is taken from the groups [C08L 1/00](#) - [C08L 101/16](#).

C-Sets syntax rules:

- Each of these C-Sets shall contain exactly two symbols
- Duplicate symbols are not allowed in these C-Sets.
- Breakdown and orthogonal index codes are not allowed in the C-Sets either as base symbols or as subsequent symbols.
- The order of symbols in these C-Sets is relevant as it reflects the presence of one additive and one polymer
- If a composition comprising one polymer, e.g. polymer X, and two or more additives, e.g. Additive A and B, separate C-Sets are given to each additive and the polymer X, e.g. (additive A, polymer X) and (additive B, polymer X).
- For a composition comprising one polymer and four or more essential additives, e.g. additives A, B, C, D and polymer X, a C-Set is given using C08K13/yy and separate C-Sets are given to each additive and the polymer X. For example, (C08K13/yy, polymer X), (additive A, polymer X), (additive B, polymer X), (additive C, polymer X), and (additive D, polymer X).
- If an additive within [C08K](#) is disclosed in admixture with one polymer selected from a list of several polymers, but each of those polymers does not form a blend, all exemplified combinations must be classified as separate C-Sets, e.g. polystyrene or PVC containing a carboxylic amide is separately classified in ([C08K 5/20](#), [C08L 25/06](#)) and ([C08K 5/20](#), [C08L 27/06](#)).
- In the absence of examples, at least one C-Set is given on the basis of sufficient description of the polymer and the additive in the document.
- If an additive is used in admixture with two or more polymers in a blend, the composition is classified in a form of C-Sets following C-Sets rule in [C08L](#), wherein the additive is assigned as subsequent symbol (see C-Sets #C8Lb).

C-Sets examples:

- #C8Ka: An admixture comprising carbon black ([C08K 3/04](#)) combined with butadiene-styrene rubber ([C08L 9/06](#)) is classified as ([C08K 3/04](#), [C08L 9/06](#)).
- #C8Ka: An admixture comprising glass fibers ([C08K 7/14](#)) and resorcinol phosphate ([C08K 5/523](#)) combined with nylon 6, 6 ([C08L 77/06](#)) is classified as ([C08K 7/14](#), [C08L 77/06](#)) and ([C08K 5/523](#), [C08L 77/06](#)).
- #C8Ka: An admixture of styrene-butadiene rubber with carbon black ([C08K 3/04](#)), sulfur ([C08K 3/06](#)), silica ([C08K 3/36](#)) and silane coupling agent with sulfide bridge ([C08K 5/548](#)) is classified as ([C08K 13/02](#), [C08L 9/06](#)), ([C08K 3/06](#), [C08L 9/06](#)), ([C08K 3/04](#), [C08L 9/06](#)), ([C08K 5/548](#), [C08L 9/06](#)), and ([C08K 3/36](#), [C08L 9/06](#)).

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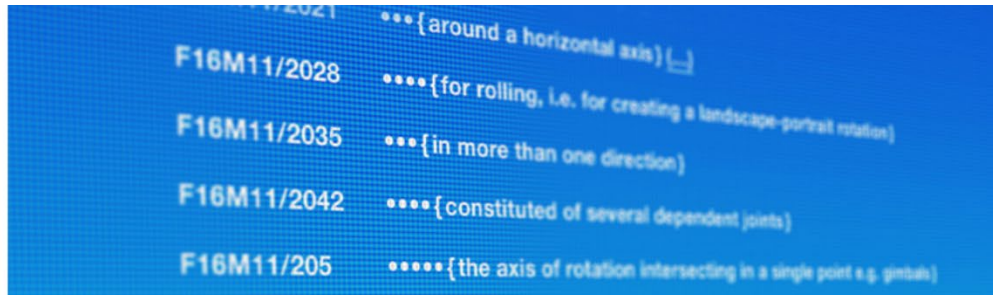
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CPC open linked Data

1. Access to the CPC data set

CPC

The linked data representation of the CPC taxonomy is provided as a single file in [N-TRIPLES](#) format compressed using GZIP.

[cpc.nt.gz](#) (45M, [checksum](#))

2. Information about the CPC data set

CPC scheme as linked open data

The CPC scheme is part of the product Linked open EP data which can be accessed here: [Open](#)

Linked data creates a public web of interlinked data that can be queried, retrieved and viewed using standardized web technologies like HTTP, URI, RDF and SPARQL.

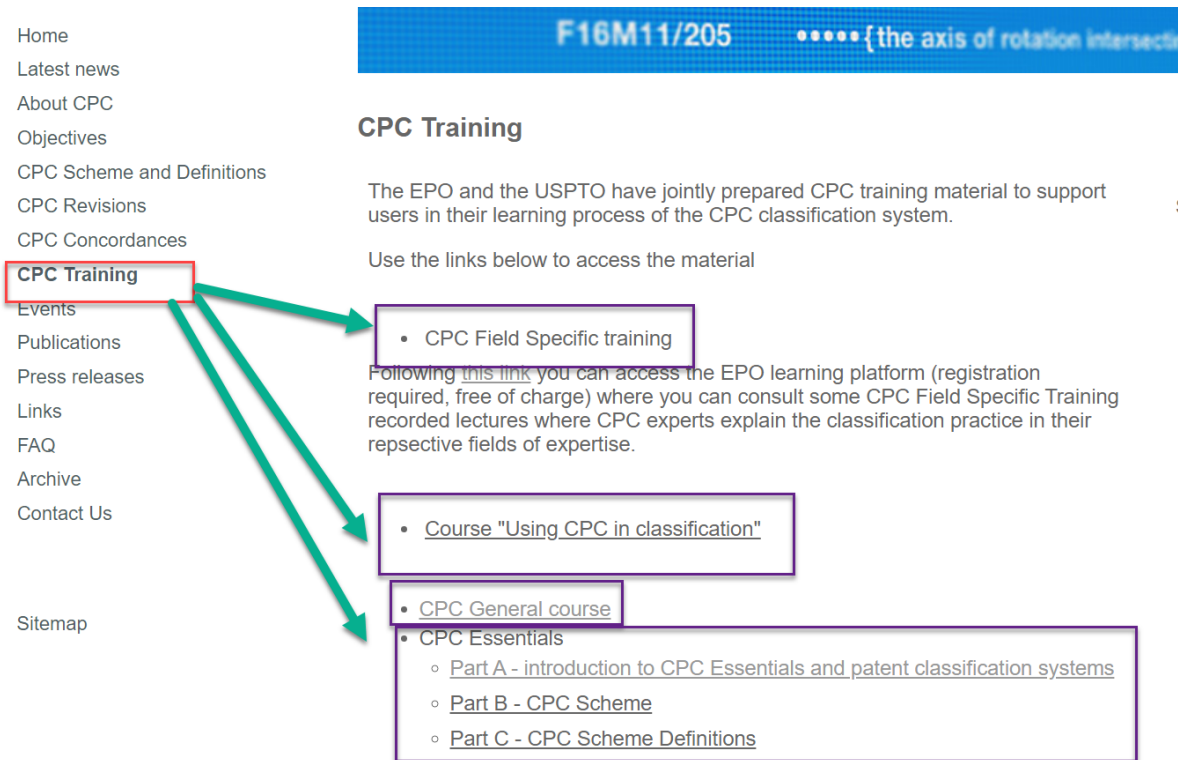
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Want to know more about CPC classification practice?

- CPC Scheme & Definitions
 - CPC General and Advanced training
 - See **e-learning modules** on the cpcinfo.org website (European Patent Academy):
 - [Using CPC in classification](#)
 - [Practical and strategic aspects of the CPC](#)
 - CPC Field-specific training material:
 - Recorded lectures on cpcinfo.org (European Patent Academy)
-

CPC training modules:



<https://www.cooperativepatentclassification.org/Training>

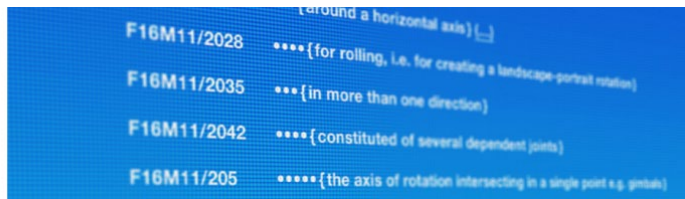
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CPC Training

The EPO and the USPTO have jointly prepared CPC training material to support users in their learning process of the CPC classification system.

Use the links below to access the material

- CPC Field Specific training

Following [this link](#) you can access the EPO learning platform (registration required, free of charge) where you can consult some CPC Field Specific Training recorded lectures where CPC experts explain the classification practice in their respective fields of expertise.

- Course "Using CPC in classification"

- [CPC General course](#)
- CPC Essentials
 - [Part A - introduction to CPC Essentials and patent classification systems](#)
 - [Part B - CPC Scheme](#)
 - [Part C - CPC Scheme Definitions](#)

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[General training on Combination Sets](#)

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CPC field-specific training: recorded lectures

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INTRODUCTION

This course consists of 24 recorded lectures in which expert examiners present their CPC technical fields. The presentations contain examples from most CPC classification sections.


RECORDED LECTURES


Here you can access the recorded presentations on specific technical fields from the CPC sections. The presentations cover the rules and criteria of classification for each field, neighbouring fields, overall structure and examples.
You can view each video in its entirety or simply watch those parts that interest you.

SECTION A

 A61N2: Magnetotherapy, A61N5: Radiation Therapy (Ewa Beck)

SECTION B

 B01J3-B01J19: Reactors (Philippe Thomasson)

 B25C: Hand-held nailing or stapling tools; Manually operated portable stapling tools (Radu David)

Course Navigation

Course main page

▼ Course content

INTRODUCTION

RECORDED LECTURES

DOWNLOADS

CPC International



Why were these changes made?

The EPO and USPTO wished:

- to **treat all CPC classification symbols** allocated by the EPO, USPTO and the other CPC Offices **equally**
- to **facilitate access** to CPC data for their examiners
- to **simplify synchronisation and conflict resolution** between the EPO and USPTO
- to **upgrade the bilateral infrastructure**

What changes are being made?


Until the end of August 2019

- All CPC classification symbols allocated by CPC Offices other than EPO and USPTO were stored at the **document level** in special **CPCNO fields**

As of 26 August 2019:

- Classification symbols allocated by all CPC offices are stored at the **simple patent family level**
- The office which allocated each symbol is visible and searchable
- “Raise Hand” flags are no longer being created
- US documents continue to be circulated to EPO examiners

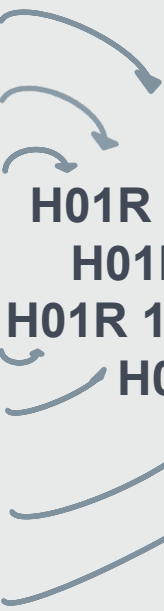
Old situation

		Document level (CPCNO)	Family level (CPC)
INPI Brazil	BR9910073	H01R 12/71	
CNIPA	CN1306684	H01R 13/65	
EPO	EP1075714	H01R 12/71 H01R 13/6581	
UKIPO	GB2353908	H01R 12/73	
KIPO	KR20010071195	H01R 13/65	
PRV	SE0003892	H01R 13/6581	
USPTO	US6206729	H01R 12/71 H01R 13/6581	

New situation

(as of 26 August 2019)

~~Document level
(CPCNO)~~ → Family level
(CPC)

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

New situation

as of 26 August 2019

Family level
(CPC)

INPI Brazil	BR9910073	<p>H01R 12/71 (EP, BR, US) H01R 13/65 (CN, KR) H01R 13/6581 (EP, SE, US) H01R 12/73 (GB)</p> <p>H01R 12/73 (GB)</p>
CNIPA	CN1306684	
EPO	EP1075714	
UKIPO	GB2353908	
KIPO	KR20010071195	
PRV	SE0003892	
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Old situation

Document level (CPCNO)

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New situation as of 26 August 2019

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UKIPO	GB2353908
KIPO	KR20010071195
PRV	SE0003892
USPTO	US6206729

**Family level
(CPC)**



New situation as of 26 August 2019

Family level
(CPC)

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

CPC International Impact on DocDB XML users

Impact on DocDB XML users (1/3)

From the point of view of DocDB XML, the **changes related to the CPC International** project are **minor**:

- **No impact** on **schema definition**
- **No impact** on the content of element **<patent-classification>**
- **Minor change** in the content of element **<classification-scheme>**
 - old : value “CPC” (EPO, USPTO) or “CPCNO” (other NO)
 - new: value “CPCI”
- **Minor change** for element **<generating-office>**
 - old: only populated when “scheme” = “CPCNO”
 - new: populated in all cases, i.e. also when the US or EP is the generating office

Impact on DocDB XML users (2/3)

Impact is low but **benefit is substantial**:

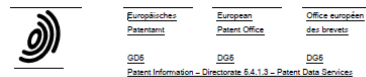
- The **office endorsing an allocation is visible in all cases**
... also when this office is the EPO or USPTO
- Allocations from all offices are treated **equally**

Impact on DocDB XML users (3/3)

- **Notification and documentation** was sent in November 2018, now part of the **official documentation**:

[http://documents.epo.org/projects/babylon/eponet.nsf/0/6266D96FAA2D3E6BC1257F1B00398241/\\$File/T09.01_ST36_User_Documentation_vs_2.5.8.1_en.pdf](http://documents.epo.org/projects/babylon/eponet.nsf/0/6266D96FAA2D3E6BC1257F1B00398241/$File/T09.01_ST36_User_Documentation_vs_2.5.8.1_en.pdf)

- Includes **sample files**



EXCHANGE FORMAT
EPO - Patent Information Resource

Exchange of Patent Information as produced by the EPO
from their master documentation database DOCDB

AUTHOR: European Patent Office
DISTRIBUTION: Exchange Partners
VERSION: 2.5.8.1
SCHEMA: exchange-documents-v2.5.8.xsd
PRODUCT-ID: T09.01
PROJECT: DOCDB XML [N]

Released and reviewed with the introduction of CPC-International

Impact on Espacenet users (1/4)

- Espacenet now displays the office(s) endorsing the CPC allocation in-between brackets next to the allocation

Bibliographic data: US2019048117 (A1) — 2019-02-14



In my patents list



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MACROMONOMER MIXTURE, TERMINAL-REACTIVE POLYMER MIXTURE, INTERMEDIATE FOR MACROMONOMER AND SILICONE HYDROGEL

Page bookmark

US2019048117 (A1) - MACROMONOMER MIXTURE, TERMINAL-REACTIVE POLYMER MIXTURE, INTERMEDIATE FOR MACROMONOMER AND SILICONE HYDROGEL

Inventor(s):

FUJISAWA KAZUHIKO [JP]; NAKAMURA MASATAKA [JP] ±

Applicant(s):

JOHNSON & JOHNSON VISION CARE [US] ±

Classification:

- international: C08F220/26; C08F220/36; C08F220/38; C08F290/02; C08F290/04; C08F8/46; C08L23/26; C08L39/06; C08L43/04

- cooperative: C08F2/38 (KR); C08F220/26 (EP, KR, US); C08F220/36 (EP, KR, US); C08F220/38 (EP, KR, US); C08F290/02 (US); C08F290/042 (US); C08F290/044 (US); C08F290/046 (US); C08F8/30 (KR); C08F8/46 (US); C08G77/04 (KR); C08G77/44 (KR); C08J3/075 (KR); C08L101/02 (KR); C08L23/26 (US); C08L39/06 (EP, KR, US); C08L43/04 (US); C08J2300/14 (KR)

Impact on Espacenet users (2/4)

- Offices can also be searched:

```
cpc=(C08F2220/1825 prox/unit=sentence EP)
```

```
cpc=(C08F2220/1825 prox/unit=sentence (US,EP) )
```

```
cpc=(C08F220/02/low prox/unit=sentence (US,KR,EP) )
```

```
cpcc=(C07C37/08 prox/unit=sentence (CN,EP,US) )
```

```
cpcc=(C08F218/08 prox/unit=sentence (C08F220/06,US,EP) )
```

- Example:

```
cpc=(C08F2220/1825 prox/unit=sentence (US,EP) )
```

Impact on Espacenet users (3/4)

Approximately **386** results found in the Worldwide database for:
cpc = C08F2220/1825 prox/unit=sentence (cpc = US and cpc = EP) using Smart search

1 ▶

Sort by Sort order

☐ 1. Addition polymers from nitrogen heterocycle containing monomers and vinyl arylcyclobutene-containing monomers

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HAYES COLIN [US] AOUDE TINA [US] (+4)	ROHM & HAAS ELECT MATEF	C07D221/04	C08F212/08	TW201922821 (A)	2017-11-02
Addition polymers from nitrogen heterocycle containing monomers and vinyl arylcyclobutene-containing monomers					

☐ 2. METHOD FOR PRODUCING METH

★ Inventor:	Applicant:
DUCKHYOUNG HWANG	KIA MO
Page bookmark	TW201922821 (A) - Addition polymers from nitrogen heterocycle containing monomers and vinyl arylcyclobutene-containing monomers
Inventor(s):	HAYES COLIN [US]; AOUDE TINA [US]; BARR ROBERT K [US]; FLEMING DAVID [US]; GALLAGHER MICHAEL K [US]; RIENER MICHELLE [US] ±
Applicant(s):	ROHM & HAAS ELECT MATERIALS [US] ±
Classification:	- international: C08F212/08 ; C08F212/32 ; C08F220/18 ; C08F226/06 ; C08J5/18 ; C08L25/00 ; C09D125/00 ; C09D5/25 ; H01B3/44 - cooperative: C07D221/04 (EP , US); C08F212/08 (EP , US); C08F212/12 (US); C08F220/18 (US); C08F226/06 (EP , US); C08F236/04 (US); C09D125/08 (EP); C08F2220/1825 (EP , US); C08F2220/1833 (US); C08L2203/16 (US) → more
Application number:	TW20180138727 20181101
Priority number(s):	US201715801776 20171102
Also published as:	CN109748997 (A) EP3480222 (A1) JP2019085563 (A) KR20190050295 (A) US2019127505 (A1)

Impact on Espacenet users - New Espacenet (4/4)

Results



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AU2018274880A1 ROTOR BLADE

Available in ▼

Patent Translate ▼

Bibliographic data ▼

Classifications

IPC

B22F3/10; B64C27/46; B64C27/473; F01D5/14; F03D1/06;

CPC

B29C64/153 (US); B64C11/18 (EP); B64C11/26 (EP); B64C21/02 (EP,AU,US); B64C27/463 (AU); B64C27/467 (AU); B64C3/26 (EP); F03D1/0675 (EP,AU); B29C64/153 (AU); B29L2031/08 (AU,US); B33Y10/00 (AU,US); B33Y80/00 (EP,AU,US); B64C11/26 (US); B64C2230/14 (EP); B64C2230/22 (EP,AU); F03D1/0675 (US); F05B2230/22 (US); F05B2230/31 (EP); F05B2240/301 (US); F05B2260/96 (US); F05B2260/962 (AU); F05D2230/22 (US); F05D2240/304 (US); F05D2260/96 (US); F15D1/10 (US); G10K11/16 (AU);

Priorities

AU2018902243A·2018-06-22

Application

AU2018274880A·2018-12-04

Summary of the CPC International project

- From an EPO-USPTO bilateral initiative, the CPC is now **an international classification standard**: 29 offices in the CPC
- The CPC is **extending its coverage**: 57 million documents classified
- **Offices** providing CPC allocations can now be **displayed** and **searched**
- With the CPC International project, the CPC is **modernising its infrastructure** to get ready for the future!

**Cooperative
Patent
Classification**

European Patent Office
United States Patent and Trademark Office



uspto

F16M11/2028{around a horizontal axis} (—)
F16M11/2035{for rolling, i.e. for creating a landscape-portrait relation}
F16M11/2042{constituted of several dependent joints}
F16M11/205{the axis of rotation intersecting in a single point e.g. gimbals}

Thank you for your attention!

More info?

www.cpcinfo.org

cpc@uspto.gov

cpc@epo.org