

# CPC update IPC Committee of Experts

22-23 February 2023

...more than one direction)

F16M11/2042    ●●●● {constituted of several dependent joints}

F16M11/205    ●●●●● {the axis of rotation intersecting in a single point e.g. gimbal}

# **10 years in the CPC**

From a bilateral initiative to a global international classification system

# The start of an incredible adventure – October 2010

## **USPTO and EPO Work Toward Joint Patent Classification System**

"In view of the significant benefit to stakeholders of developing a transparent and harmonized approach to a global classification system for patent documents; in order to make the search process more effective; and in the belief that cooperation between their two offices will facilitate progress in undertaking classification harmonization projects under the IP5 Common Hybrid Classification initiative, the USPTO and the EPO have agreed together to work toward the formation of a partnership to explore the development of a joint classification system based on the European Classification system (ECLA) that will incorporate the best classification practices of the two offices. This system would be aligned with the World Intellectual Property Organization (WIPO) classification standards and the International Patent Classification (IPC) structure. Accordingly, they have initiated discussions on governance and operational aspects of such a partnership.

The IP5 partner offices will be continually apprised of progress at appropriate IP5 forums. Stakeholders will receive regular updates on the substance and progress of classification partnership discussions between the two offices."

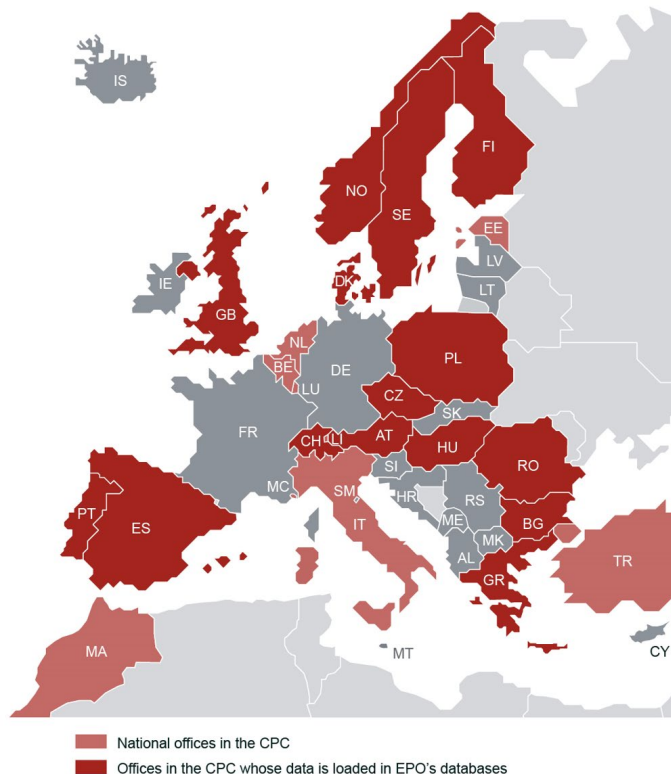
October 25, 2010

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# From 2 to 37 CPC offices: a growing CPC community

- There are now 37 offices in the CPC (including the EPO and USPTO)
  - **Morocco** and **Bulgaria** joined the CPC in 2021
  - **Peru** signed a CPC MoU with the EPO (April 2022)
  - **Monaco** and **Belgium** joined the CPC in July 2022
  - **Italy** joined the CPC in September 2022
  - **Luxembourg** joined the CPC in December 2022
- Out of these 37 offices, 22 are EPO member states

## 22 EPO member states (besides the EPO) and 1 validation state in CPC



**Poland started exchanging CPC data with the EPO in May 2022**

## **Some 2023 events where CPC will be presented:**

- **10<sup>th</sup> CPC Annual meeting with National Offices**, 08-09 March 2023, will be virtual
- **10<sup>th</sup> CPC Annual meeting with Industry users**, 23 March 2023, will be virtual
- **Patent Information Users Group (PIUG) 2023 Annual conference**, 30 April – 03 May, 2023, will be at Alexandria, VA

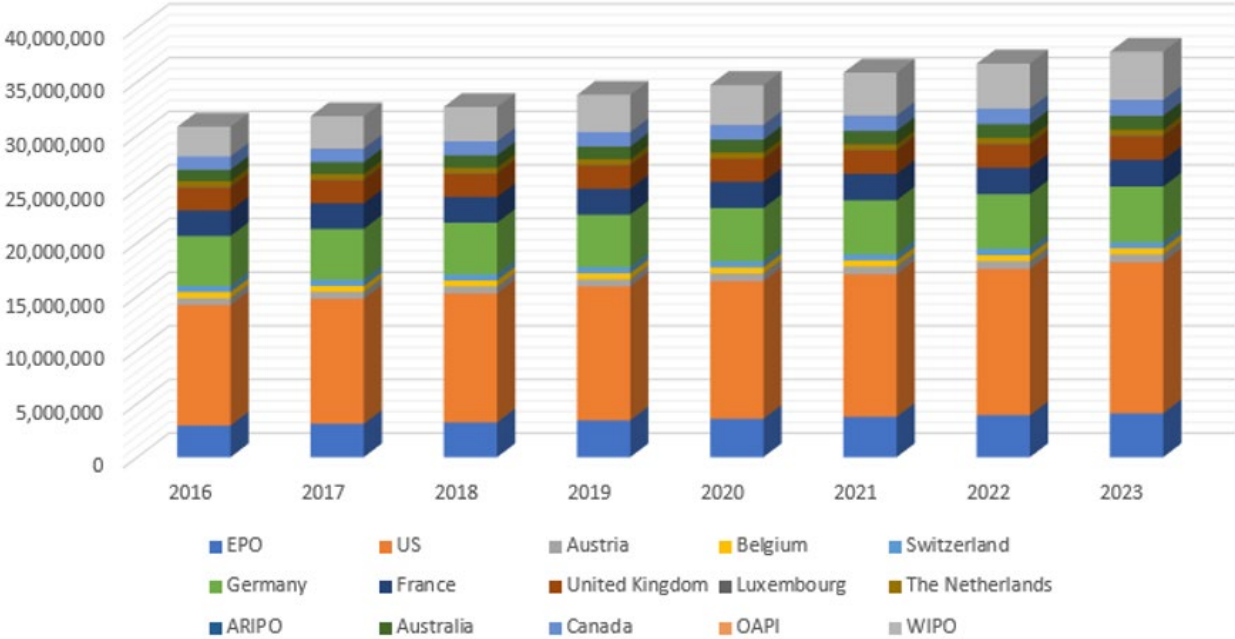
# CPC data coverage

# CPC coverage EPO core collection (1 January 2023)

Country	Country Code	Total number of applications (source: EPODOC on 01/01/2023)	Number of applications classified in CPC by national office	% of applications classified in CPC
EPO	EP	4.098.629	4.096.762	100,0%
United States	US-A + US-B Docs	14.097.985	14.090.217	99,9%
Austria	AT	1.013.446	729.761	72,0%
Belgium	BE	594.286	560.856	94,4%
Switzerland	CH	722.578	584.098	80,8%
Germany	DE	5.970.705	5.171.866	86,6%
France	FR	2.501.321	2.481.396	99,2%
United Kingdom	GB	2.441.097	2.185.906	89,5%
Luxembourg	LU	66.467	65.438	98,5%
The Netherlands	NL	559.518	546.766	97,7%
ARIPO	AP	5.538	4.300	77,6%
Australia	AU	1.618.994	1.307.194	80,7%
Canada	CA	2.621.952	1.495.979	57,1%
OAPI	OA	13.433	13.222	98,4%
WIPO	WO	4.484.513	4.475.523	99,8%
	<b>TOTAL</b>	<b><u>40.810.462</u></b>	<b><u>37.809.284</u></b>	



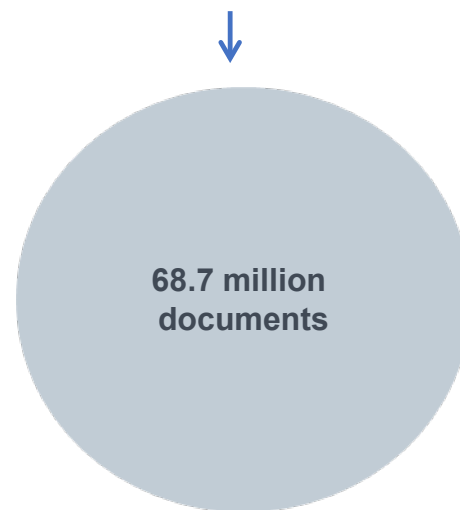
# CPC coverage EPO core collection in past 10 years:



# CPC data sent by 22 CPC offices (1 January 2023)

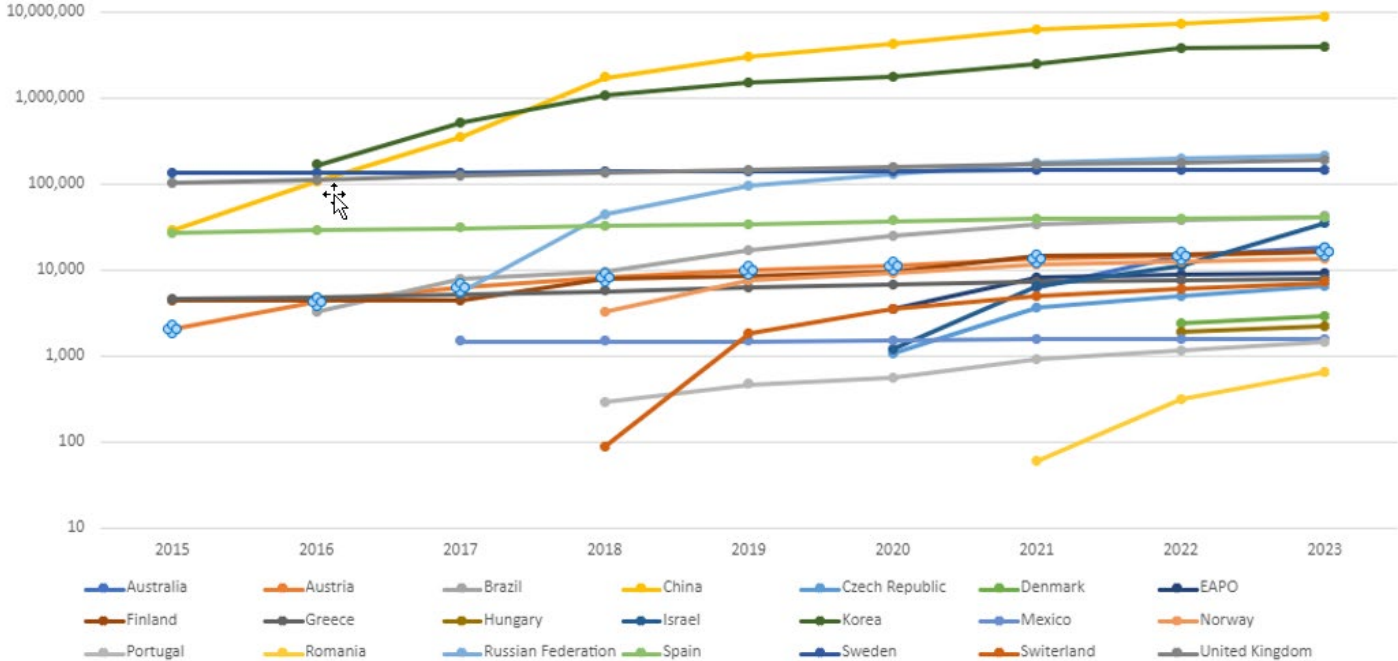
Country	Country Code	Total number of applications (source: EPODOC on 01/01/2023)	Overall number of publications classified in CPC (Family level)	Number of applications classified in CPC by national office on 01/01/2023
Australia	AU	1.618.994	1.307.194	18.831
Austria	AT	1.013.446	729.761	16.666
Brazil	BR	828.858	590.581	42.728
China	CN	33.630.811	12.595.182	8.922.381
Czech Republic	CZ	100.098	50.747	6.608
Denmark	DK	454.847	320.096	2.991
EAPO	EA	62.667	56.386	9.401
Finland	FI	200.657	123.621	16.602
Greece	GR	107.166	58.186	8.079
Hungary	HU	151.927	107.772	2.278
Israel	IL	155.566	140.821	36.322
Korea	KR	4.886.339	4.279.287	4.072.365
Mexico	MX	331.189	303.839	1.600
Norway	NO	212.982	187.546	13.755
Poland	PL	424.378	216.126	554
Portugal	PT	146.043	135.722	1.500
Romania	RO	76.906	17.212	661
Russian Fed.	RU	1.178.100	445.852	218.880
Spain	ES	1.540.827	824.456	42.443
Sweden	SE	526.755	341.048	150.240
Switzerland	CH	722.578	584.098	7.325
United Kingdom	GB	2.441.097	2.185.906	194.524
<b>TOTAL</b>		<b>50.387.853</b>	<b>25.385.313</b>	<b>13.786.734</b>

EPO core collection  
 + CPC data from other offices  
 + Family propagation  
 + 1.5 Million NPL documents



68.7 million documents are now classified in the CPC as of 1 January 2023

# CPC data sent by National Offices in past 10 years:



# **CPC harmonisation and training**

# Harmonisation plan EPO-USPTO

- Bilateral agreement on classification practice
- ~800 USPTO technical and classification experts discuss with ~680 EPO Classification Quality Nominees (Class-QNs)
- Standardisation of classification practice.

# Want to know more about CPC classification practice?

About CPC  
Objectives  
CPC Scheme and Definitions  
CPC Revisions  
CPC Concordances  
CPC Training  
Events  
Publications  
Press releases  
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Archive  
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Sitemap

## 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:

- [Introduction to the Cooperative Patent Classification \(CPC\)](#)
- [Using CPC in classification \(basic level\)](#)
- [Practical and strategic aspects of the CPC \(for experienced users\)](#)

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

This Script is copyrighted material and remains the intellectual work and property of the European Patent Office (EPO). It is shared free of charge "as is" for the use of training exclusively, without ensuring that it is free from any errors or omissions. No warranty of any kind either express or implied is given. Any direct, indirect, special, incidental, punitive, exemplary or consequential damage(s), losses of data, profits or revenues arising out of or in connection with the use or inability to use the EPO's Script are the liability of the user, even if the EPO is advised of the possibility of such damage(s).

[List of technical areas where Combination Sets are used](#)

[General training on Combination Sets](#)

[Training material on Combination Sets in the Polymers area](#)

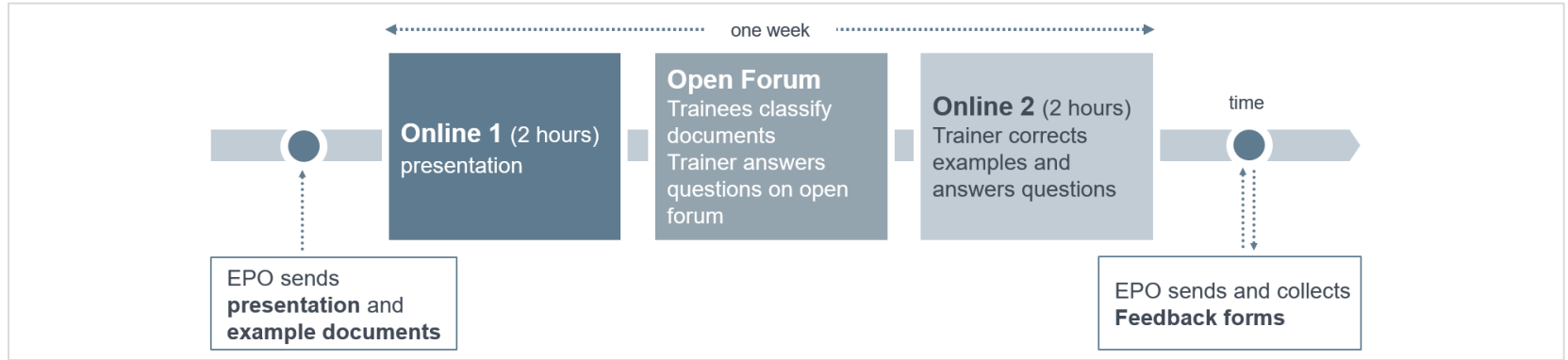
- [Introduction](#)
- [General](#)
- [Tables for C08 and C09](#)

- CPC Scheme and Definitions
- CPC General and Advance training
- E-learning modules:
  - Using CPC in classification
  - Practical and strategic aspects of the CPC
  - CPC essentials
  - General training on Combination sets
- CPC Field-specific training material
  - Recorded lectures on CPCinfo.org (European Patent Academy)

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

# CPC collective training events

## CPC Training went online!



## Collective Training Events in 2022:

B64G, B65G, A61B 5/00, A24F, H02K, H01L33 (spring sessions)

H04R, G10L13-17/26 & G10L25-99, A61L15-33/18, A45B, B65B, C12N9/C07K14 (autumn sessions)

## Collective Training Events in 2023 (March – June 2023)

A61K33, B25B, C01G, C08F14, F28, G01C, G01P, H01P

Registration is open until 22 March 2023) via [OS08-2023](#)

(full url: <https://www.epo.org/learning/training/details.html?eventid=16058>)

# CPC training on the CPC website

CPC Training

## CPC Training

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

The screenshot shows the 'CPC field-specific training: recorded lectures' page. At the top, there's a navigation breadcrumb: 'e-learning centre > Courses > Courses > CPC field-specific training'. Below this are two buttons: 'Information' and 'Feedback'. A '+ open all' and '- close all' toggle is visible. The main content is divided into sections: 'INTRODUCTION' and 'RECORDED LECTURES'. The 'RECORDED LECTURES' section lists several technical fields with links to their respective recorded presentations.

CPC field-specific training: recorded lectures

e-learning centre > Courses > Courses > CPC field-specific training

Information Feedback

+ open all - close all

INTRODUCTION

This course consists of 35 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

- A61K 8, A61Q, A61K 2800: Field-specific cosmetics or similar toilet preparations (Sylvie Perrone Dunet)
- A61K 35/36/38, A61P: Biopharmacy (Astrid Langer)
- A61N2: Magnetotherapy, A61N5: Radiation Therapy (Eva Beck)
- A63B: Apparatus for physical training, gymnastics, swimming, climbing, or fencing, ball games, training equipment (Diego Tejada Biarge)

SECTION B

- B01J3-B01J19: Reactors (Philippe Thomasson)



# USPTO updates on CPC Training

Customize unique technical expert training for each office (at USPTO or National Office location)

- General training
- Master level training
- Advanced training in specific technical field
- C-set training
- Computer Based Training (CBT) e-learning modules
- Field-Specific Training (FST) on CPC Scheme/Definitions

# USPTO updates on CPC Training

Customize unique classification workshop for external stakeholders  
(at Regional Offices of the USPTO)

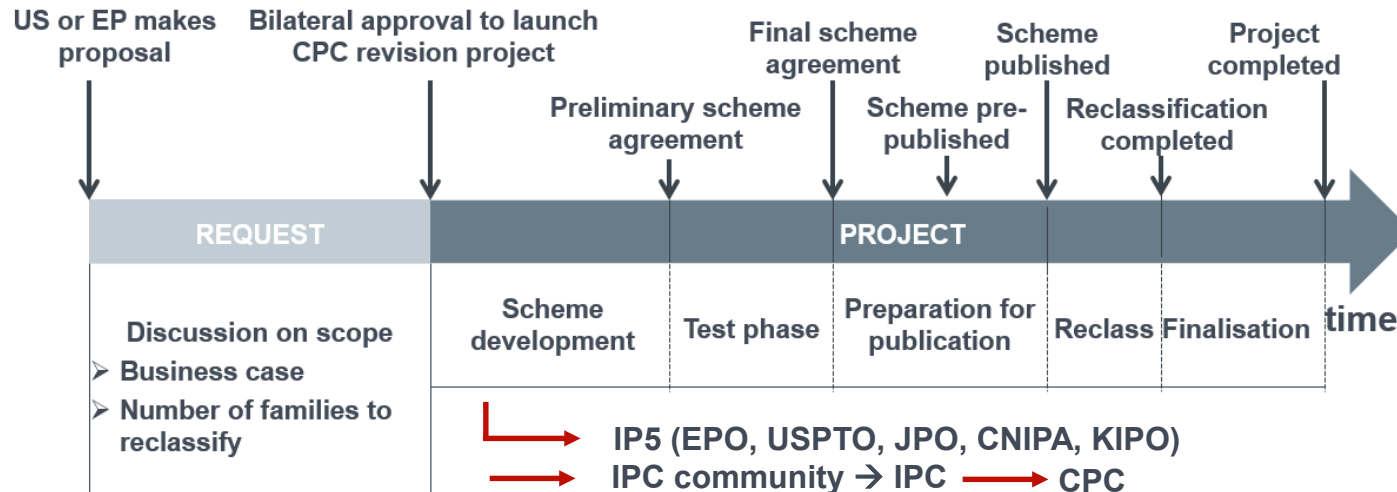
- General training
- Advanced training
- Field specific training on CPC Scheme/Definition
  - New Emerging Technologies
- C-set training

# **A dynamic CPC scheme**

Keeping CPC updated with on-going technological developments

# CPC kept being updated: CPC revisions

- **Adaptations** of the CPC scheme are **triggered** by:
  - EPO / USPTO / patent offices' examiners
  - Classification departments
- **CPC bilateral revision process:**



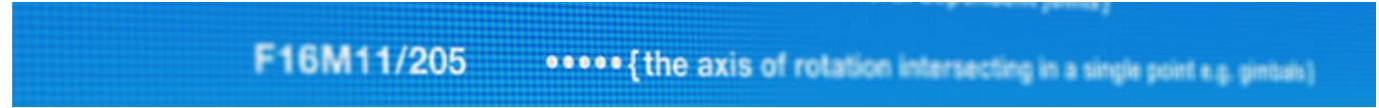
# CPC Release Schedule

- Four releases per year
- Announced under "Latest News" section on [www.cpcinfo.org](http://www.cpcinfo.org)
- Four CPC releases in **2023**:
  - 1 January 2023      CPC 2023.01
  - 1 February 2023    CPC 2023.02
  - 1 May 2023        CPC 2023.05
  - 1 August 2023     CPC 2023.08

The screenshot shows the website for Cooperative Patent Classification. The navigation menu on the left includes: Home, Latest news (highlighted with a red box), About CPC, Objectives, CPC Scheme and Definitions, CPC Revisions, CPC Concordances, CPC Training, Events, Publications, Press releases, Links, FAQ, Archive, Contact Us, and Sitemap. The main content area features a blue background with a list of CPC codes and their descriptions, such as F16M11/2021, F16M11/2028, F16M11/2035, F16M11/2042, F16M11/205, F16M11/2057, F16M11/2064, F16M11/2071, and F16M11/2078. A news announcement is visible, dated 20 September 2019, stating that 20 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 news announcement is also highlighted with a red box. The USPTO logo is visible in the bottom right corner.

# CPC revisions – pre-release area

- Home
- Latest news
- About CPC
- Objectives
- CPC Scheme and Definitions
- CPC Revisions**
  - Notice of Changes
  - Ongoing CPC Projects
  - Pre-release**
  - CPC Concordances
  - CPC Training
  - Events
  - Publications
  - Press releases
- Links
- FAQ
- Archive
- Contact Us



## 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).

### 5 January 2021: 2021.02 pre-released material:

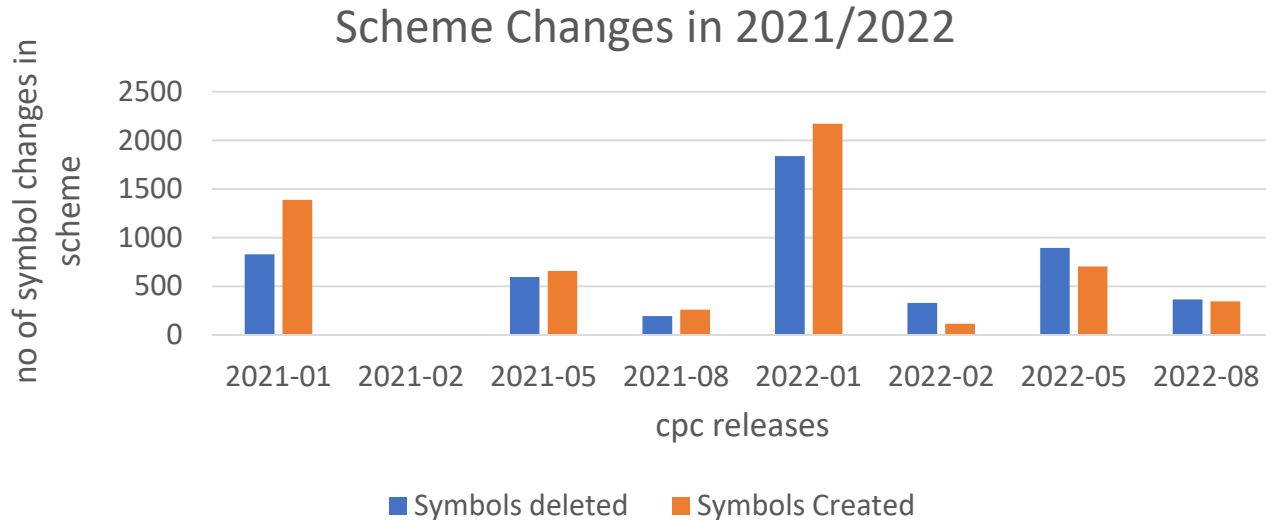
- 2021.02 CPC Scheme in [PDF](#) and in [XML](#)
- 2021.02 CPC to IPC concordance in [PDF](#), [XML](#) and [TXT](#)
- Notices of Changes related to the "2021.02 CPC Scheme":
  - [CPC Notice of Changes 1036-MP0499 \(various\)](#)
  - [CPC Notice of Changes 1037-MP0501 \(C09J\)](#)

Search



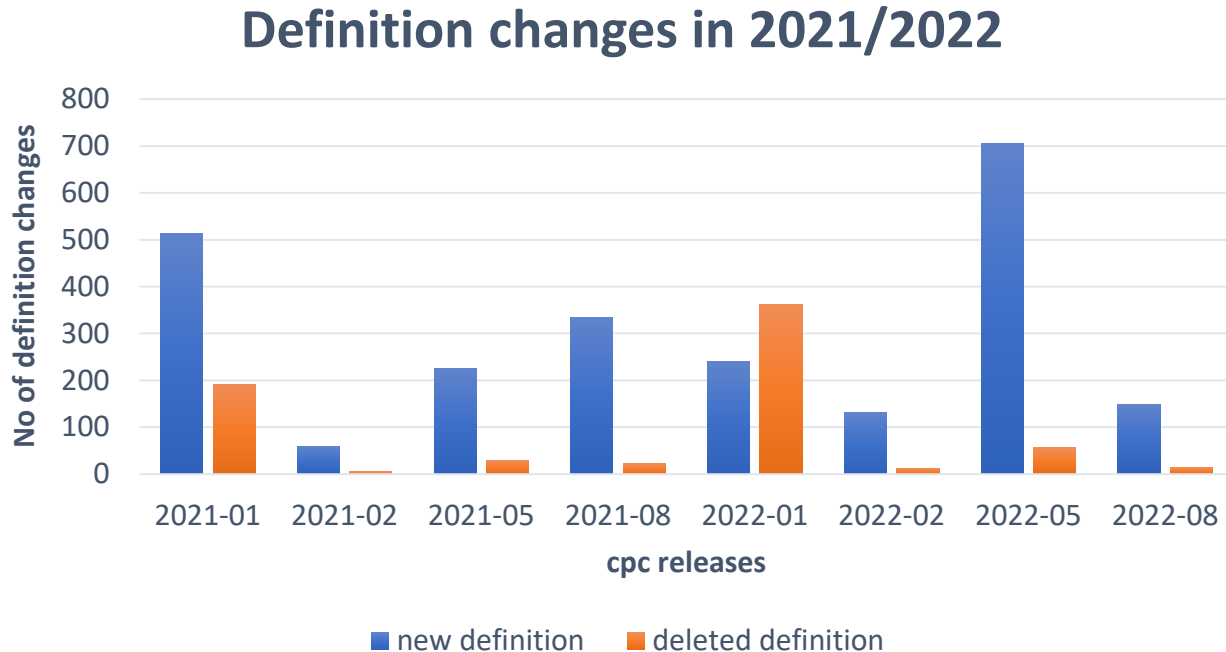
# Scheme Changes in 2021/2022:

- Number of created new symbols
- Number of deleted symbols



# Definition Changes in 2021/2022:

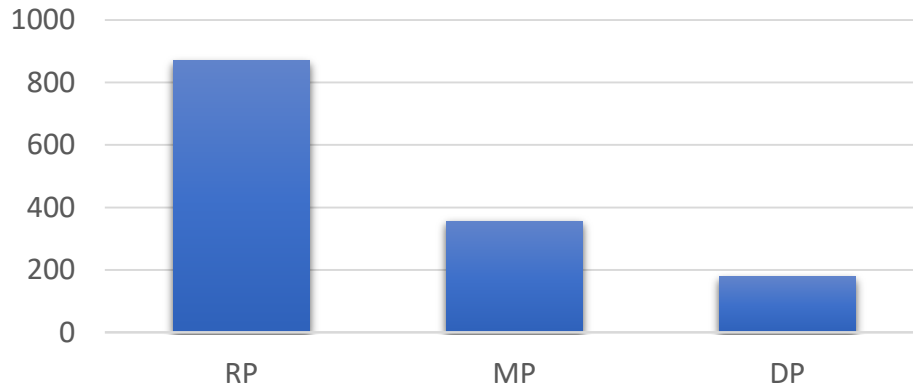
- Number of new definitions
- Number of deleted definitions





# CPC Notices of Changes (NoC) 2013 – 2023:

## 2013-2023 CPC NoC Publication data

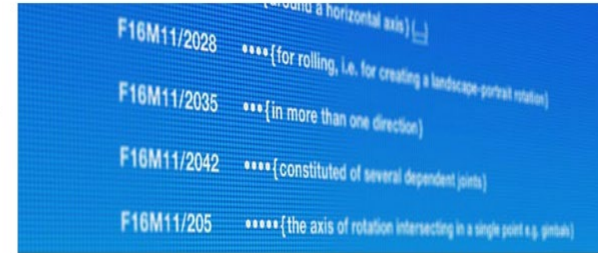


Year	RP	MP	DP
2013-2023	870	357	178

Cooperative  
Patent  
Classification  
European Patent Office  
United States Patent and Trademark Office



- Home
- Latest news
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- CPC Scheme and Definitions
- CPC Revisions
  - Notice of Changes
  - Projects
  - Pre-release
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- CPC Training
- Events
- Publications



### 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

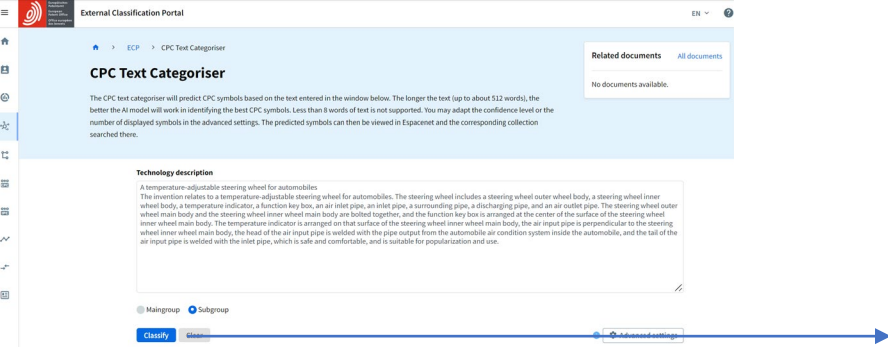
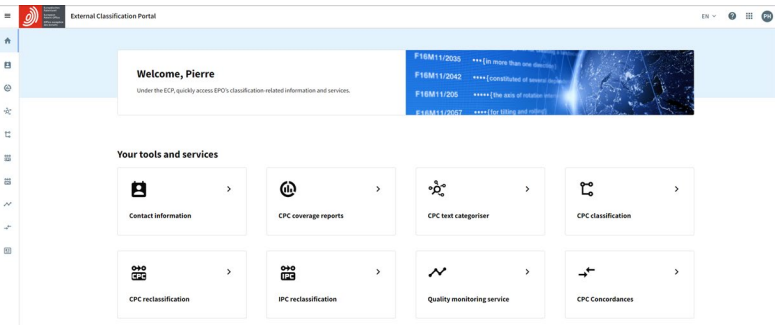
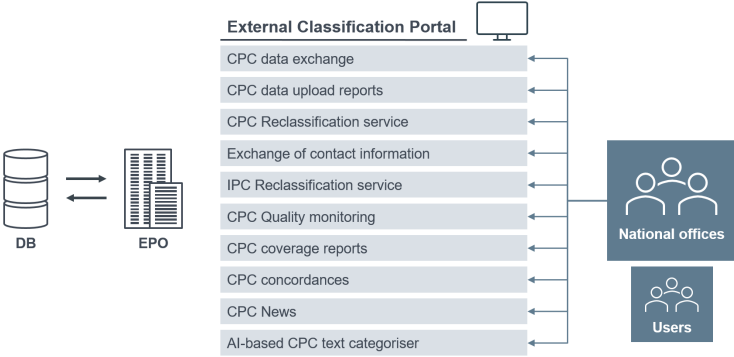


# Reclassification efforts at the USPTO and the EPO:

- After CPC revisions **group inventories need to be reclassified** accordingly; this constitutes the maintenance of the system, which is carried out by the USPTO, the EPO and other CPC offices.
- EPO's and USPTO's objective is to reclassify documents **within a year** past the publication date of their respective CPC releases.
- In past 10 years, the USPTO and the EPO reclassified more than **2.2M** family documents.

**What comes next?**

# More services to CPC offices and users



**Top 10 results at Subgroup level**

Confidence level: 0.9		
8	PERFORMING OPERATIONS, TRANSPORTING <b>TRANSPORTING</b>	2013-01
B62	LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS	2013-01
B62D	MOTOR VEHICLES; TRAILERS (steering, or guiding on a directed track, of agricultural machines or implements A01B9/00; wheels, castors, axles, increasing-wheel adhesion B60D; vehicle tyres, tyre inflat...	2013-01
B62D 1/00	Steering controls, i.e. means for initiating a change of direction of the vehicle	2013-01
B62D 1/02	• vehicle-mounted	2013-01
B62D 1/04	•• Hand wheels	2013-01
B62D 1/06	••• Rims, e.g. with heating means; Rim covers (B62D/21 takes precedence)	2013-01
<b>B62D 1/069</b>	<b>•••• Steering wheels with heating and ventilating means; Heating and ventilating arrangements for spaces of vehicles B60D</b>	2013-01
Confidence level: 0.2		
8	PERFORMING OPERATIONS, TRANSPORTING <b>TRANSPORTING</b>	2013-01

[Subclass definition \(PDF\)](#)  
[Link to Espacenet browser](#)

**Thank you for your attention!**

**More info?**

[www.cpcinfo.org](http://www.cpcinfo.org)

[cpc@uspto.gov](mailto:cpc@uspto.gov)

[cpc@epo.org](mailto:cpc@epo.org)