



# 10<sup>th</sup> CPC annual meeting with offices classifying in the CPC

08-09 March 2023

F16M11/2042 \*\*\*\* {constituted of several dependent joints }

F16M11/205 \*\*\*\*\* {the axis of rotation intersecting in a single point e.g. pintals)

## **Topics**

- 10 years in the CPC
- CPC data coverage
- CPC harmonisation and training
- A dynamic CPC Scheme
- Update on Collaboration Environment tool

## 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.

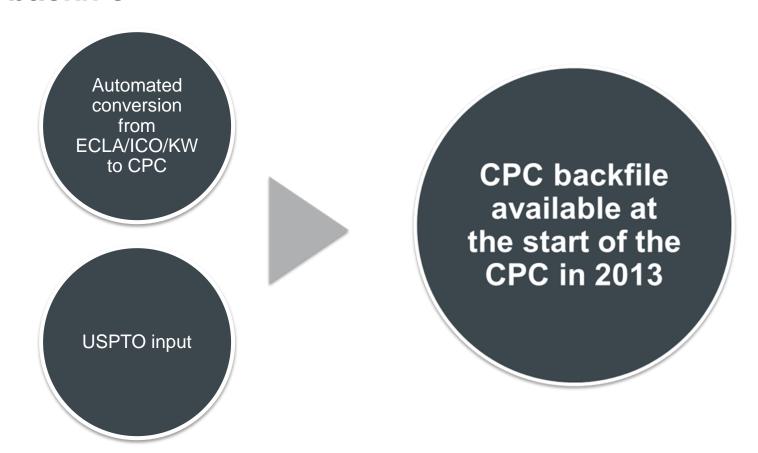
The IP5 partner offices will be continually apprised of progress at appropriate IP5 forums. Stakeholders will receive regular updates on the substance and progress of classification partnership discussions between the two offices."

October 25, 2010

### CPC scheme – sections A-H

H01L21/285 H01L21/28504 **Ø** IPC + {CPC} H01L21/28508 Classification Ø {CPC only} H01L21/28512 (INV/ADD) "Main trunk" ... H01L21/28524 H01L21/28528 Indexing code H01L2021/285285 "Further Breakdown" CPC (ADD) H01L21/28532 Indexing H01L2925/065 (ADD) "Orthogonal" CPC and IPC H01L2925/06504 "2000-series" or indexing codes "Indexing" area H01L2925/06508

### **CPC** backfile



## **CPC** on **EP** publications

In **2021**:

§ CPC in the European publication server <a href="https://data.epo.org/publication-server">https://data.epo.org/publication-server</a>



§ CPC in the European Patent Register



- **§ CPC in the bibliographic data** of EP-A and EP-B publications (EBD)
- § CPC on EPO Bulletin PDFs

## **CPC** on **EP** publications (2)

In **2022** (since week 3/2022 - 19 January 2022)

## **CPC** displayed on the PDFs of EP publications!



## **CPC** on **EP** publications (3)

See <u>Patent Knowledge News</u> for detailed information



14.2.2022

## Making CPC available at the time of publication

Availability of the Cooperative Patent Classification (CPC) on the day of publication on published EP documents

- January 2013
  - EPO and USPTO launch CPC
- March 2013
  - First US Patent applications published with CPC symbols
- May 2013
  - First US Patent Grant published with CPC symbols
- January 2015
  - US Patent applications are no longer classified in USPC (except designs and plants)

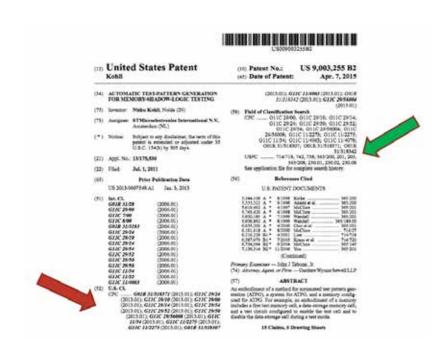


by removing the noise pattern.

10-2014-0085353

Jul. 8, 2014 (KR)

The effective date for Pre-Grant Publication (A) change was 09 April 2015.



The effective date for Patent Grant (B) change was 07 April 2015.

### June 2013

 The USPTO and Korea signed an Agreement to classify into the CPC

### May 2016

 The USPTO and Israel signed an Agreement to classify into the CPC

### September 2018

 The USPTO and Chile signed an Agreement to classify into the CPC in near future

### January 2019

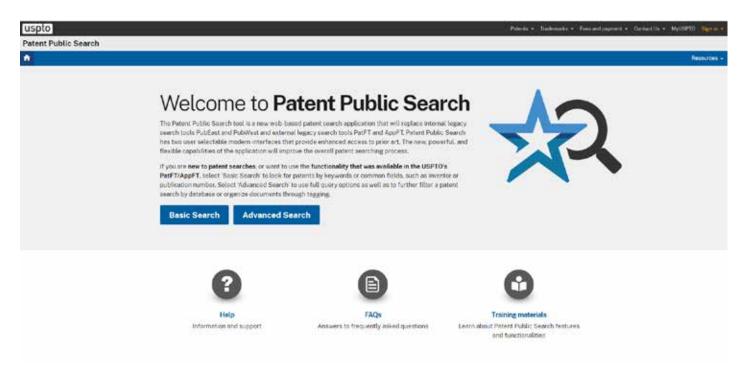
Research on Artificial Intelligence (AI) for classification

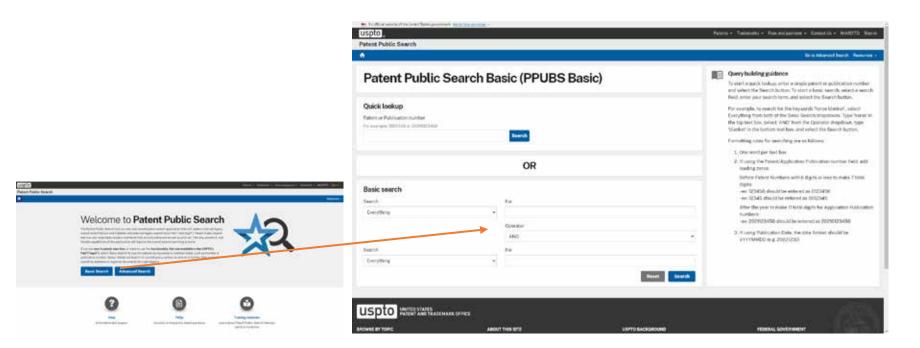
### March 2020

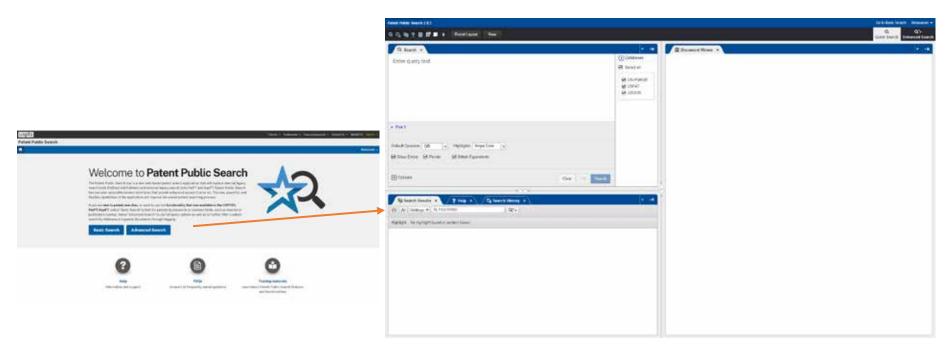
 The USPTO transitions from USPC (United States Patent Classification) to CPC for internal purposes

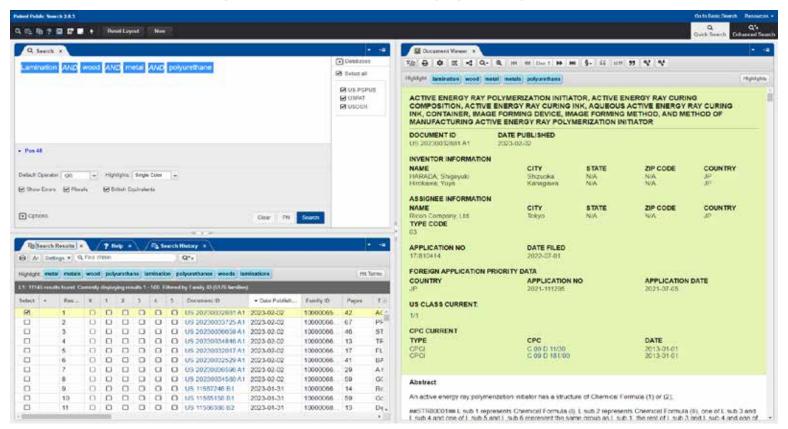
### December 2020

 The USPTO began to use Artificial Intelligence (AI) for preclassification





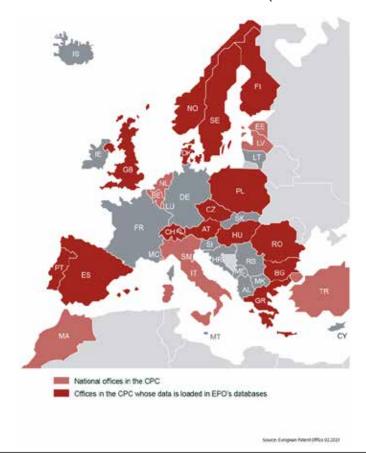




## From 2 to 38 CPC offices: a growing CPC community

- § There are now 38 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
  - Latvia joined the CPC in February 2023
- § Out of these 38 offices, 23 are EPO member states

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



Poland started exchanging CPC data with the EPO in May 2022

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## 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

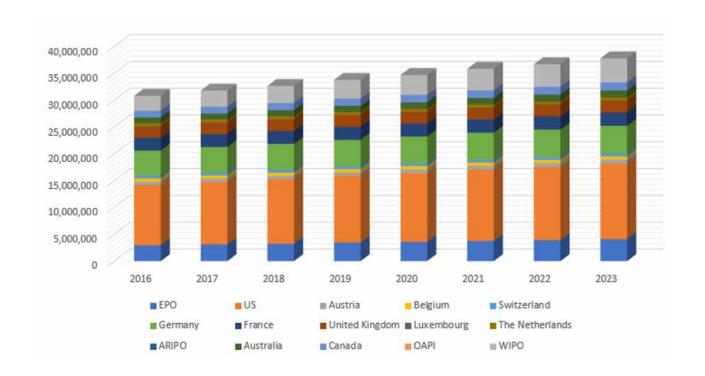
 Patent Information Users Group (PIUG) 2023 Annual conference, 30 April – 03 May, 2023, will be at Alexandria, VA

## **CPC** data coverage

# CPC coverage of systematically classified 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	СН	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%
	TOTAL	<u>40.810.462</u>	37.809.284	

## **CPC** coverage in past 10 years:

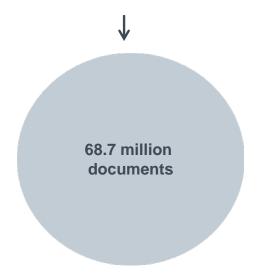


## CPC data sent by 22 CPC offices (1 January 2023)

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	СН	722.578	584.098	7.325
United Kingdom	GB	2.441.097	2.185.906	194.524
	TOTAL	50.387.853	25.385.313	13.786.734

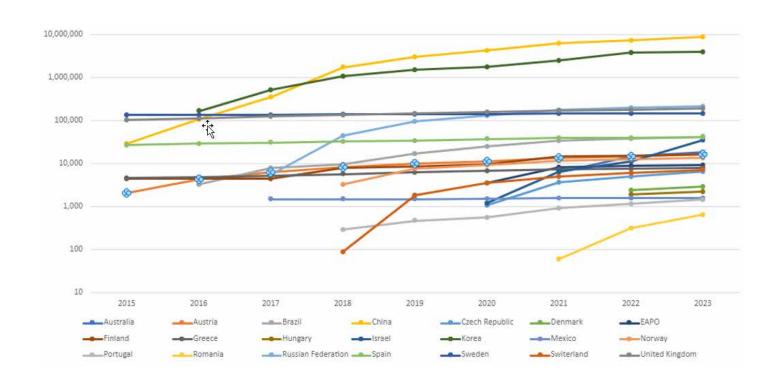
#### **EPO** core collection

- + 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

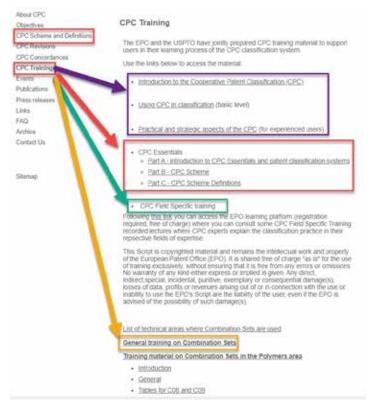
## Harmonisation plan EPO-USPTO

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?



- 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**

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
  - o Part A introduction to CPC Essentials and patent classification systems
  - Part B CPC Scheme
  - o 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 lectures where CPC experts explain the classification practice in their repsective fields of expertise.

https://www.cooperativepatentclassification.org/Training



## **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

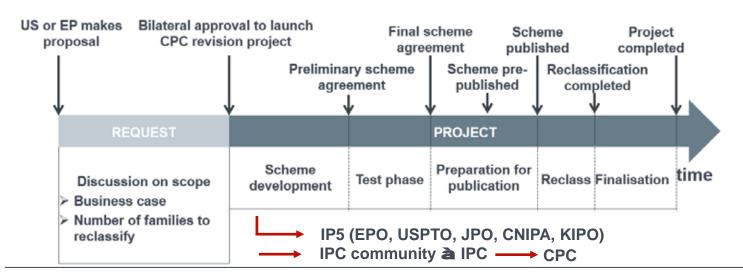
## A dynamic CPC scheme

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



- 1 January 2023 CPC 2023.01
- CPC 2023.02 - 1 February 2023
- 1 May 2023 CPC 2023.05
- CPC 2023.08 - 1 August 2023



Latest news

Opinchysis

Events Publications.

Links

FAO

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## 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

F16M11/205

••••• (the axis of rotation intersecting in a single point s.g. gimbals)

#### 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.

Search Enter search term Go





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

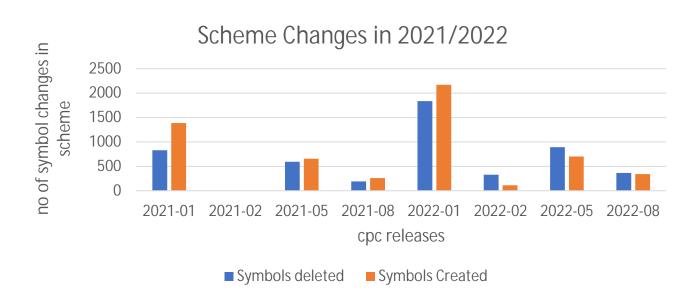
The pre-release will normally happen on the first Tuesday of a given month (for example Tuesday 6 May 2014) for entry into force on the first day of the following month (for example 1 June 2014).

#### 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)

## Scheme Changes in 2021/2022:

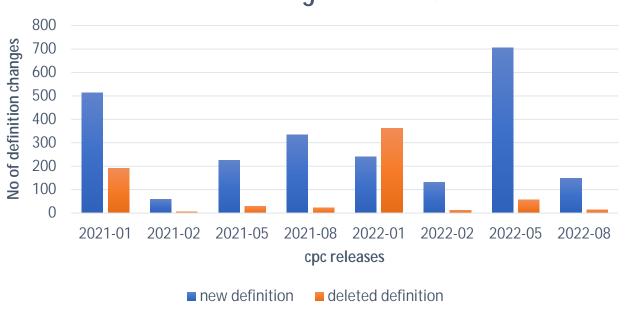
- Number of created new symbols
- Number of deleted symbols



## **Definition Changes in 2021/2022:**

- Number of new definitions
- Number of deleted definitions

## Definition changes in 2021/2022



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



### 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.

**Update on the CPC Collaborative Environment** 

(CPC-CE)

## Background

- Goal: Increase the quality and efficiency of Classification revision by enhancing work-sharing and information exchange between Intellectual Property (IP) Offices for revision projects
- Suite of bilateral collaboration tools, commonly referred to as the CPC Collaborative Environment (CPC-CE or CE), that replaced CPC e-Forum (CEF)

### **Current State**

- Minimum Viable Product (MVP) launched bilaterally between the USPTO and the European Patent Office on 1 January 2022
- CEF decommissioned on 31 December 2021 by migrating all active projects to CE
- No access for other IP Offices

## **Next Steps**

### Increase bilateral tool performance and capabilities

- Platform stability
- Complete WMS functionality
- Project Management Dashboards
- Expand Advanced Editor functionalities to include enhanced Quality
   Validation and Direct Data Feed to Scheme Publication

### Phased expansion of CE to other IP Offices

- Static data feeds on project status and timelines
- Read capability of certain aspects of the CE Workflow Management System (WMS)
- Ability to provide input on current, as well as future, projects within CE

## Thank you for your attention!

More info?

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