

11th CPC annual meeting with offices classifying in the CPC

14 March 2024, Geneva

F16M11/2042

•••• {constituted of several dependent joints}

F16M11/205

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

Topics

- The CPC community
- CPC data coverage
- A dynamic CPC scheme
- CPC harmonisation and training
- USPTO and EPO specific news

A growing CPC community

From a bilateral initiative to a global international classification system

From 2 to 38 CPC offices: a growing CPC community

§ There are now 38 offices in the CPC (including the EPO and USPTO):

AT, AR, AU, BE, BG, BR, CA, CH, CL, CN, CZ, DK, EA, EE, ES, FI, GB, GR, HU, IL, IT, KR, LU, LV, MA, MC, MX, NL, NO, PE, PL, PT, RO, RU, SE and TR

- **Morocco** and **Bulgaria** joined the CPC in 2021
- **Peru** joined the CPC in 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

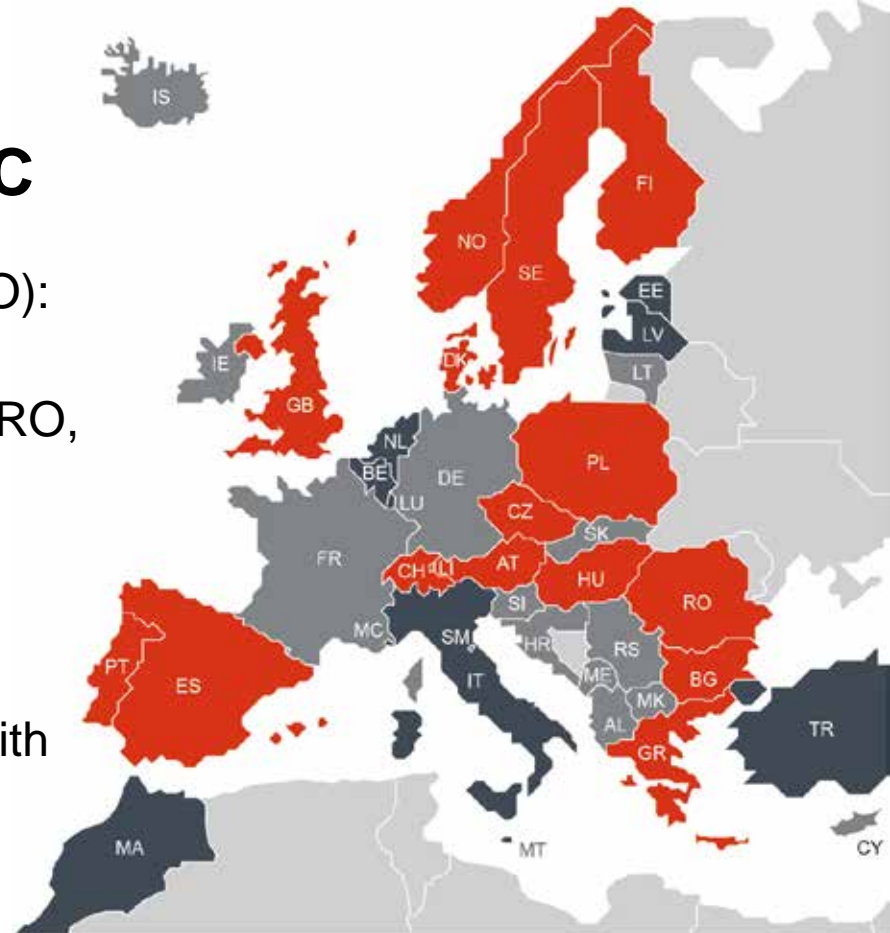
23 EPO member states and 1 validation state in the CPC

§ **23 EPO member states** (besides the EPO):

AT, BE, BG, CH, CZ, DK, EE, ES, FI, GB,
GR, HU, IT, LU, LV, MC, NL, NO, PL, PT, RO,
SE and TR

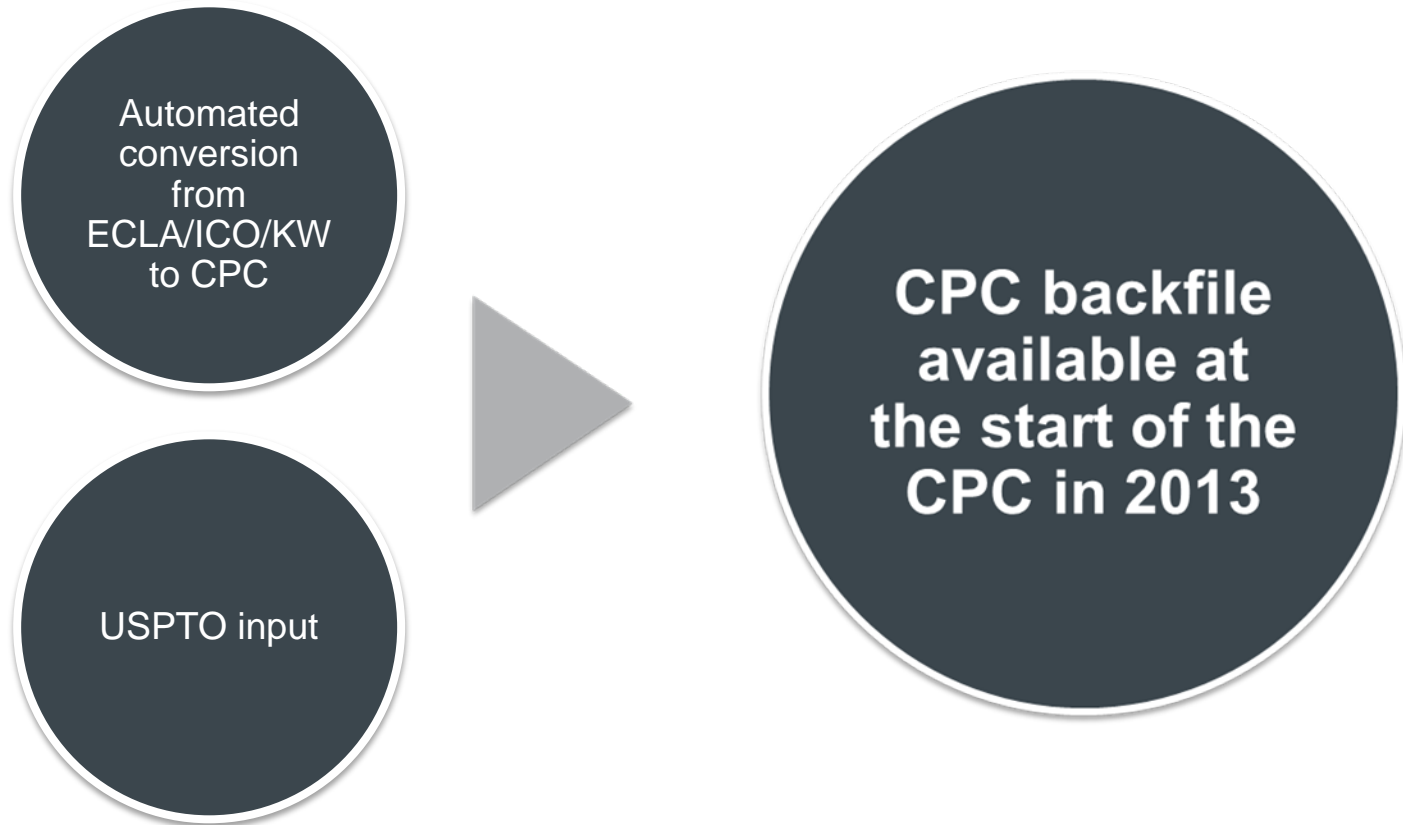
§ **1 validation state: MA** (Morocco)

§ **Poland started exchanging CPC data** with
the EPO in May 2022. Since 1 January
2023, all fields are covered



CPC data coverage

CPC backfile



CPC coverage of systematically classified collection (1 January 2024)

Country	Country Code	Total number of applications	Number of applications classified in CPC	% applications classified in CPC
EPO	EP	4.289.454	4.287.613	100,0%
United States	US-A + US-B Docs	14.536.483	14.530.489	100,0%
Austria	AT	1.014.857	742.087	73,1%
Belgium	BE	595.426	563.082	94,6%
Switzerland	CH	723.634	587.467	81,2%
Germany	DE	6.031.882	5.396.755	89,5%
France	FR	2.517.021	2.499.514	99,3%
United Kingdom	GB	2.452.916	2.203.928	89,8%
Luxembourg	LU	68.644	67.675	98,6%
The Netherlands	NL	563.144	550.701	97,8%
ARIPO	AP	5.538	4.301	77,7%
Australia	AU	1.651.889	1.339.916	81,1%
Canada	CA	2.672.686	1.538.939	57,6%
OAPI	OA	13.433	13.236	98,5%
WIPO	WO	4.751.388	4.744.278	99,9%
TOTAL		41.888.395	39.069.981	

CPC data sent by 22 CPC offices (1 January 2024)

Country	Country Code	Number of publications classified in CPC	Number of applications classified in CPC by national office
Australia	AU	1.339.916	21.262
Austria	AT	742.087	18.094
Bulgaria	BG	14.831	0
Brazil	BR	605.461	42.800
China	CN	14.818.679	10.135.035
Czech Republic	CZ	52.133	8.005
Denmark	DK	325.900	3.630
EAPO	EA	56.390	9.399
Finland	FI	128.927	17.735
Greece	GR	58.542	8.426
Hungary	HU	111.203	2.581
Israel	IL	150.595	43.669
Korea	KR	4.467.302	4.251.137
Mexico	MX	338.715	1.646
Norway	NO	188.702	14.742
Poland	PL	226.146	2.336
Portugal	PT	138.939	1.747
Romania	RO	17.643	1.024
Russian Fed.	RU	445.910	218.867
Spain	ES	841.125	43.634
Sweden	SE	343.039	152.197
Switzerland	CH	587.467	8.434
United Kingdom	GB	2.203.928	205.644
TOTAL		27.962.603	15.212.044

EPO core collection

- + CPC data from other offices
- + Family propagation
- + 1.5 Million NPL documents



72.8 million documents

72.8 million documents are now classified in the CPC (1 January 2024)

A dynamic CPC scheme

Keeping CPC updated with on-going technological developments

CPC release schedule

- § Three to four releases per year
- § Announced under "Latest News" section on www.cpcinfo.org



- § Three CPC releases in 2024:

- 1 January 2024* CPC 2024.01
- **1 May 2024** **CPC 2024.05**
- 1 August 2024 CPC 2024.08

* No February 2024 CPC release. All IPC scheme changes were included in January 2024 CPC release

CPC revisions – pre-release area

CPC Revisions

Pre-release

Notice of Changes

Ongoing CPC Projects

Pre-release

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).

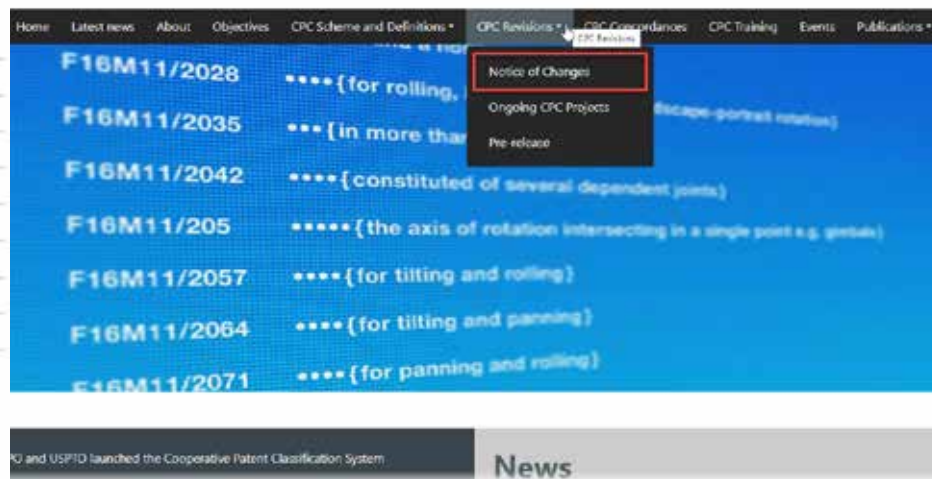
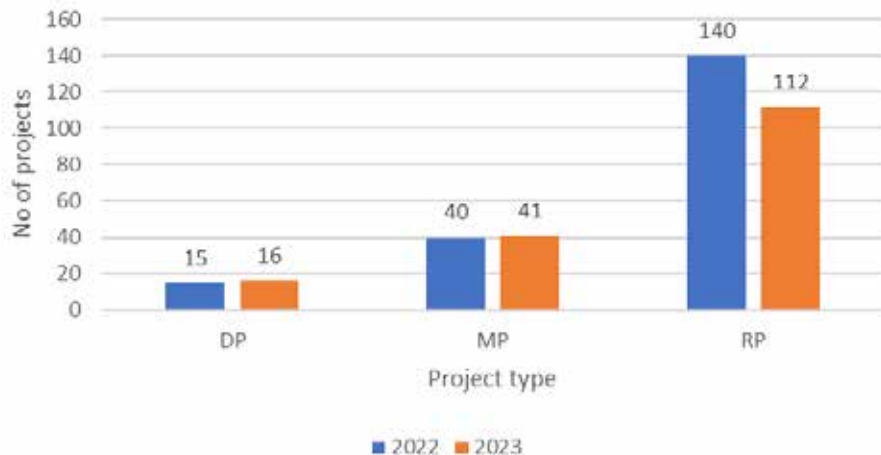
5 December 2023: 2024.01 pre-released material:

- 2024.01 CPC Scheme in [PDF](#) and in [XML](#)
- 2024.01 CPC to IPC concordance in [PDE](#), [XML](#) and [TXT](#)
- Notices of Changes related to the "2024.01 CPC Scheme":
 - [CPC Notice of Changes 1486-DP12017 \(G06Q\)](#)
 - [CPC Notice of Changes 1526-RP10482 \(B61L\)](#)
 - [CPC Notice of Changes 1529-DP11831 \(H04W\)](#)

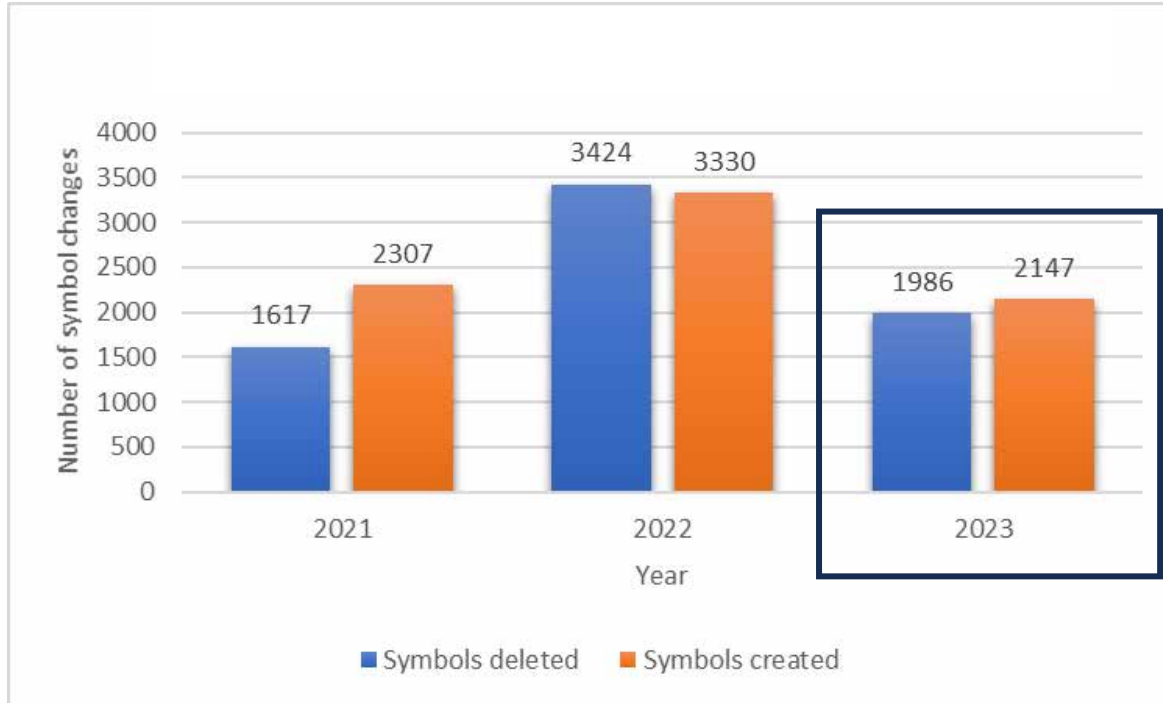
CPC notices of changes (NoC) – 2023:

Year	RP	MP	DP
2023	112	41	16

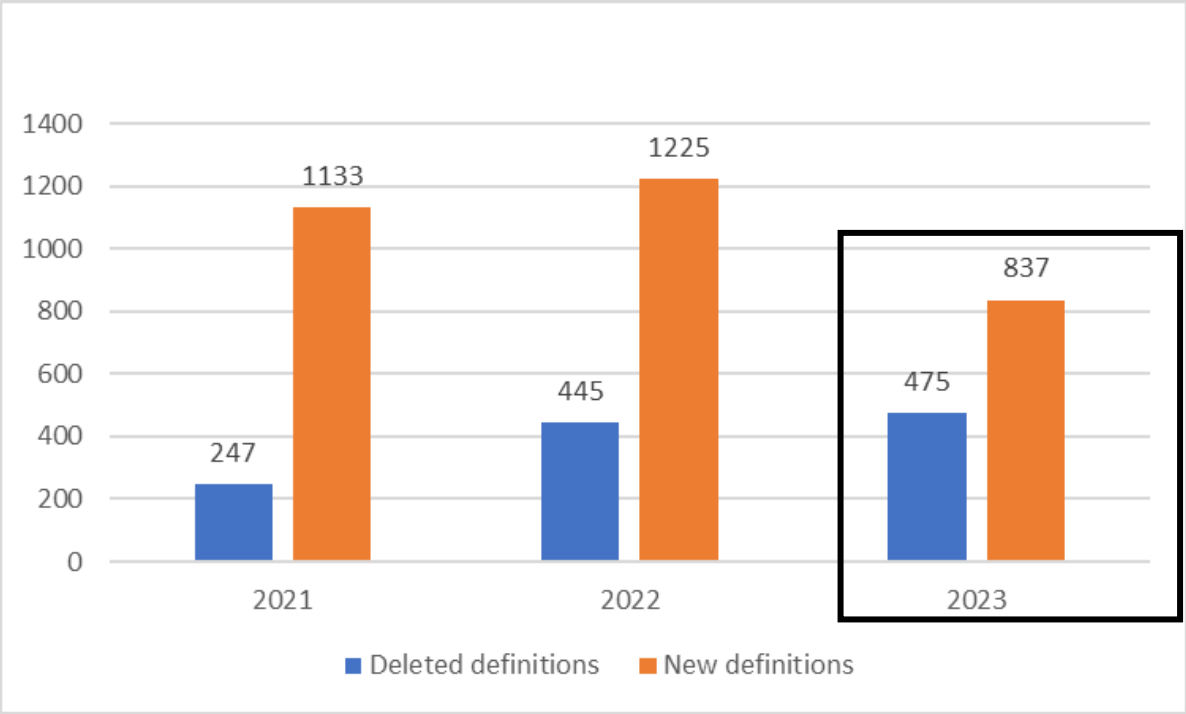
2022-2023 NoC publication data



Total scheme changes 2021-23



Total definition changes 2021-23



Combination sets (C-Sets) revisions

Yellow = revised C-Sets definitions have been completed and published between 2019-2022 in **12 subclasses**

Orange = C-Sets definitions currently under revision to be published in 2025 in **3 subclasses**

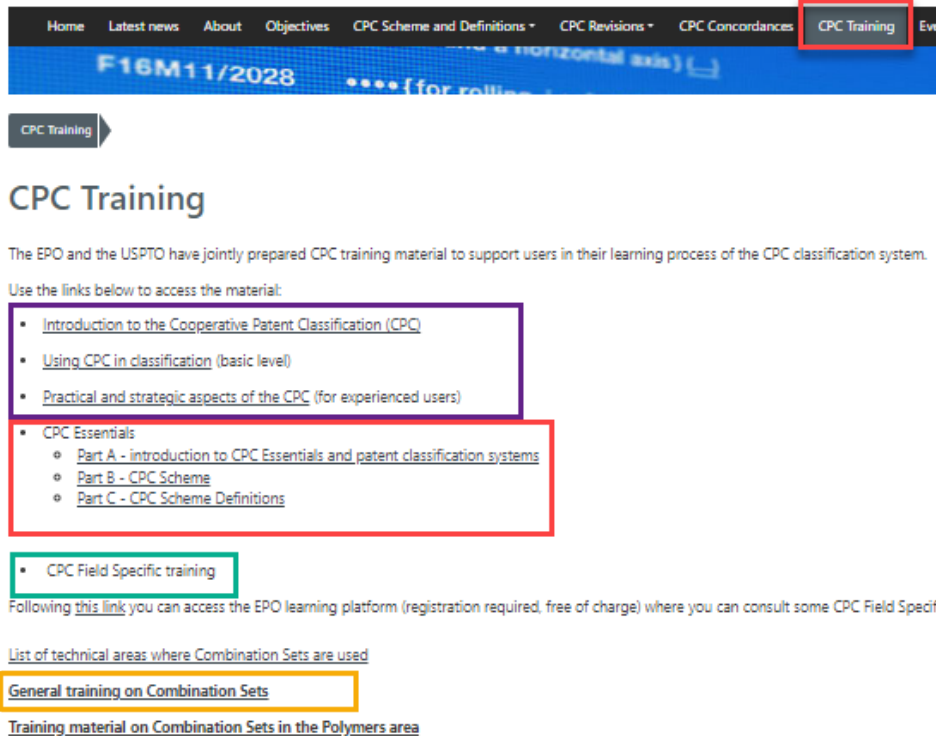
CPC sections	A	B	C	D	E	F	G	H
CPC Subclasses	A01N	B01D	C04B	D07B	None		G01N	H01L
	A23G	B01J	C05B				G02B	
	A23V	B05D	C05C					
	A61K	B22F	C05D					
	A61L	B29C	C05F					
	A61M	B32B	C05G					
		B65H	C07C					
			C08F					
			C08G					
			C08K					
			C08L					
			C09D					
			C09J					
			C10M					
		C12N						
		C12Q						

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 goal is to reclassify documents **within a year** past the publication date of their respective CPC releases.
- EPO and USPTO work to reclassify as many families as possible to minimize the reclassification workload of other offices.

CPC harmonisation and training

Want to know more about CPC classification practice?



The screenshot shows the website's navigation bar with 'CPC Training' highlighted. Below the navigation bar, the 'CPC Training' section is titled. A paragraph states: '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:'. A list of links is provided, with a red box highlighting 'Introduction to the Cooperative Patent Classification (CPC)', 'Using CPC in classification (basic level)', and 'Practical and strategic aspects of the CPC (for experienced users)'. A second red box highlights 'CPC Essentials' with sub-links for 'Part A - introduction to CPC Essentials and patent classification systems', 'Part B - CPC Scheme', and 'Part C - CPC Scheme Definitions'. A green box highlights 'CPC Field Specific training'. Below this, a paragraph says: 'Following this link you can access the EPO learning platform (registration required, free of charge) where you can consult some CPC Field Specific'. A yellow box highlights 'General training on Combination Sets'. At the bottom, a link is provided: 'Training material on Combination Sets in the Polymers area'.

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 2023 (March – June 2023)

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

Collective Training Events in 2024 (April - June 2024)

Fields to be defined. Any suggestion to cpc@epo.org

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 \(basic level\)](#)

- 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 or expertise.



The screenshot shows a webpage titled "CPC field-specific training: recorded lectures". The breadcrumb trail is "Learning centre > Courses > Courses > CPC field-specific training". The main heading is "INTRODUCTION" with an upward arrow. Below the heading, there is a paragraph: "This course consists of various recorded lectures in which expert examiners present their CPC technical fields. The presentations contain examples from most [CPC classification sections](#)". Another paragraph follows: "Below 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". A final paragraph states: "You can view each video in its entirety or simply watch those parts that interest you:". Below the text is a list of sections: "Section A", "Section B", "Section C", "Section F", "Section G", and "Section H", each with a downward arrow.

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

USPTO update: National Office CPC training

Customize unique technical expert training for individual offices
(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 update: National Office training

National Offices receiving field specific training in 2024

- INAPI Chile – first half of 2024
- Additional trainings in planning

USPTO update: external CPC training

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

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

Classification café overview



- A training series that establishes and builds upon base and/or expert level knowledge of CPC
- Introduces expert level technical training (including examples) on New Emerging Technology (NETs) areas
- Presents foundational core classification skills
 - Search
 - Retrieval
 - Examples

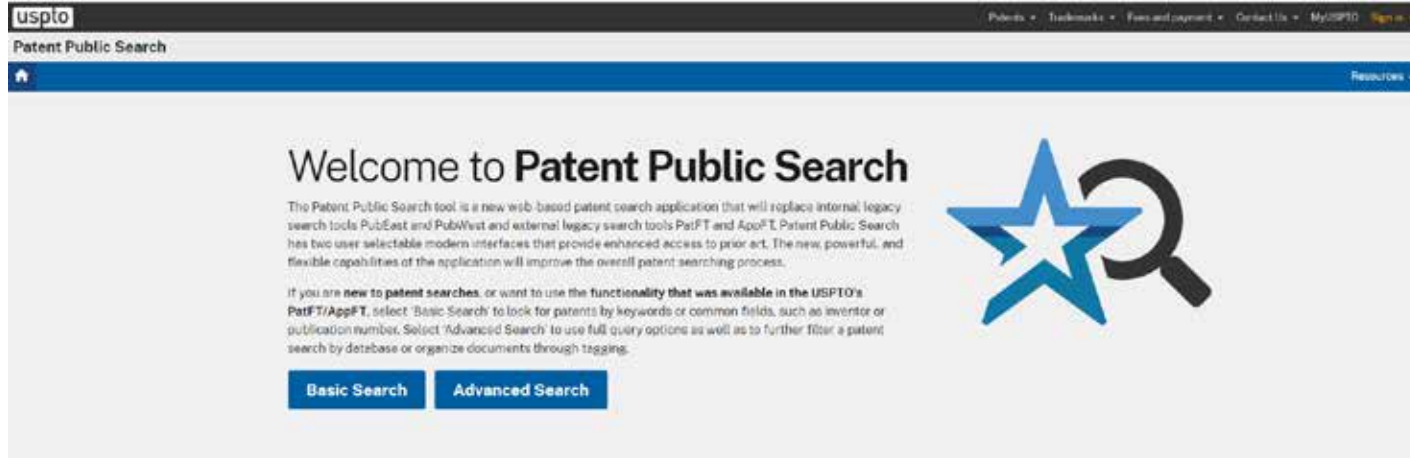
Classification café details



- Online workshops, in-person workshops or plenary sessions
- Intended audience:
 - Internal stakeholders
 - Classification staff
 - Contractors – search and classification
 - Examiners, supervisors
 - External stakeholders
 - Industrial users (e.g., patent search professionals from large and small business(es), universities, schools and law firms, entrepreneurs, etc.)
 - National Offices

USPTO specific updates

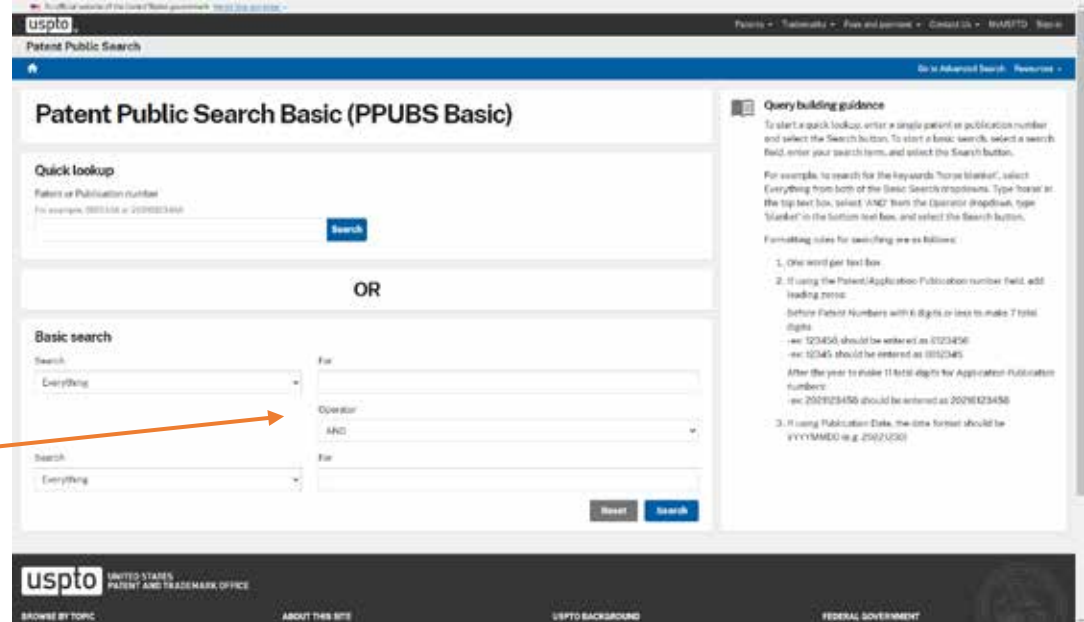
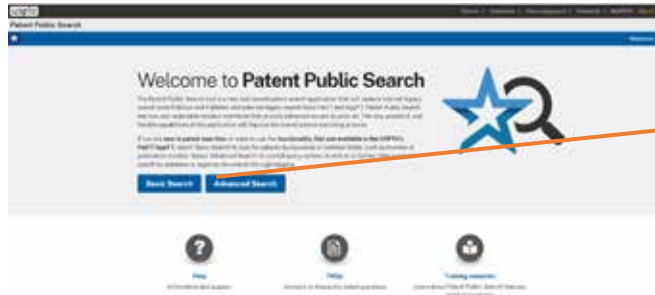
Patent public search at the USPTO: homepage



The screenshot shows the homepage of the Patent Public Search tool. At the top, there is a navigation bar with the USPTO logo on the left and links for Patents, Trademarks, Fees and payments, Contact Us, MyUSPTO, and Sign in on the right. Below the navigation bar, the page title "Patent Public Search" is displayed. The main content area features a large heading "Welcome to Patent Public Search" and a paragraph explaining the tool's purpose: "The Patent Public Search tool is a new web-based patent search application that will replace internal legacy search tools PubEast and PubWest and external legacy search tools PatFT and AppFT. Patent Public Search has two user-selectable modern interfaces that provide enhanced access to prior art. The new, powerful, and flexible capabilities of the application will improve the overall patent searching process." Below this text are two buttons: "Basic Search" and "Advanced Search". To the right of the text is a graphic of a blue star with a magnifying glass over it. At the bottom of the page, there are three circular icons with corresponding text: a question mark icon for "Help" (Information and support), a document icon for "FAQs" (Answers to frequently asked questions), and a book icon for "Training materials" (Learn about Patent Public Search features and functionalities).

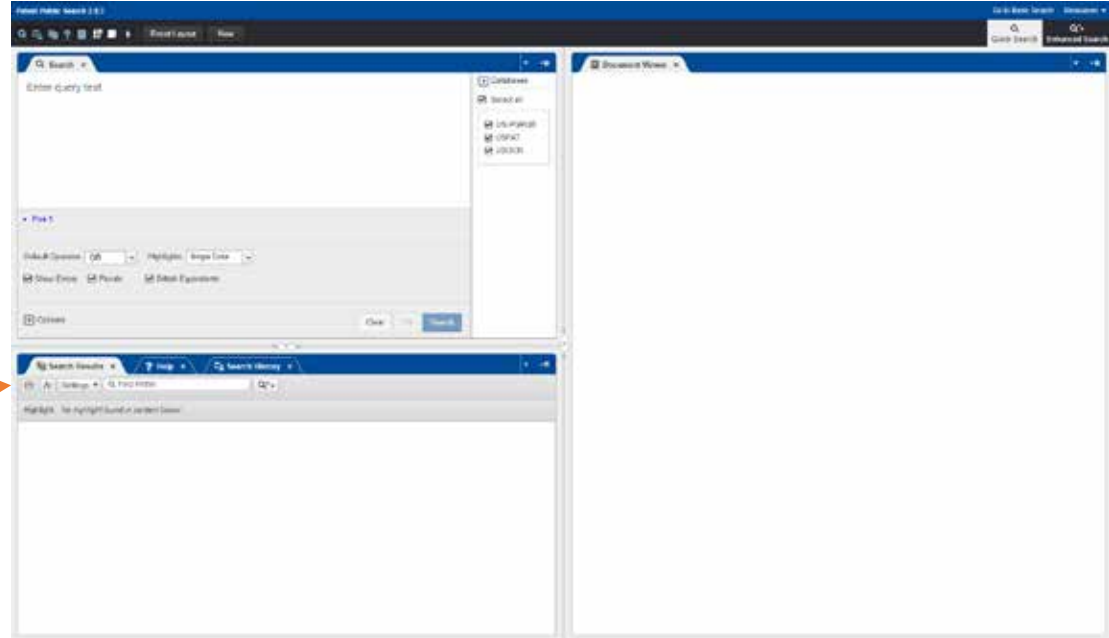
<https://ppubs.uspto.gov/pubwebapp/static/pages/landing.html>

Patent public search at the USPTO: basic



<https://ppubs.uspto.gov/pubwebapp/static/pages/landing.html>

Patent public search at the USPTO: advanced



<https://ppubs.uspto.gov/pubwebapp/static/pages/landing.html>

Patent public search at the USPTO: search results

The screenshot displays the USPTO Patent Public Search interface. The top navigation bar includes 'Patent Public Search 2.0.3' and 'Go to Basic Search Resources'. The search bar contains the query 'Lamination AND wood AND metal AND polyurethane'. The search results are displayed in a table with columns for 'Select', 'Res.', 'Doc. ID', 'Date Publish...', 'Family ID', and 'Pages'. The first result is highlighted in yellow.

Select	Res.	Doc. ID	Date Publish...	Family ID	Pages	T
<input checked="" type="checkbox"/>	1	US 20230002831 A1	2023-02-02	10000065	42	AC
<input type="checkbox"/>	2	US 20230003725 A1	2023-02-02	10000066	67	PF
<input type="checkbox"/>	3	US 20230006659 A1	2023-02-02	10000066	46	ST
<input type="checkbox"/>	4	US 20230004846 A1	2023-02-02	10000066	13	TF
<input type="checkbox"/>	5	US 20230002017 A1	2023-02-02	10000066	17	FL
<input type="checkbox"/>	6	US 20230002529 A1	2023-02-02	10000066	41	BA
<input type="checkbox"/>	7	US 20230006590 A1	2023-02-02	10000066	29	A1
<input type="checkbox"/>	8	US 20230004580 A1	2023-02-02	10000068	59	GC
<input type="checkbox"/>	9	US 11587240 B1	2023-01-31	10000066	14	Re
<input type="checkbox"/>	10	US 11545150 B1	2023-01-31	10000066	59	GC
<input type="checkbox"/>	11	US 11596330 B2	2023-01-31	10000068	13	De

The document viewer on the right shows the details for the selected patent (US 20230002831 A1). The title is 'ACTIVE ENERGY RAY POLYMERIZATION INITIATOR, ACTIVE ENERGY RAY CURING COMPOSITION, ACTIVE ENERGY RAY CURING INK, AQUEOUS ACTIVE ENERGY RAY CURING INK, CONTAINER, IMAGE FORMING DEVICE, IMAGE FORMING METHOD, AND METHOD OF MANUFACTURING ACTIVE ENERGY RAY POLYMERIZATION INITIATOR'. The inventor is HARADA, Shigeyuki, and the assignee is Ricoh Company, Ltd.

INVENTOR INFORMATION

NAME	CITY	STATE	ZIP CODE	COUNTRY
HARADA, Shigeyuki	Shizuoka	N/A	N/A	JP
Hirokawa, Wjys	Kanagawa	N/A	N/A	JP

ASSIGNEE INFORMATION

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ricoh Company, Ltd	Tokyo	N/A	N/A	JP

US CLASS CURRENT: 1/1

CPC CURRENT

TYPE	CPC	DATE
CPC	C 09 D 11/00	2013-01-01
CPC	C 09 D 181/00	2013-01-01

Abstract

An active energy ray polymerization initiator has a structure of Chemical Formula (1) or (2).

and TR0000198 L, sub 1 represents Chemical Formula (i), L, sub 2 represents Chemical Formula (ii), one of L, sub 3 and L, sub 4 and one of L, sub 5 and L, sub 6 represent the same group as L, sub 1, the rest of L, sub 3 and L, sub 4 and one of

<https://ppubs.uspto.gov/pubwebapp/static/pages/landing.html>

USPTO initiative

- USPTO has been exploring the use of AI/ML in classification of applications
- Currently being used to identify which of the CPC symbols assigned to an applications are relevant to the claims
- Further assessment and work being done on assigning CPC classification picture to application

Thank you for your attention!

More info?

www.cpcinfo.org

cpc@uspto.gov

cpc@epo.org

Annex

Acronyms

§ **CPC: Cooperative Patent Classification**

§ **USPTO: United States Patent and Trademark Office**

§ **EPO: European Patent Office**

§ **Country codes: Austria (AT), Argentina (AR), Australia (AU), Belgium (BE), Bulgaria (BG), Brazil (BR), Canada (CA), Switzerland (CH), Chile (CL), China (CN), Czech Republic (CZ), Denmark (DK), Eurasian Patent Organization (EA), Estonia (EE), Spain (ES), Finland (FI), United Kingdom (GB), Greece (GR), Hungary (HU), Israel (IL), Italy (IT), South Korea (KR), Luxembourg (LU), Latvia (LV), Morocco (MA), Monaco (MC), Mexico (MX), Netherlands (NL), Norway (NO), Peru (PE), Poland (PL), Portugal (PT), Romania (RO), Russia (RU), Sweden (SE) and Turkey (TR)**

§ **ECLA: European Classification System; ICO: In Computer Only; KW: Keyword**

§ **IPC: International Patent Classification**

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:**

