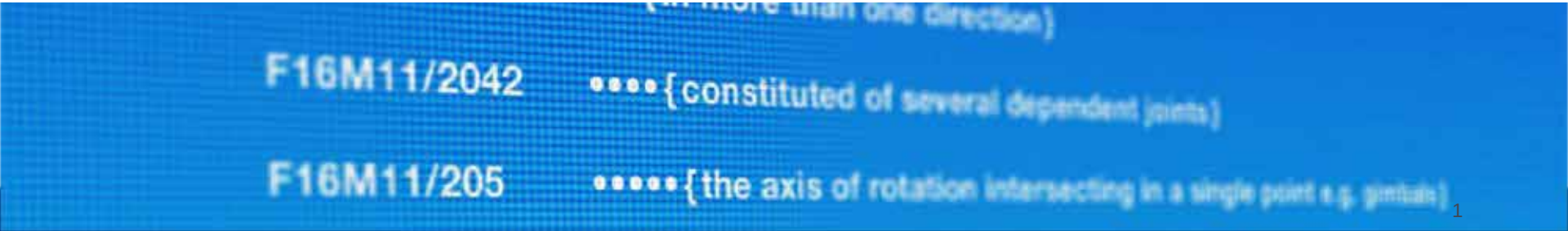
EPO-USPTO Eighth Cooperative Patent Classification Annual Meeting with industry users

29 March 2021, online



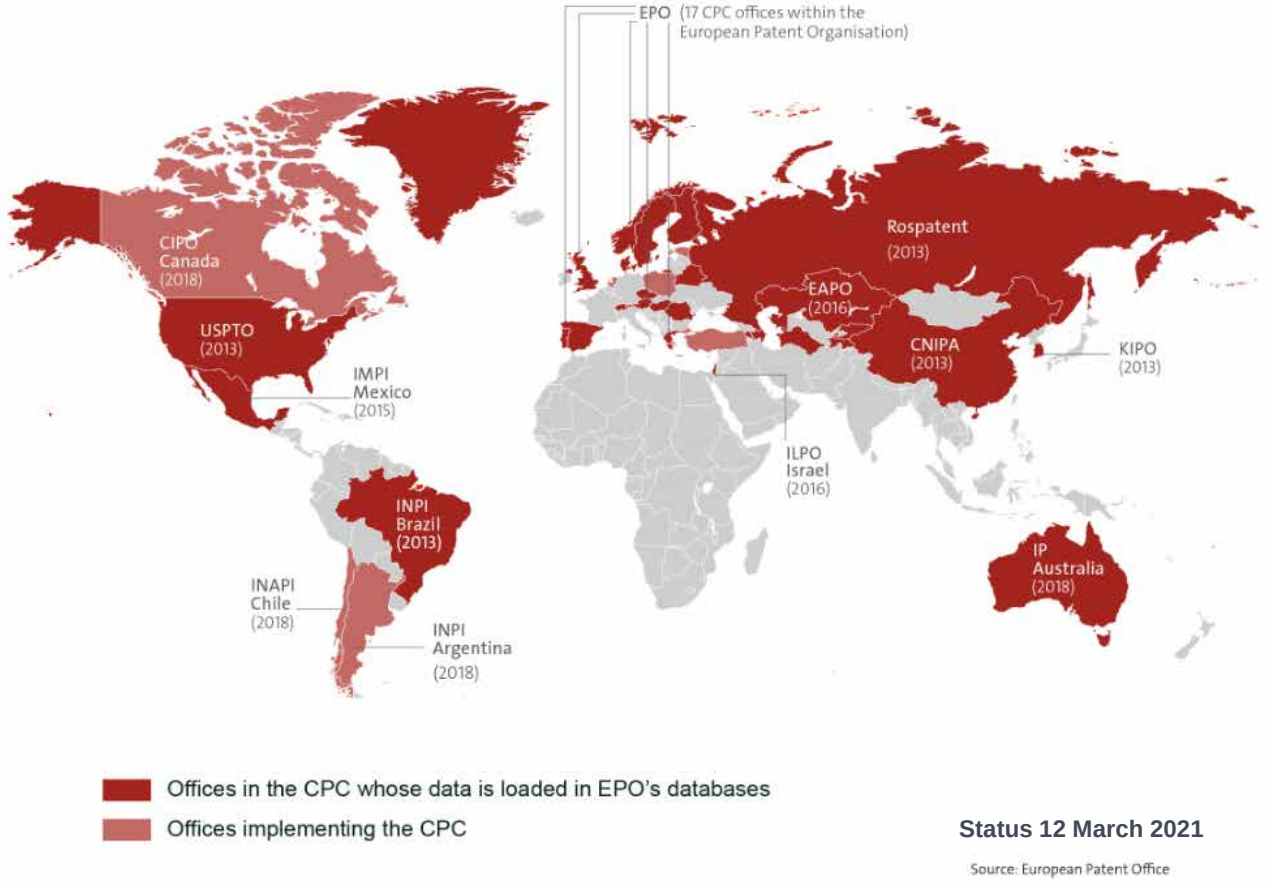
Agenda:

- § CPC co-operation
- § Maintenance of the CPC System
- § CPC Reclassification
- § Updates on the CPC
- § Open floor discussion

CPC co-operation

From a bilateral initiative to a global international classification system

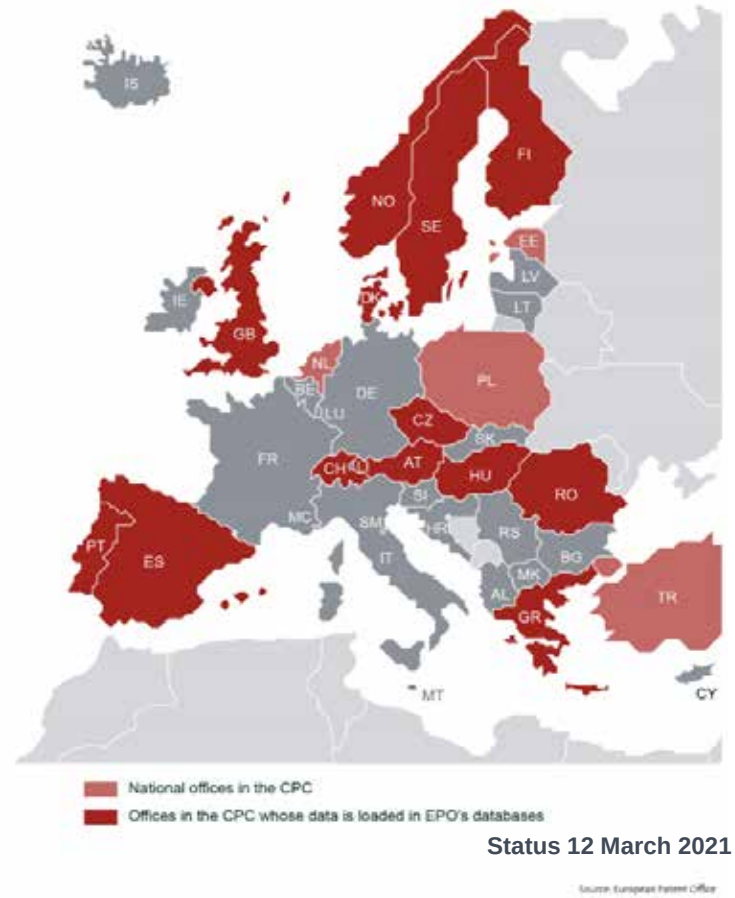
30 Offices participating in the CPC



IP Australia started sending CPC data in 2020.

- First office to use EPO's webservices
- First office to send CPC data for PCT

... including 17 EPO Member States



Romania joined the CPC in November 2020!

… and is sending CPC data for its B – publications, now available in EPO's databases since 12 March 2021

CPC coverage EPO core collection (1 March 2021)

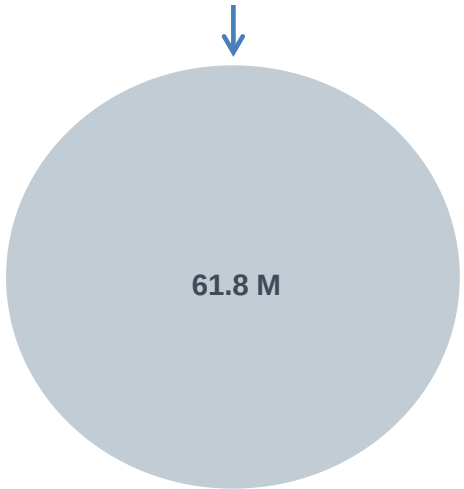
Country	Country Code	Total Number of Bibliographic Data Records (source: EPODOC on 01/03/2021)	Number of Bibliographic Data Records classified in CPC	% of Bibliographic Data Records classified in CPC
EPO	EP	3.776.468	3.774.414	99,9%
United States	US-A + US-B Docs	13.296.261	13.286.562	99,9%
Austria	AT	1.010.469	726.166	71,9%
Belgium	BE	592.076	557.469	94,2%
Switzerland	CH	720.395	581.753	80,8%
Germany	DE	5.833.796	5.033.873	86,3%
France	FR	2.476.352	2.456.199	99,2%
United Kingdom	GB	2.419.665	2.164.176	89,4%
Luxembourg	LU	63.730	62.729	98,4%
The Netherlands	NL	544.344	541.509	99,5%
ARIPO	AP	5.235	3.997	76,4%
Australia	AU	1.551.802	1.239.827	79,9%
Canada	CA	2.539.765	1.425.461	56,1%
OAPI	OA	13.433	13.216	98,4%
WIPO	WO	3.989.813	3.980.907	99,8%
	TOTAL	38.833.604	35.848.258	

CPC data sent by 21 CPC offices

Country	Country Code	Number of Bibl. Data Records classified by National Office (status 12 March 2021)
Australia	AU	6.459
Austria	AT	13.642
Brazil	BR	34.316
China	CN	6.297.606
Czech Republic	CZ	3.788
Denmark	DK	2.016
EAPO	EA	8.372
Finland	FI	14.715
Greece	GR	7.412
Hungary	HU	1.803
Israel	IL	6.721
Korea	KR	2.573.743
Mexico	MX	1.588
Norway	NO	11.679
Portugal	PT	929
Romania	RO	62
Russian Fed.	RU	182.469
Spain	ES	39.886
Sweden	SE	146.868
Switzerland	CH	5.133
United Kingdom	GB	173.484
	TOTAL	9.532.691

EPO core collection

+ CPC data from other offices
+ Family propagation
+ 1.5 M NPL documents



61.8 M documents classified in the CPC

CPC Implementation at the USPTO

- USPTO transitioning from USPC (United States Patent Classification) routing to **CPC routing**
  - Assignment of applications by CPC from October 2020.

- Research on artificial intelligence (AI) for classification ongoing

The USPTO also started

Search and Classification Examiners (SCE) Program:

- Approximately **140** SCEs from April 2020
  - o SCEs perform both examination and classification activities

- Classification related activities may include:
  - o Quality assurance of initial classification and reclassification
  - o Revision projects
  - o Technical field training
  - o Collaboration with EPO to ensure harmonized classification practices

Harmonisation plan EPO-USPTO

- **Bilateral agreements on classification practice**

- 140 USPTO Search and Classification Examiners (SCEs) and 676 EPO Classification Quality Nominees (Class-QNs)

- Series of meetings to reach agreement on the classification practice, producing lists of documents with agreed classification, elaborating guidance documents and creating revision projects if needed.

EPO’s Strategic Plan 2023 - Classification

Artificial Intelligence to support CPC processes:

Preclassification – file allocation
Reclassification
Classification

Considering **classification at passage level**

… while ensuring business continuity !

EPO’s Strategic Plan 2023 - Classification

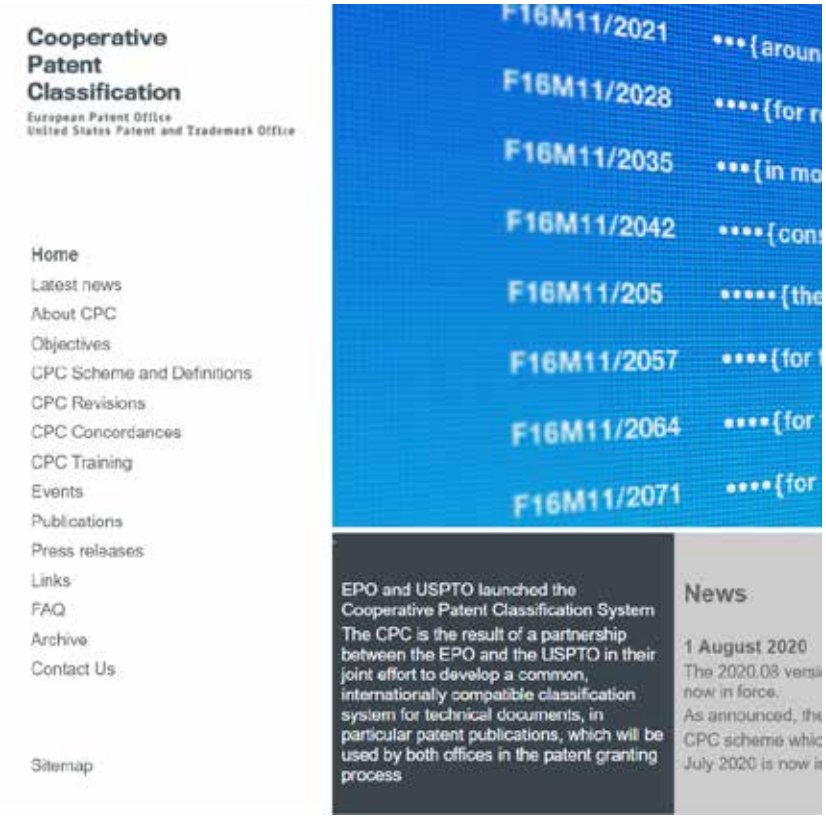
CPC cooperation with the USPTO:

- Harmonisation plan (USPTO SCEs – EPO QNs)
- CPC revision backlog reduced to virtual zero (over 200 projects)
- Streamlined revision process: 9 months from start to “sent to publication”
- Improvement IT infrastructure

International Cooperation in Classification – CPC cooperation

- CPC extension to more offices
- CPC training and quality feedback
- IT support for CPC implementation
- Improved services to offices, industry users and the public at large

Revamping the CPC website (cpcinfo.org)



- Website launched Oct 2012
- Needs to be revamped!
- Start work second half of 2021
- Any feedback / ideas to cpc@epo.org; cpc@uspto.gov

CPC on EPO publications

Currently, CPC information is provided via the EPO’s bulk data sets DOCDB and INPADOC, and made searchable through Espacenet

Full classification at publication is now a reality: over 80% of all patent applications searched at the EPO are fully classified in CPC by the time of publication

CPC will be included in **EPO’s publication server**, **Bulletin** and **Patent Register** according to a staged approach in 2021

CPC on EPO publications

§ **Displaying CPC** on EPO publications:

§ **No date next to CPC symbols:** displayed symbols are valid under the CPC release in force at the time of publication!

CPC on EPO publications

- **Combination Sets:** not displayed (but presence of C-Sets could be indicated, e.g. “C-Sets available”)

- **Display all CPC symbols?** No, a limited number will be displayed

Discussion:

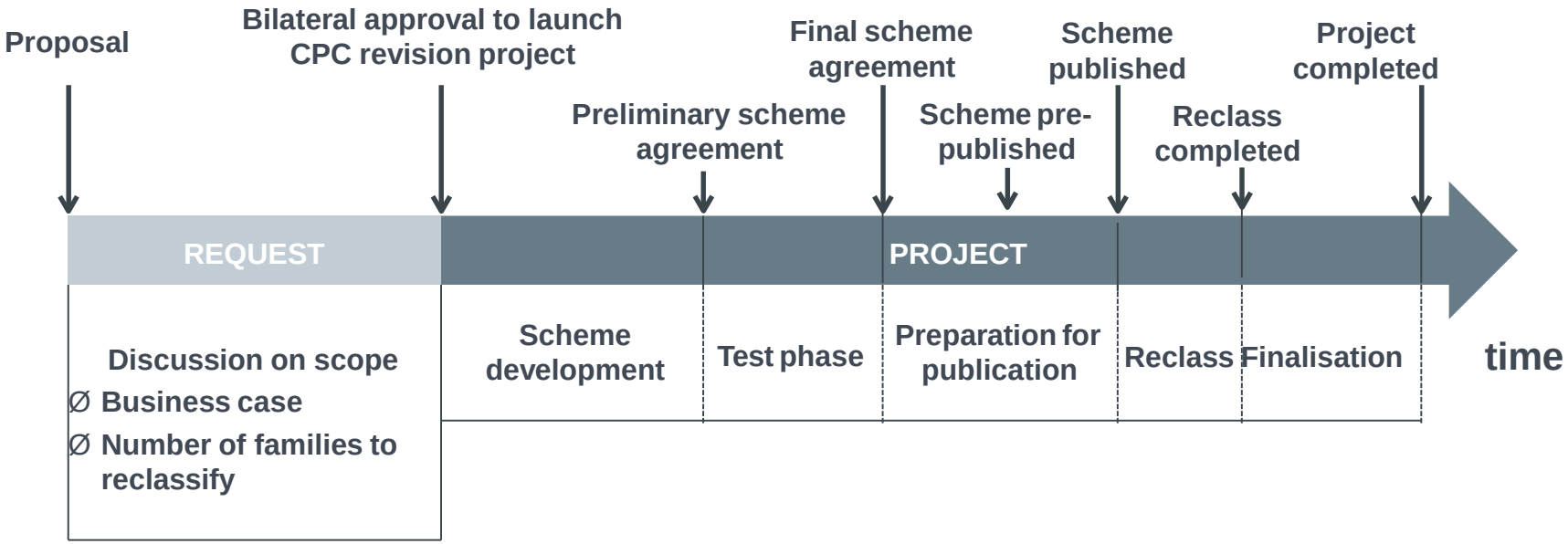
- In which regions would you like the CPC to be implemented in the future?
- Any feedback on inclusion of CPC on EP publications?
- Any feedback on the bilateral CPC website (www.cpcinfo.org)?
- What could the EPO/USPTO do to support you with CPC data?

Maintenance of the CPC system

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

- Four CPC releases in **2021**:

The CPC revision process



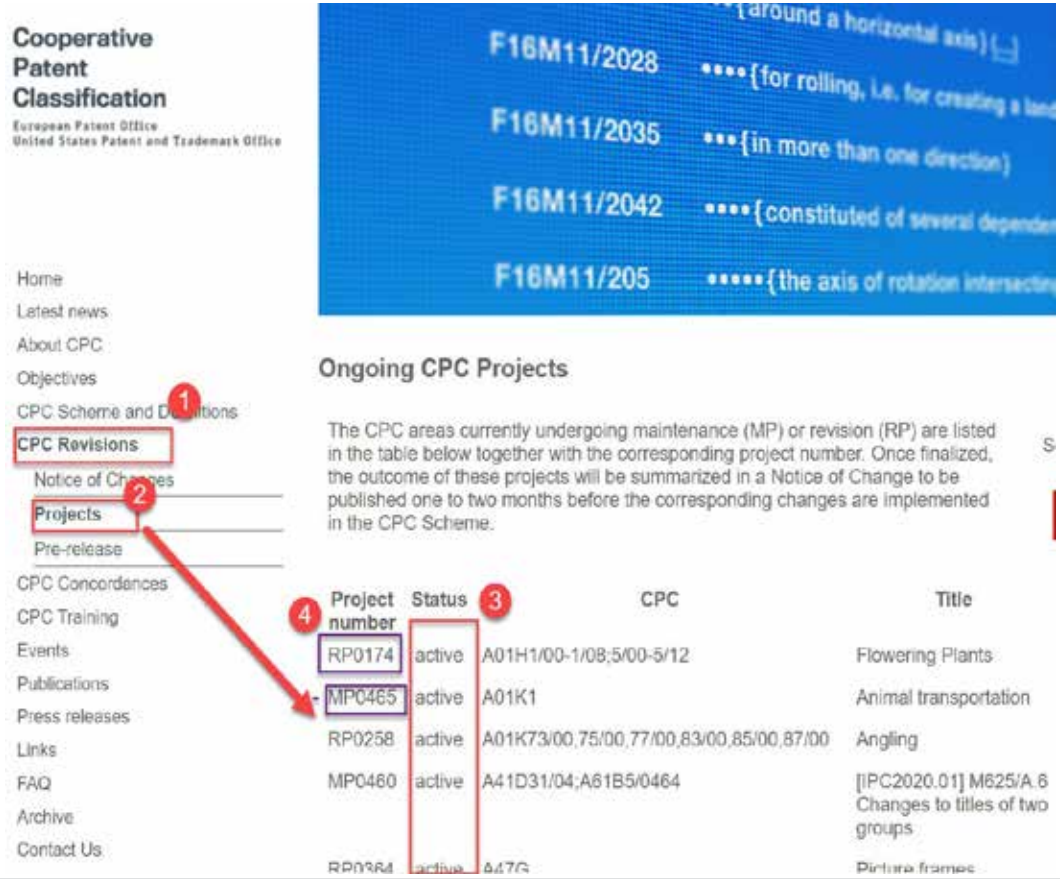
The CPC revision process:

In 2020 following **goals achieved bilaterally** by the USPTO and the EPO**:**

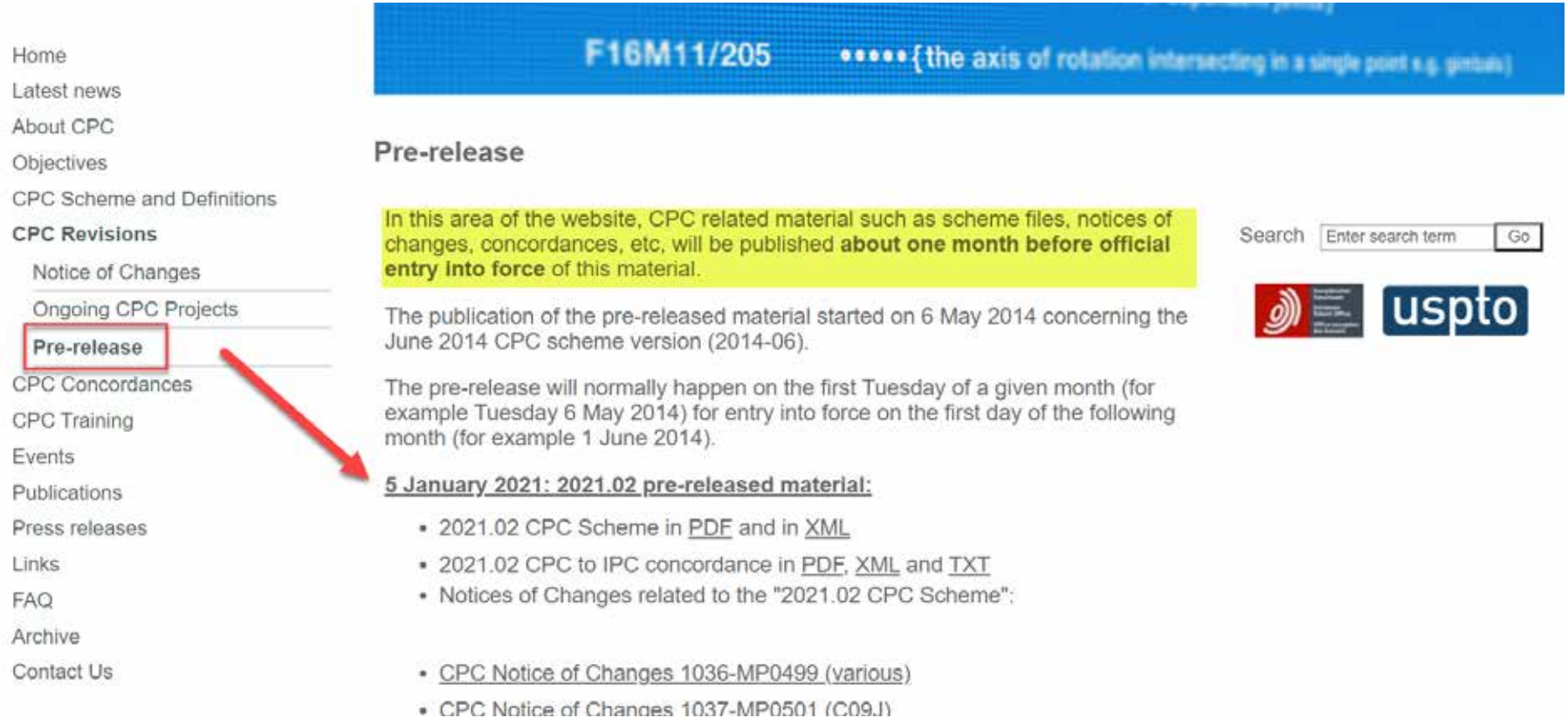
- New IPC scheme introduced in CPC
- Backlog of CPC revisions brought to zero in August 2020
- CPC revision process streamlined: 9 months from start to send to publication
- Highest-ever number of CPC revision projects published (**211**)

In which areas are projects running?

§ The list of active projects can be retrieved from cpcinfo.org



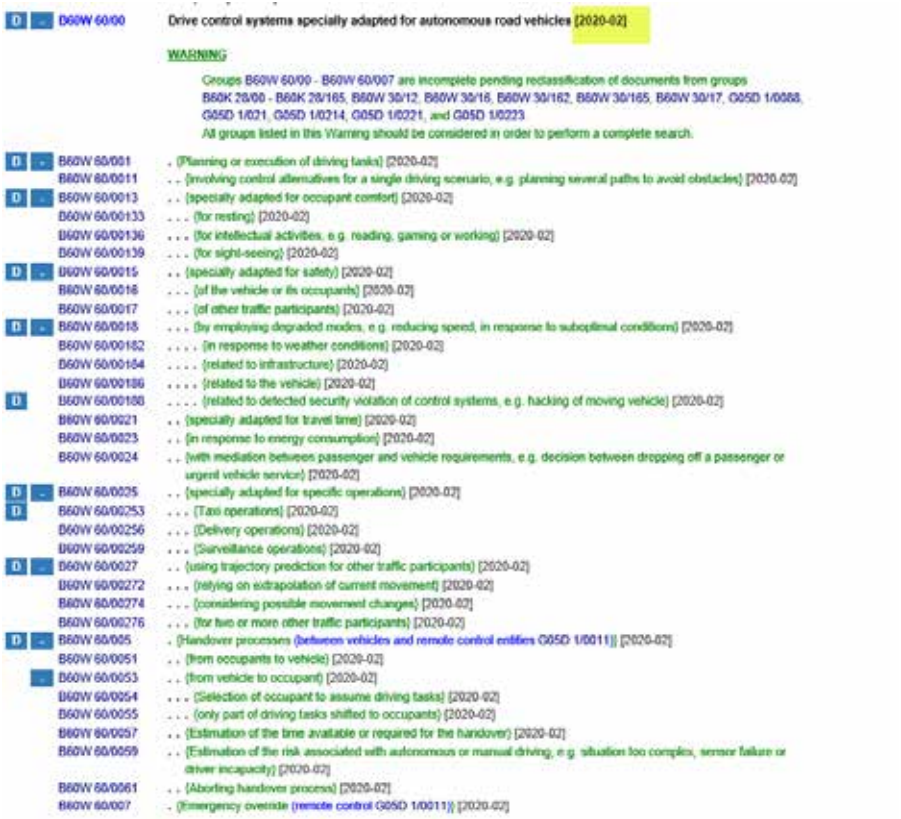
CPC revisions – pre-release area



CPC Notices of Changes (NoC) publications:

January	54	12	5	71
February	9	1	2	12
May	55	3	13	71
August	47	1	9	57
January	56	10	22	88
February	7	9	0	16

Example of new CPC scheme release after completion of RP0621:



B60W 60/00 Drive control systems specially adapted for autonomous road vehicles [2020-02]

WARNING

Groups B60W 60/00 - B60W 60/007 are incomplete pending reclassification of documents from groups B60K 28/00 - B60K 28/165, B60W 30/12, B60W 30/16, B60W 30/162, B60W 30/165, B60W 30/17, G05D 1/0088, G05D 1/021, G05D 1/0214, G05D 1/0221, and G05D 1/0223

All groups listed in this Warning should be considered in order to perform a complete search.

B60W 60/001 . {Planning or execution of driving tasks} [2020-02]
B60W 60/0011 . . {involving control alternatives for a single driving scenario, e.g. planning several paths to avoid obstacles} [2020-02]
B60W 60/0013 . . {specially adapted for occupant comfort} [2020-02]
B60W 60/00133 . . . {for resting} [2020-02]
B60W 60/00136 . . . {for intellectual activities, e.g. reading, gaming or working} [2020-02]
B60W 60/00139 . . . {for sight-seeing} [2020-02]
B60W 60/0015 . . {specially adapted for safety} [2020-02]
B60W 60/0016 . . . {of the vehicle or its occupants} [2020-02]
B60W 60/0017 . . . {of other traffic participants} [2020-02]
B60W 60/0018 . . . {by employing degraded modes, e.g. reducing speed, in response to suboptimal conditions} [2020-02]
B60W 60/00182 . . . . {in response to weather conditions} [2020-02]
B60W 60/00184 . . . . {related to infrastructure} [2020-02]
B60W 60/00186 . . . . {related to the vehicle} [2020-02]
B60W 60/00188 . . . . {related to detected security violation of control systems, e.g. hacking of moving vehicle} [2020-02]
B60W 60/0021 . . {specially adapted for travel time} [2020-02]
B60W 60/0023 . . {in response to energy consumption} [2020-02]
B60W 60/0024 . . {with mediation between passenger and vehicle requirements, e.g. decision between dropping off a passenger or urgent vehicle service} [2020-02]
B60W 60/0025 . . {specially adapted for specific operations} [2020-02]
B60W 60/00253 . . . {Taxi operations} [2020-02]
B60W 60/00256 . . . {Delivery operations} [2020-02]
B60W 60/00259 . . . {Surveillance operations} [2020-02]
B60W 60/0027 . . {using trajectory prediction for other traffic participants} [2020-02]
B60W 60/00272 . . . {relying on extrapolation of current movement} [2020-02]
B60W 60/00274 . . . {considering possible movement changes} [2020-02]
B60W 60/00276 . . . {for two or more other traffic participants} [2020-02]
B60W 60/005 . {Handover processes (between vehicles and remote control entities G05D 1/0011)} [2020-02]
B60W 60/0051 . . {from occupants to vehicle} [2020-02]
B60W 60/0053 . . {from vehicle to occupant} [2020-02]
B60W 60/0054 . . . {Selection of occupant to assume driving tasks} [2020-02]
B60W 60/0055 . . . {only part of driving tasks shifted to occupants} [2020-02]
B60W 60/0057 . . {Estimation of the time available or required for the handover} [2020-02]
B60W 60/0059 . . {Estimation of the risk associated with autonomous or manual driving, e.g. situation too complex, sensor failure or driver incapacity} [2020-02]
B60W 60/0061 . . {Aborting handover process} [2020-02]
B60W 60/007 . {Emergency override (remote control G05D 1/0011)} [2020-02]

RP0621

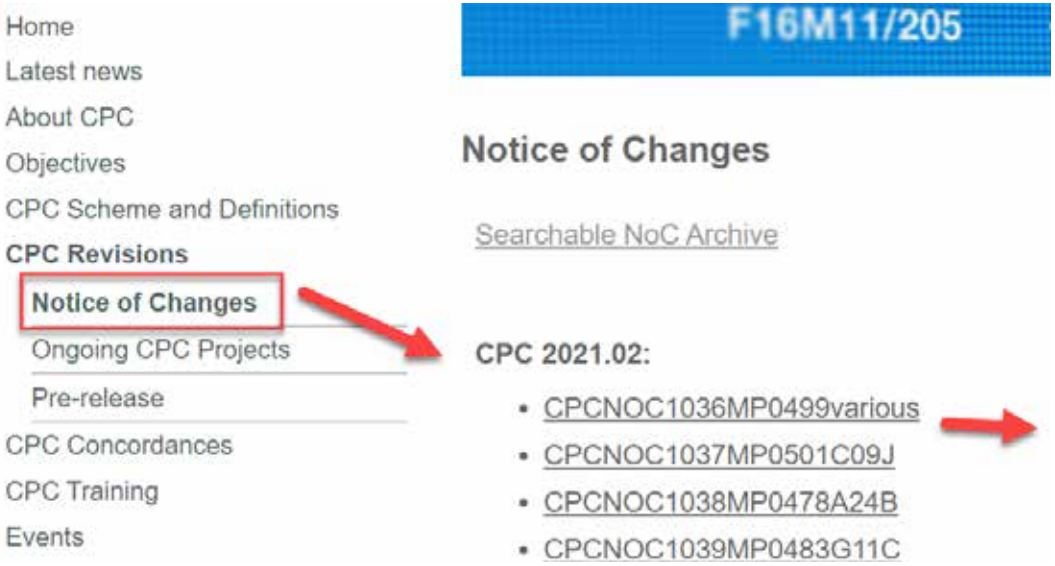
New Emerging Technology:
B60W 60/00 (Autonomous Vehicles)

- 126 new groups in the scheme
- 13 new definitions for new group(s), subgroup(s)

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




EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1037

DATE: FEBRUARY 1, 2021

PROJECT MP0501

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

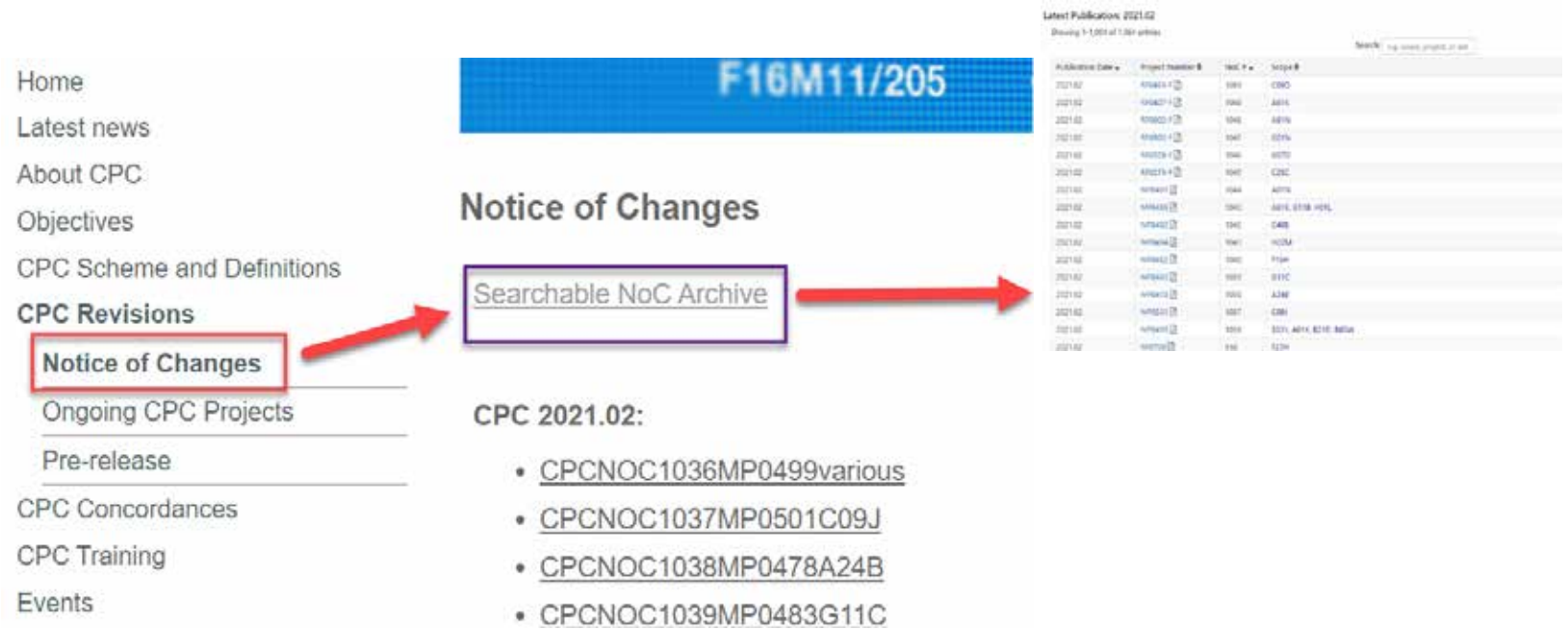
Action	Subclass	Group(s)
SCHEME:		
Titles Changed:	C09J	Subclass
Notes Modified:	C09J	Subclass
DEFINITIONS:		
Definitions Modified:	C09J	Subclass

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

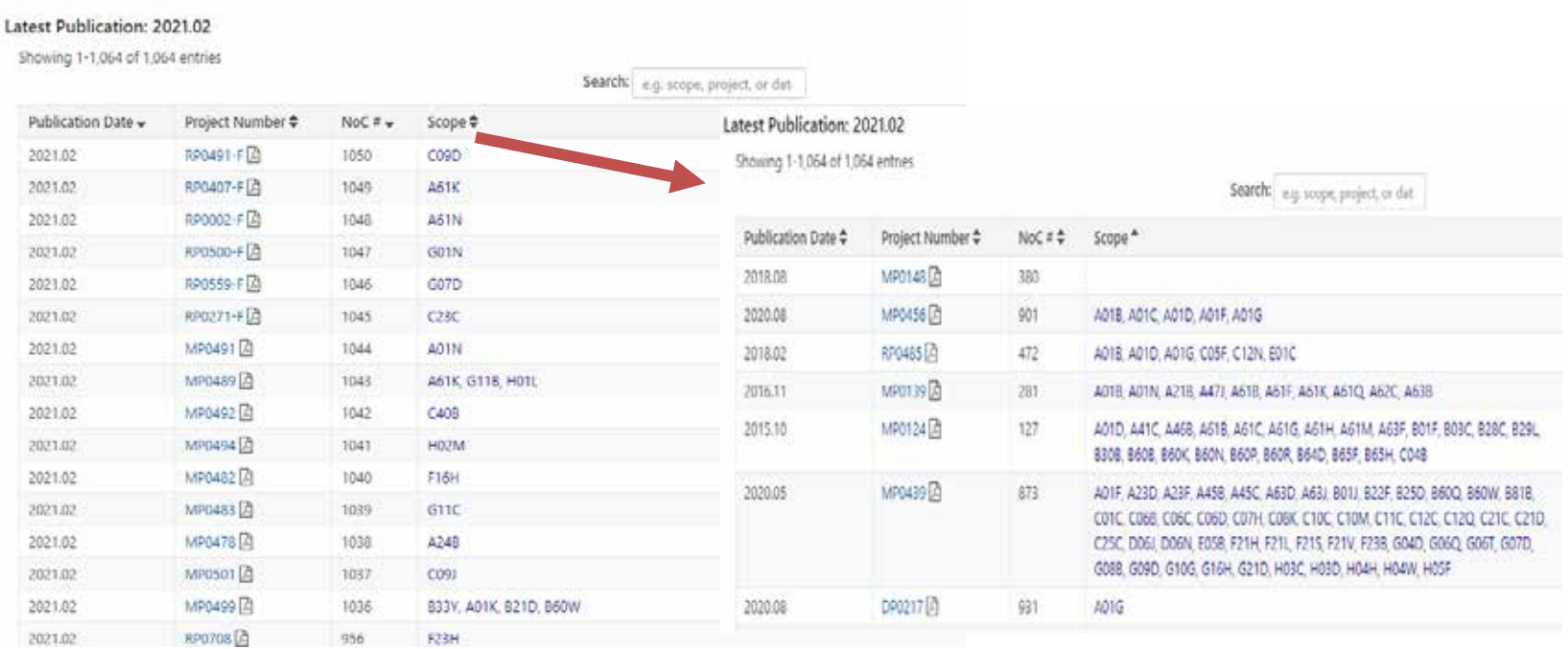
This Notice of Changes includes the following *[Check the ones included]:*

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)
5. ☐ CHANGES TO THE CROSS-REFERENCE LIST (CRL)

Past NoCs are searchable!



Searchable NoC archive



Latest Publication: 2021.02

Showing 1-1,064 of 1,064 entries

Search: e.g. scope, project, or dat

Publication Date	Project Number	NoC #	Scope
2021.02	RP0491-F	1050	C09D
2021.02	RP0407-F	1049	A61K
2021.02	RP0002-F	1048	A61N
2021.02	RP0500-F	1047	G01N
2021.02	RP0559-F	1046	G07D
2021.02	RP0271-F	1045	C23C
2021.02	MP0491	1044	A01N
2021.02	MP0489	1043	A61K, G11B, H01L
2021.02	MP0492	1042	C40B
2021.02	MP0494	1041	H02M
2021.02	MP0482	1040	F16H
2021.02	MP0483	1039	G11C
2021.02	MP0478	1038	A24B
2021.02	MP0501	1037	C09J
2021.02	MP0499	1036	B33Y, A01K, B21D, B60W
2021.02	RP0708	956	F23H

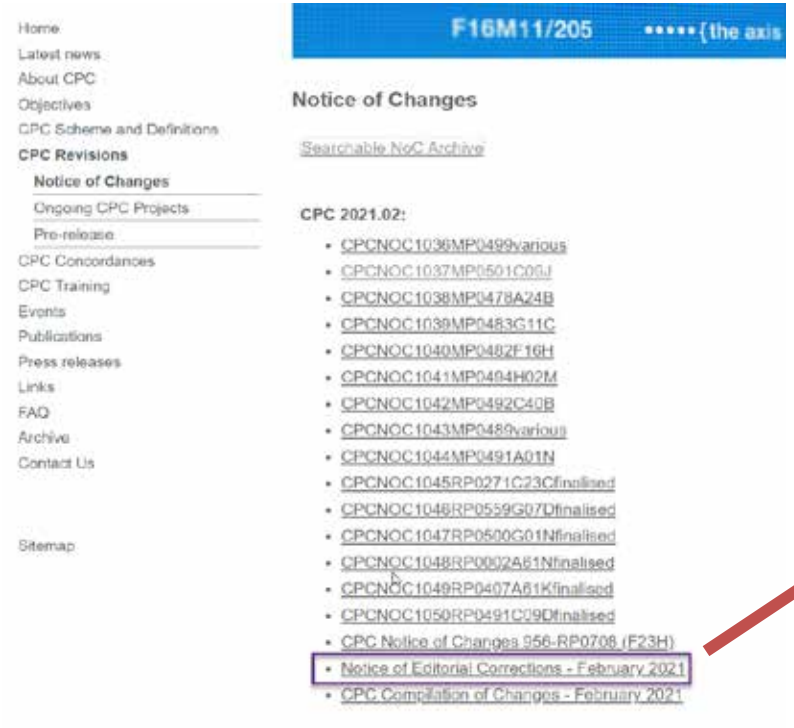
Latest Publication: 2021.02

Showing 1-1,064 of 1,064 entries

Search: e.g. scope, project, or dat

Publication Date	Project Number	NoC #	Scope
2018.08	MP0148	380	
2020.08	MP0456	901	A01B, A01C, A01D, A01F, A01G
2018.02	RP0485	472	A01B, A01D, A01G, C05F, C12N, E01C
2016.11	MP0139	281	A01B, A01N, A21B, A47J, A61B, A61F, A61K, A61Q, A62C, A63B
2015.10	MP0124	127	A01D, A41C, A46B, A61B, A61C, A61G, A61H, A61M, A63F, B01F, B03C, B28C, B29L, B30B, B60B, B60K, B60N, B60P, B60R, B64D, B65F, B65H, C04B
2020.05	MP0439	873	A01F, A23D, A23F, A45B, A45C, A63D, A63J, B01J, B22F, B25D, B60Q, B60W, B81B, C01C, C06B, C06C, C06D, C07H, C08K, C10C, C10M, C11C, C12C, C12Q, C21C, C21D, C25C, D06J, D06N, E05B, F21H, F21L, F21S, F21V, F23B, G04D, G06Q, G06T, G07D, G08B, G09D, G10G, G16H, G21D, H03C, H03D, H04H, H04W, H05F
2020.08	DP0217	931	A01G

Additional files available after the list of NoCs



EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

NOTICE OF EDITORIAL CORRECTIONS

PUBLICATION DATE: FEBRUARY 1, 2021

Summary of Editorial Corrections

The following corrections have been made to errors found late in the processing of CPC projects or after CPC projects have been published. Additional minor corrections to the scheme and definitions not associated with CPC projects are also included.

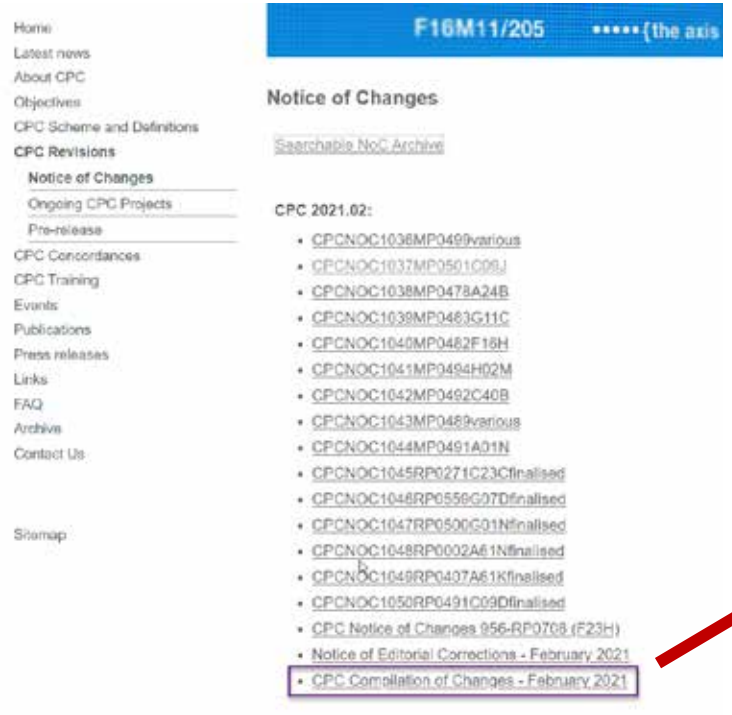
ADDITIONAL SCHEME CORRECTIONS:

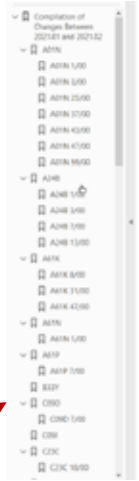
Scheme Corrections	
Location in CPC	**Correction**
A61P 7/04	In the scheme title, replace the term Haemostatatic with the following term Haemostatic

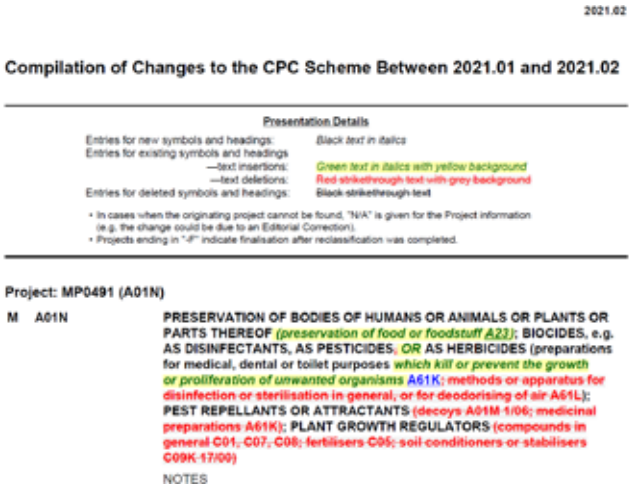
ADDITIONAL DEFINITION CORRECTIONS:

Definition Corrections	
Location in CPC	**Correction**
B32B 27/32	In the "Limiting references" section, replace B32B 5/02 with B32B 27/30
H01M 50/00	In the "Informative references" section, for the reference D04H, replace the term "form" with "from"

Additional files available after the list of NoCs







Synchronisation IPC/CPC

- **Synchronisation** of IPC changes into CPC is **essential**!
- **All IPC 2021.01 changes were introduced into the CPC** on 1 January 2021
- Required **strict timeline** between the IPC early publication (1 July 2020) and implementation of changes in the CPC by first week of August 2020

Discussion

§ Do you have enough information on CPC Revisions?

Break (10 mins)

CPC Reclassification

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.

EPO had at the beginning of 2020 a reclassification backlog of 159.712 documents which was reduced to 17.612 documents at the end of the year (89% reduction).

USPTO reclassified 155.244 documents during FY 2020.

Discussion on CPC reclassification matters

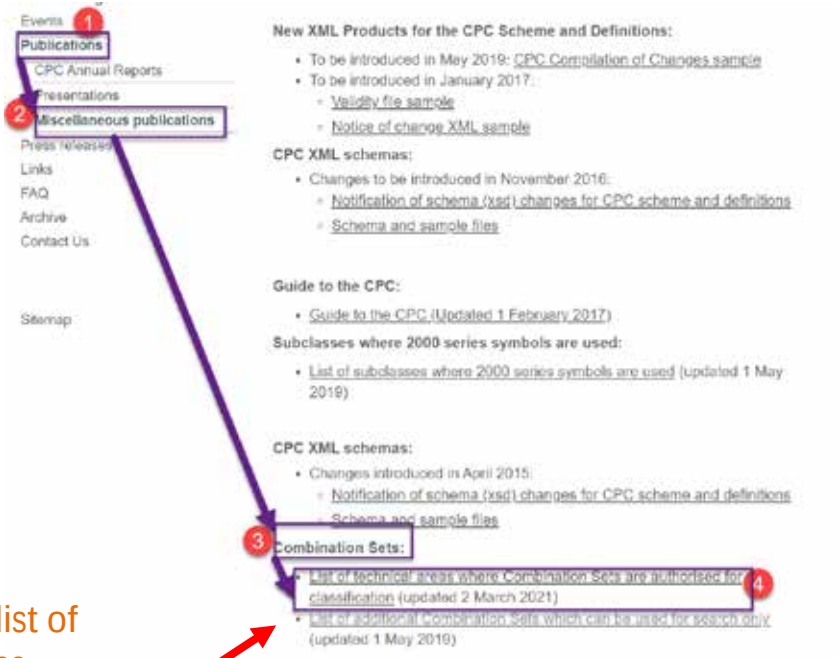
Updates on the CPC

Combination Sets (C-Sets)

§ **Updated table published March 2021**

§ **Projects to harmonize detailed definitions** for the use of C-Sets in the area of polymers such as C08F, C08G, C08K, C08L, C09D, C09J **completed** in January 2020 and B32B.

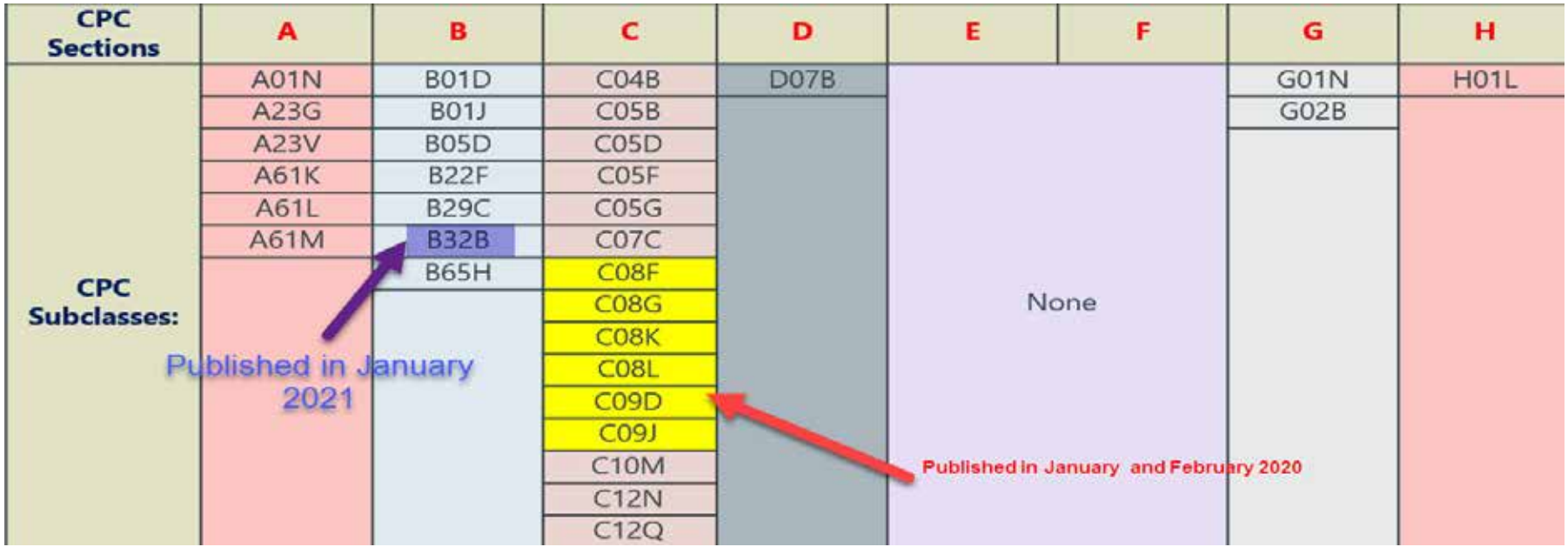
§ **Projects to clean outdated information** on C-Sets in the non-authorized areas **completed**.



New revised list of technical areas where Combination sets are authorized published Mar 2021

Combination Sets (C-Sets)

Subclasses where C-sets are authorized (status March 2021):



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

Use of C-Sets in Notes in the scheme

CPC
B32B

COOPERATIVE PATENT CLASSIFICATION
LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM

NOTES

1. This subclass covers:
   - layered products comprising different kinds of material or layered products not characterised by the particular kind of material used;
   - a product similar to a layered product but comprising only material in the form of a sheet or network embedded in a mass of plastics or of physically-similar substances which mass penetrates the said sheet or network and lies on both sides of the latter (e.g. so that the sheet or network reinforces the plastics substance) PROVIDED THAT the embedded sheet or network extends coherently or connectedly over substantially the whole area of the product; thus the embedded sheet or network may be a fabric or a series of rods connected by cross wires. The manner of making such a product is, however, classified in this subclass only if it is essentially a process of building-up an assembly of layers of which at least one outer layer is preformed. If the embedded material comprises only a series of unconnected rods, the product is not classified in this subclass.
2. This subclass does not cover:
   - processes or apparatus used in, or in connection with, the production or treatment of any product, if the process or apparatus is fully classifiable in a single other class or subclass for processes or apparatus, e.g. B05, B29, B44D, C08J, C09J, C23;
   - compositions or preparation or treatment thereof, unless they are essentially restricted to layered products and cannot be fully classified in another class without ignoring this restriction;
   - etched metallic pattern on the surface of a printed circuit board.
3. In this subclass:

8. {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 of B32B.}

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B32B3/24	covered by	B32B 3/266
B32B17/12	covered by	B32B 17/067

groups B29C 45/16 or B29C 48/18.

6. {In this subclass,}
   - The classification of layered products is provided for in many classes, most of which are confined to a particular kind of material. However, in order that this subclass may provide a basis for making a complete search with respect to layered products, all relevant subject matter is classified in this subclass even though it may also be classified in other classes.
7. {In groups B32B 37/00, B32B 38/00, B32B 41/00 and B32B 39/00, the following expressions are used with the meaning indicated:
   - "lay-up" is considered to be the action of combining separate layers, one on top of the other, in order to form a half-product for entering the laminating process
   - "laminating" means the action of combining previously unconnected but possibly laid up layers to become one product whose layers will remain together;
   - "partial laminating" occurs when one layer does not fully cover a surface of another layer, whereby the layer with the greater surface area is laminated on only part of its surface or when two coextensive layers are bonded on only part of their facing surfaces;
   - "adhesive" means a substance applied to one plate or to one member which has bonding properties
   }
8. {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 of B32B.}

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B32B3/24	covered by	B32B 3/266
B32B17/12	covered by	B32B 17/067

C-sets notification in definitions

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 definition section "Special rules of classification".

C-Sets ID	Base Symbols	Subsequent Symbols	C-Sets Formula; Location of C-Sets Rules
#B32Ba	B32B 17/10005	B32B 2319/00 – B32B 2386/00	(B32B 17/10005, B32B 2319/00 – B32B 2386/00), laminated safety glass structure comprising a polymeric intermediate layer sandwiched between interlayers, and the polymeric material of the polymeric intermediate layer; see B32B 17/10005.

The specific C-Sets rule is located at only one place of the base symbol in the section "Special rules of classification" in the definition. If the C-Sets rule is applicable to all groups of a subclass, it is located at the subclass level only. If the same C-Sets rule is applicable to multiple groups or subgroups within the same subclass, the C-Sets rule is placed at the highest group or subgroup of the multiple groups.

C-sets notification in definitions

Special rules of classification

Laminated safety glass comprising at least one layer of inorganic glass, a resin interlayer and an external layer of a synthetic polymeric sheet or film is classified using the appropriate group selected from B32B 17/10009 - B32B 17/1099 together with the B32B 2319/00 - B32B 2386/00 orthogonal Indexing symbol that designates the polymeric material of said external polymer layer as a single symbol.

The presence of resin interlayers, their properties and/or their compositions are further specified in groups B32B 17/1055 - B32B 17/10798.

When B32B 17/10005 is used as a base symbol in C-Sets, it is not allocated as a separate single symbol.

Combination sets (C-Sets):

C-Sets statement: #B32Ba

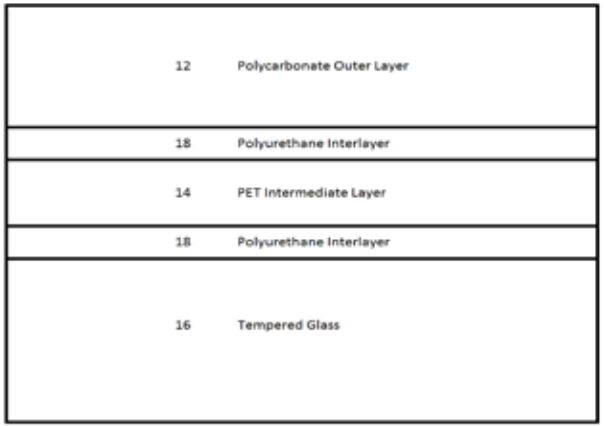
- In subgroup B32B 17/10005, the polymeric material of an intermediate layer sandwiched between interlayers of a laminated safety glass or glazing is classified in the form of C-Sets.
- In #B32Ba, the base symbol, representing the laminated safety glass structure comprising an interlayer adjacent the glass, is taken from subgroup B32B 17/10005, whereas the subsequent symbol representing the nature of the polymeric material of the intermediate layer sandwiched between interlayers is taken from the groups B32B 2319/00 - B32B 2386/00.
- When the polymeric intermediate layer comprises a mixture of polymeric materials taken from B32B 2319/00 - B32B 2386/00, separate C-Sets are given based on each polymeric material as the subsequent symbol.
- B32B 17/10005 is not allocated as a separate single symbol when it is allocated as a base symbol in a C-Set.

C-Sets syntax rules:

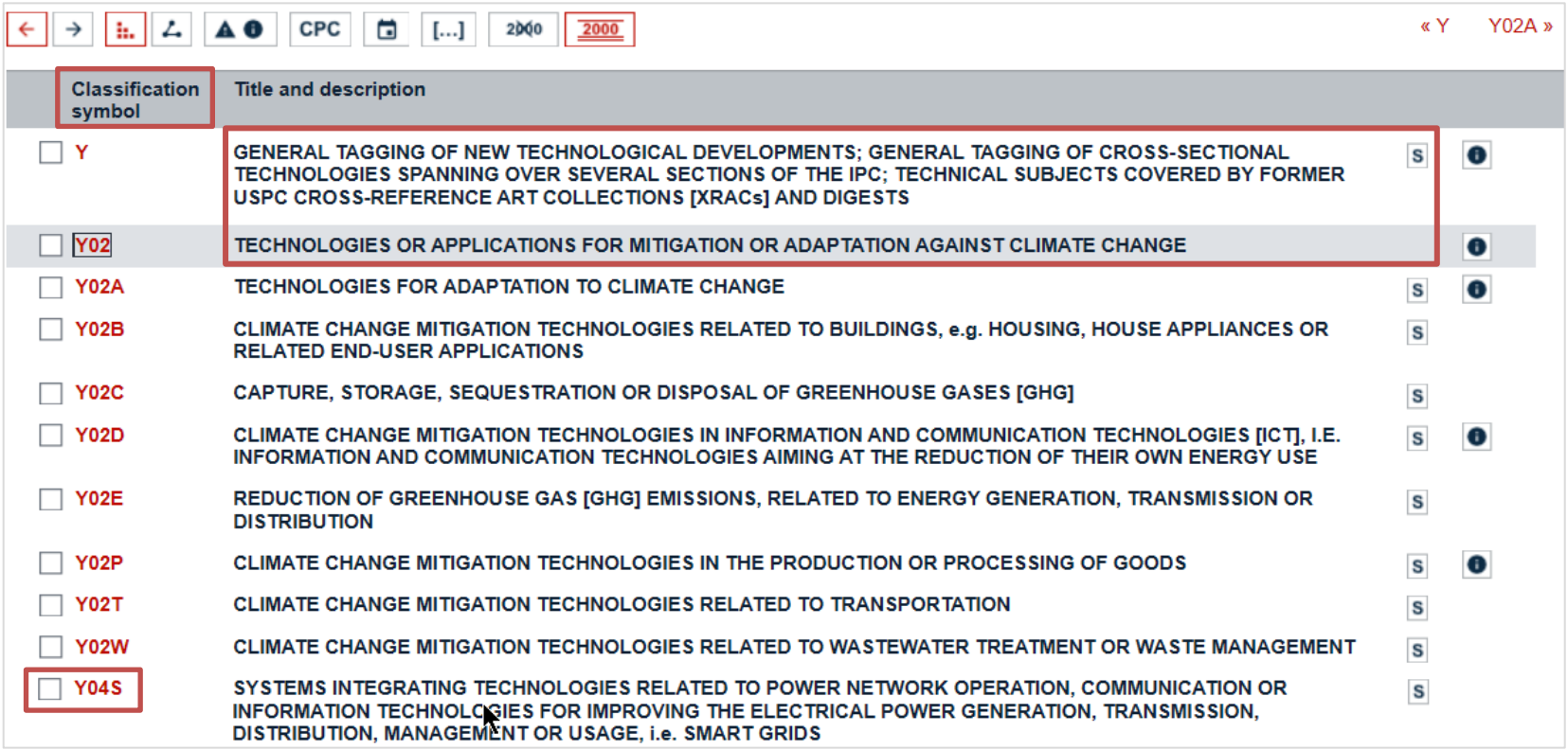
- Each C-Set shall contain exactly two symbols.
- Duplicate symbols are not allowed in these C-Sets.
- The order of symbols in these C-Sets is relevant as it reflects the laminated safety glass structure as the base symbol, followed by the polymeric material forming the intermediate layer as the subsequent symbol.

C-Sets examples:

- #B32Ba: In a safety glass laminate (B32B 17/10005) comprising outer glass panes and a composite interlayer comprising a polycarbonate sheet, the polycarbonate (B32B 2369/00) sandwiched between two polyvinyl butyral (PVB) interlayers is classified as (B32B 17/10005, B32B 2369/00) and the PVB interlayers are classified as B32B 17/10761.
- #B32Ba: In a safety glass (B32B 17/10005) comprising a first outer layer of glass, a second outer layer of rigid polymer and an intermediate film adhering the first outer layer to the second outer layer, wherein the intermediate film has the layer structure: polyurethane/polyacrylate/polyurethane, the polyacrylate (B32B 2333/08) is classified as (B32B 17/10005, B32B 2333/08) and the polyurethane interlayers are classified as B32B 17/1077.
- #B32Ba: In a glass laminate (see figure below) comprising a thermoplastic top layer 12 of polycarbonate (B32B 2369/00), a bottom layer 16 formed of tempered glass, and an intermediate layer 14 of polyethylene terephthalate (PET) (B32B 2367/00) positioned between the top 12 and bottom 16 layers, wherein the three layers 12, 14, and 16 are bonded together using a polyurethane adhesive 18 and the glass laminate meets safety glass requirements (B32B 17/10005), the PET intermediate layer 14 is classified as (B32B 17/10005, B32B 2367/00), the polyurethane adhesive layers (interlayers) 18 are classified as B32B 17/1077, and the polycarbonate top (outer) layer 12 is classified as B32B 2369/00 as a single symbol.



New Y02/Y04S


CPC
[...]
2000
« Y
Y02A »
Classification symbol
Title and description
Y
GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS
Y02
TECHNOLOGIES OR APPLICATIONS FOR MITIGATION OR ADAPTATION AGAINST CLIMATE CHANGE
Y02A
TECHNOLOGIES FOR ADAPTATION TO CLIMATE CHANGE
Y02B
CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO BUILDINGS, e.g. HOUSING, HOUSE APPLIANCES OR RELATED END-USER APPLICATIONS
Y02C
CAPTURE, STORAGE, SEQUESTRATION OR DISPOSAL OF GREENHOUSE GASES [GHG]
Y02D
CLIMATE CHANGE MITIGATION TECHNOLOGIES IN INFORMATION AND COMMUNICATION TECHNOLOGIES [ICT], I.E. INFORMATION AND COMMUNICATION TECHNOLOGIES AIMING AT THE REDUCTION OF THEIR OWN ENERGY USE
Y02E
REDUCTION OF GREENHOUSE GAS [GHG] EMISSIONS, RELATED TO ENERGY GENERATION, TRANSMISSION OR DISTRIBUTION
Y02P
CLIMATE CHANGE MITIGATION TECHNOLOGIES IN THE PRODUCTION OR PROCESSING OF GOODS
Y02T
CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO TRANSPORTATION
Y02W
CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO WASTEWATER TREATMENT OR WASTE MANAGEMENT
Y04S
SYSTEMS INTEGRATING TECHNOLOGIES RELATED TO POWER NETWORK OPERATION, COMMUNICATION OR INFORMATION TECHNOLOGIES FOR IMPROVING THE ELECTRICAL POWER GENERATION, TRANSMISSION, DISTRIBUTION, MANAGEMENT OR USAGE, i.e. SMART GRIDS

A short history of Y02/Y04S

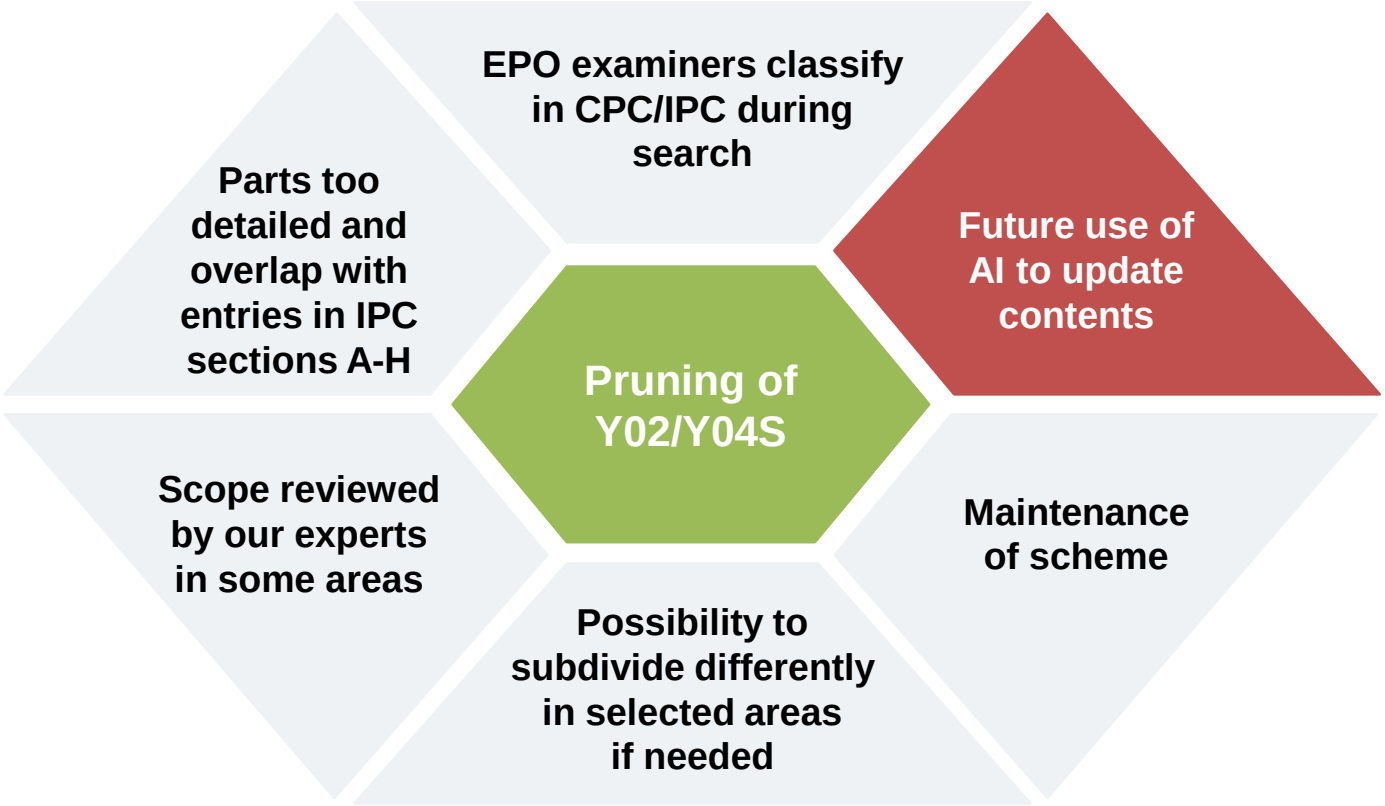
Tagging scheme for climate change mitigation technologies (CCMTs).

- 2010: starting with Y02E (“Clean energy generation")
- …
- 2018: added Y02A ("Adaptation to climate change")

In summer 2020: CPC revision

- Y02/Y04S classification was "pruned"
  - Number of entries went down from >1.900 to about 350.

Why pruning?

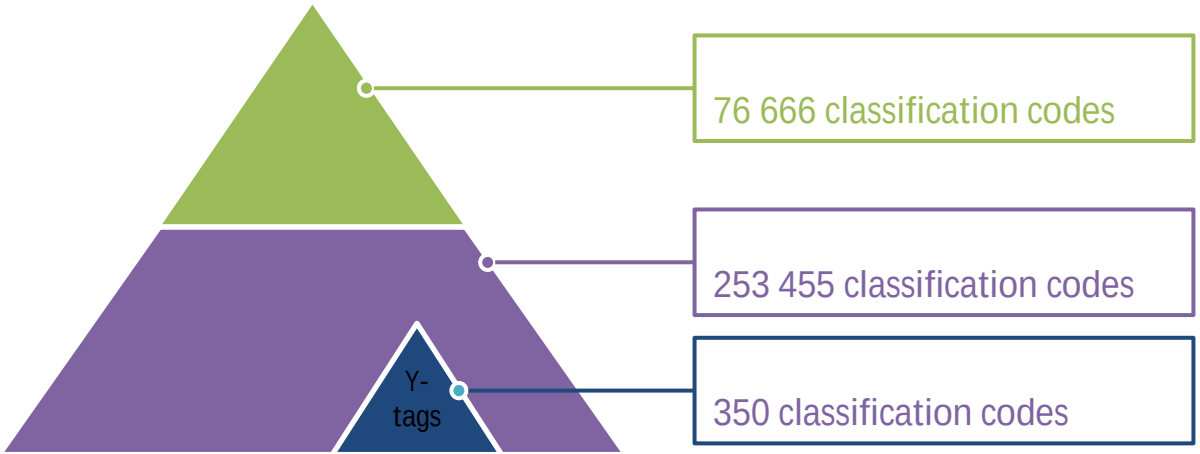

EPO examiners classify in CPC/IPC during search
Parts too detailed and overlap with entries in IPC sections A-H
Future use of AI to update contents
Pruning of Y02/Y04S
Scope reviewed by our experts in some areas
Maintenance of scheme
Possibility to subdivide differently in selected areas if needed

Pruning example

Solar thermal energy

Y02E10/40	1	Solar thermal energy, e.g. solar towers	
~~Y02E10/41~~	~~2~~	~~Tower concentrators~~	transfer to Y02E10/40
~~Y02E10/42~~	~~2~~	~~Dish collectors~~	transfer to Y02E10/40
~~Y02E10/43~~	~~2~~	~~Fresnel lenses~~	transfer to Y02E10/40
Y02E10/44	2	Heat exchange systems	
~~Y02E10/45~~	~~2~~	~~Trough concentrators~~	transfer to Y02E10/40
Y02E10/46	2	Conversion of thermal power into mechanical power, e.g. Rankine, Stirling solar thermal engines	
~~Y02E10/465~~	~~3~~	~~Thermal updraft~~	transfer to Y02E10/46
Y02E10/47	2	Mountings or tracking	

Where do you find the new scheme?



DocDB
EPO worldwide
bibliographic data

- Espacenet
- Global Patent Index
- PATSTAT

Latest news
About CPC
Objectives
CPC Scheme and Definition
CPC Revisions
CPC Concordances

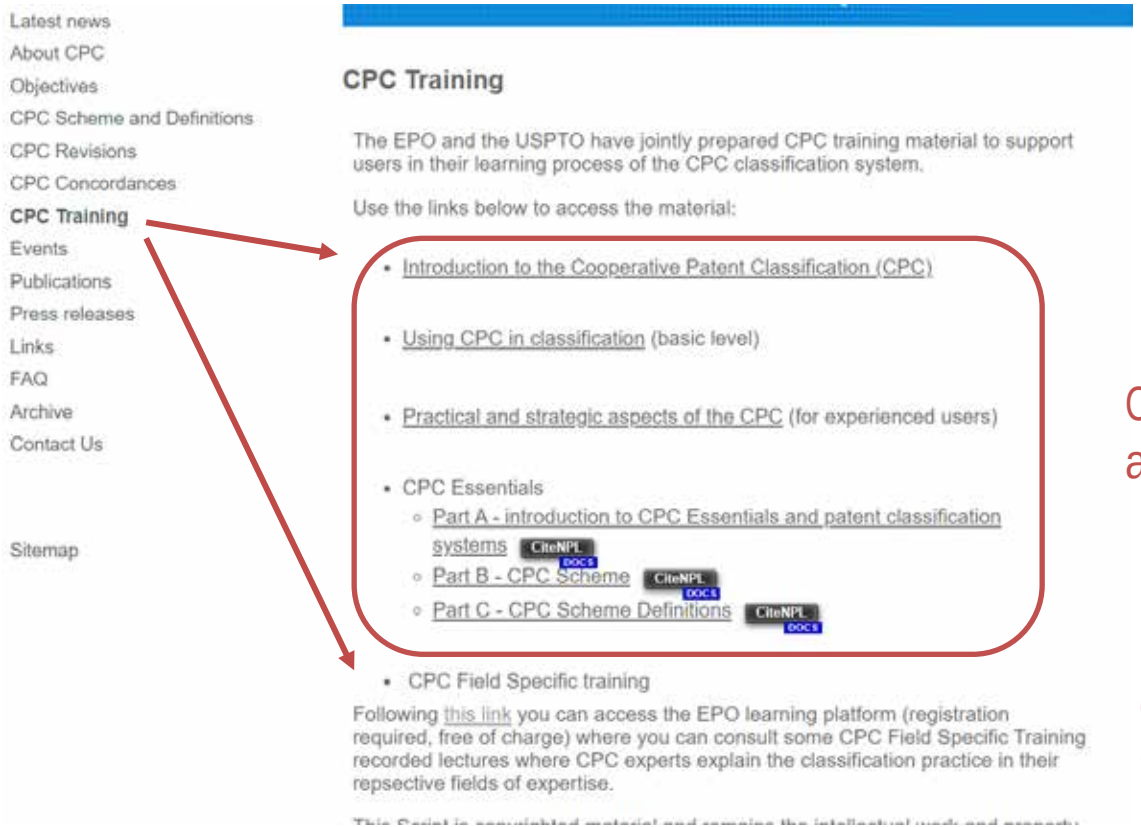
At the end of the day

- The Y-tags are **less granular** – still, they are suitable for external users needs.
- **Search** of the core invention done using CPC & IPC **sections A-H**
- The new tagging scheme is **easier to maintain**.
- **Artificial Intelligence** will be used to update the inventories **in the future**.

CPC Training

- CPC Scheme and Definitions
- The EPO and USPTO provide general, advanced and field-specific CPC training to national offices classifying in the CPC
- CPC training is provided based on needs of CPC offices

CPC training on the CPC website

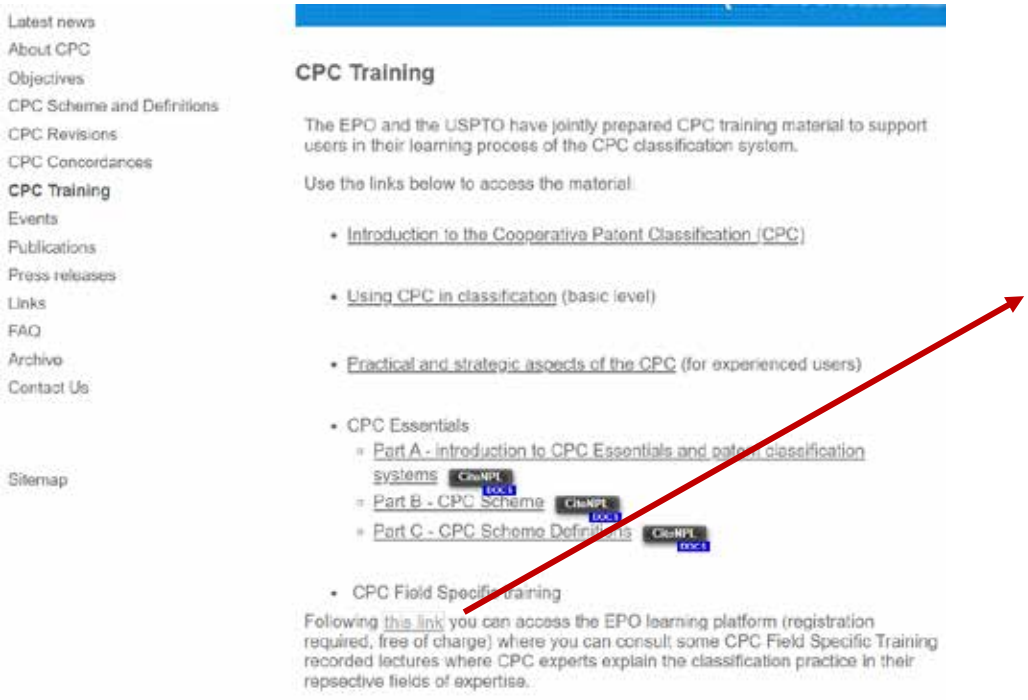


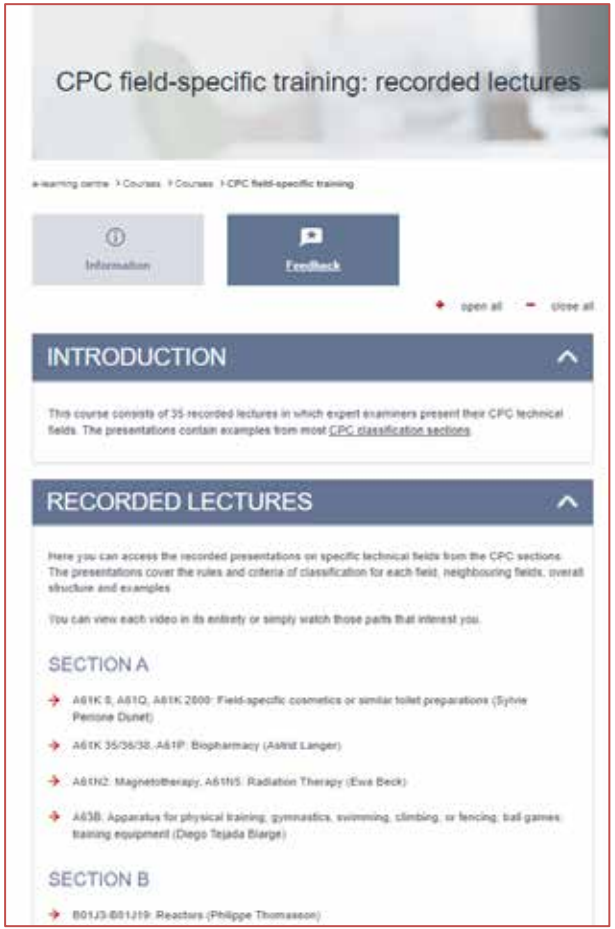
CPC General and advanced training

CPC Field-specific training

https://www.cooperativepatentclassification.org/Training

CPC field-specific training material





Outreach events 2020

- **CPC Annual Meeting with offices** (Geneva, 18 February 2020)
- **CPC Annual Meeting with industry users** (online, 25 June 2020)

- **PDG/IMPACT** meeting (online, 22-23 October 2020)
- **PATCOM** meeting (online, 22-23 October 2020)
- **PIUG** Annual Conference (online, 26-30 October 2020)

- **Search Matters 2020** (online, 14-16 October 2020)
  - Ø CPC and disruptive technologies

- **EPOPIC 2020** (online, 3-4 November 2020)
  - Ø Discussion Round on cpcinfo.org revamping

2021 outreach events with CPC

CPC Annual meeting with industry users (online, 29 March 2021)

- IP5 WG1 – Working Group on Classification (electronic, March 2021)
- IPC/CE

- PDG/IMPACT
- Patent User Day
- Patcom
- …

Discussion:

- Experiences and questions on Y02/Y04?
- Are there other outreach events the EPO and USPTO should consider?

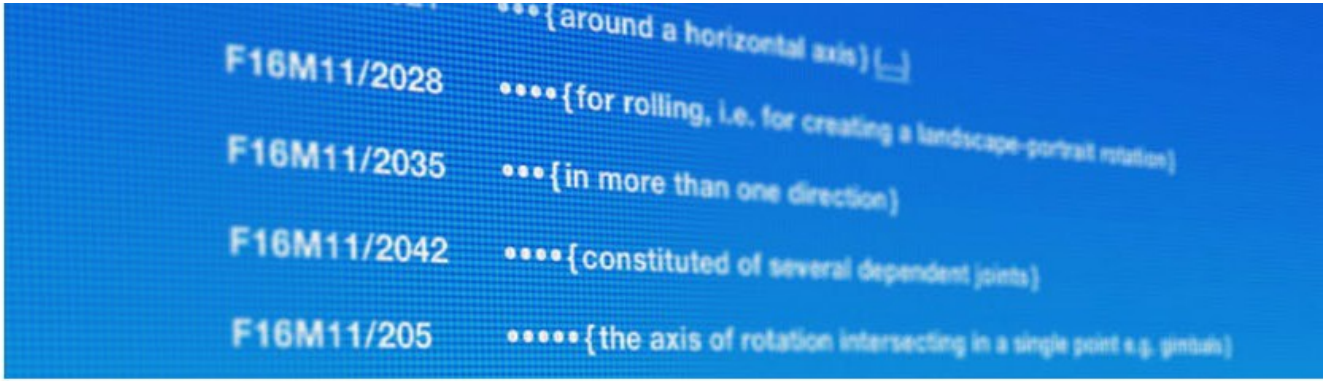
Open Floor Discussion

Discussion:

- Would there be any additional CPC products that you would need?
- Are there any specific issues you are encountering with CPC?
- Any input for cpcinfo.org revamping?

Cooperative Patent Classification

European Patent Office
United States Patent and Trademark Office



Thank you for your attention!

More info? www.cpcinfo.org

cpc@uspto.gov cpc@epo.org