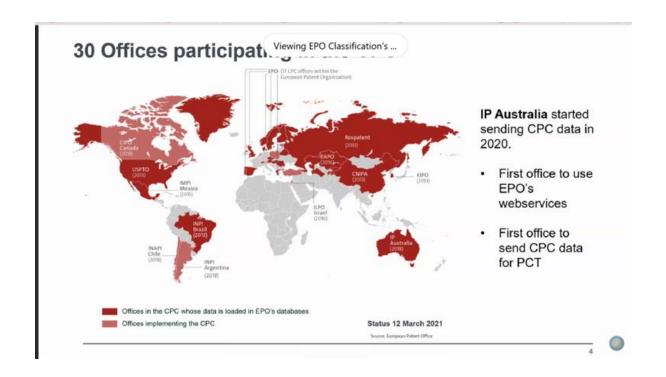
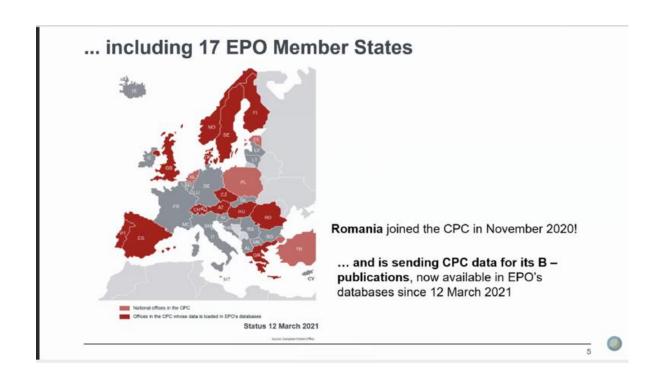
8th CPC EPO USPTO Meeting – Slides (screenshots) 29/03/2021





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%

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	СН	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

EPO's Strategic Plan 2023 - Classification



Artificial Intelligence to support CPC processes:

Preclassification - file allocation Reclassification Classification



Considering classification at passage level



EPO's Strategic Plan 2023 - Classification





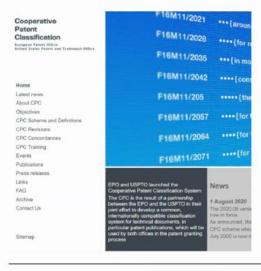
- Harmonisation plan (USPTO SCEs EPO QNs)
- CPC revision backlog reduced to virtual zero (over 200 projects)
- · Streamlined revision process: 9 months from start to "sent to publication"
- · Improvement IT infrastructure

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 <u>cpc@epo.org</u>; <u>cpc@uspto.gov</u>

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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:

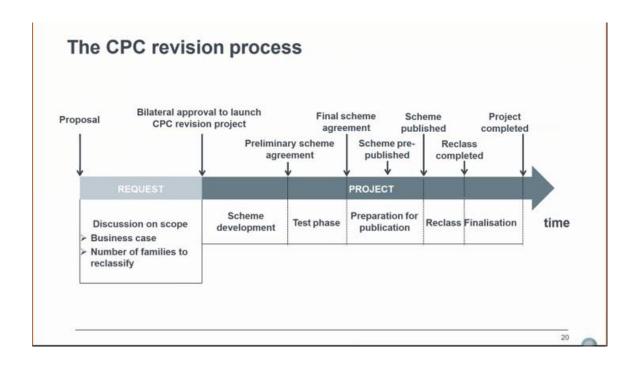


No date next to CPC symbols: displayed symbols are valid under the CPC release in force at the time of publication!

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





The CPC revision process:

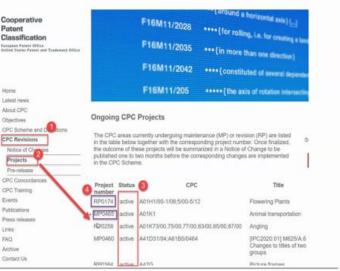
In 2020 following goals achieved bilaterally by the USPTO and the EPO:

- 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)

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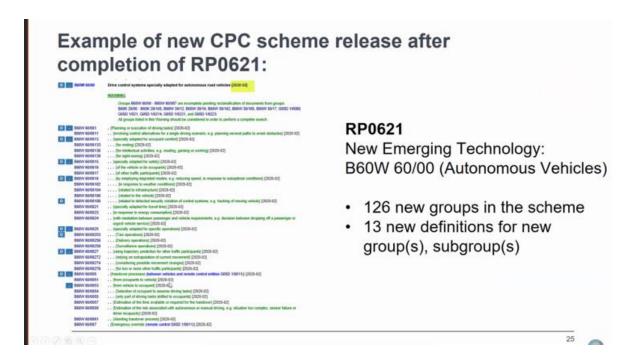
In which areas are projects running?

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



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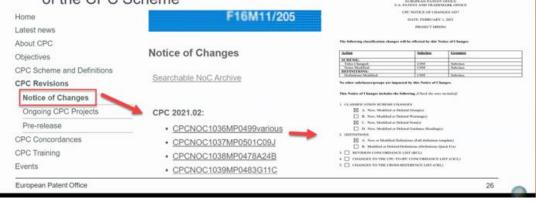
2020 NOC Publication	RP	DP	MP	Total
January	54	12	5	71
February	9	1	2	12
May	55	3	13	71
August	47	1	9	57
Total	165	17	29	211
021 NOC Publication	RP	DP	MP	Total
lanuary	56	10	22	88
ebruary	7	9	0	16
Total	63	19	22	104

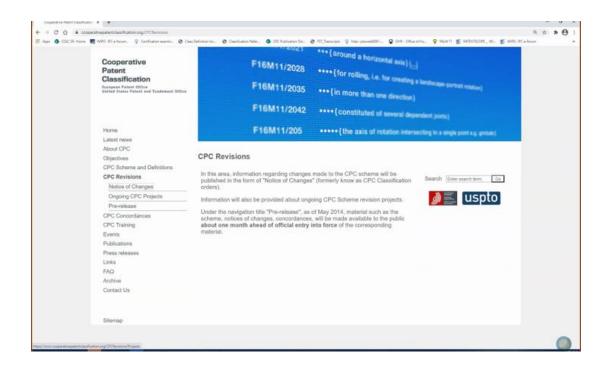


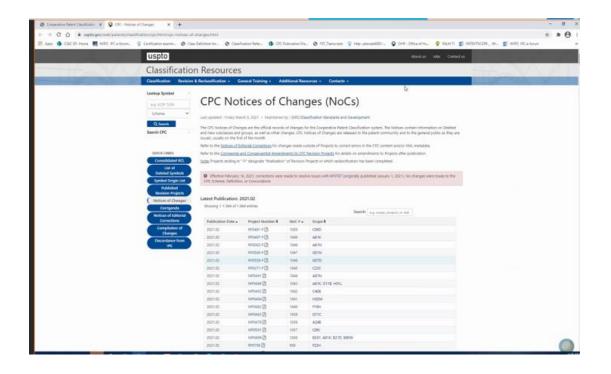
How can I look at the details of the changes?

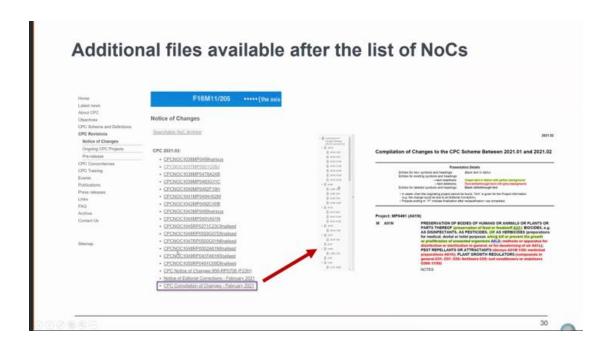
Contained in the CPC Notices of Changes (NoCs)

- 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









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

- 2

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.

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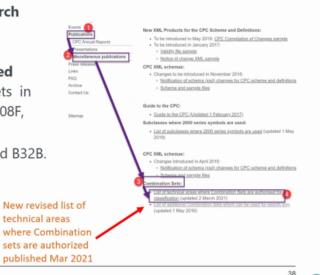
EPO's and USPTO's objective is to **reclassify documents within a year** past the publication date of their respective CPC releases.

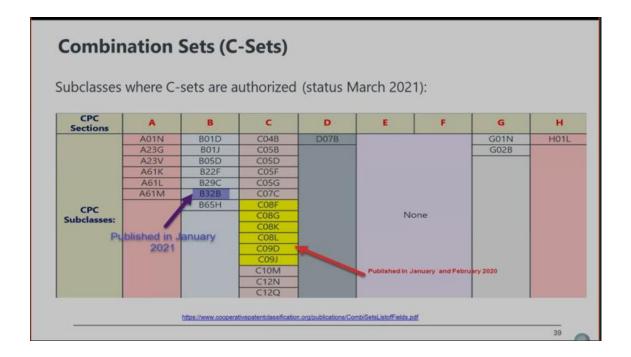
EPO had at the beginning of 2020 a reclassification backlog of 159.712 documents which was reduced to 17.612 documents at the end of the year (89% reduction).

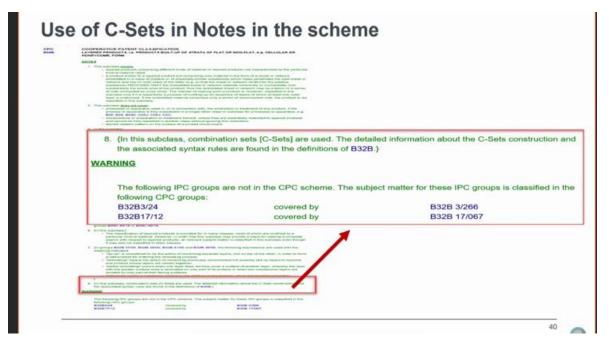
USPTO reclassified 155.244 documents during FY 2020.

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.







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 polymenic sheet or film is classified using the appropriate group selected from 8328 17/10009 - 8328 17/1009 together with the 8328 231900 - 8328 236000 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 8328 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 #8328a, the base symbol, representing the laminated safety glass structure comprising an interlayer adjacent
 the glass, is taken from subgroup 8328 17/10005, whereas the subsequent symbol representing the nature of th
 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 B328 231900 -B328 2386/00, separate C-Sets are given based on each polymeric material as the subsequent symbol.
 B328 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.

12	Polycerbonate Outer Lever	
18	Polyorethane interleyer	
54	PET Intermediate Layer	
18	Folyurethane Interlayer	
14	Tempered Class	

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New Y02/Y04S ← → H. ∠ ▲ ● CPC 🖫 [...] 2000 2000 Y02A » Classification Title and description symbol 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 (KRACS) AND DIGESTS Y02 TECHNOLOGIES OR APPLICATIONS FOR MITIGATION OR ADAPTATION AGAINST CLIMATE CHANGE 0 TECHNOLOGIES FOR ADAPTATION TO CLIMATE CHANGE Y02A 0 5 Y02B CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO BUILDINGS, e.g. HOUSING, HOUSE APPLIANCES OR RELATED END-USER APPLICATIONS s ☐ Y02C CAPTURE, STORAGE, SEQUESTRATION OR DISPOSAL OF GREENHOUSE GASES [GHG] CLIMATE CHANGE MITIGATION TECHNOLOGIES IN INFORMATION AND COMMUNICATION TECHNOLOGIES JICTJ, I.E. INFORMATION AND COMMUNICATION TECHNOLOGIES AIMING AT THE REDUCTION OF THEIR OWN ENERGY USE ☐ Y02D 5 0 ☐ 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 CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO TRANSPORTATION Y02T ☐ Y02W CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO WASTEWATER TREATMENT OR WASTE MANAGEMENT 5 SYSTEMS INTEGRATING TECHNOLOGIES RELATED TO POWER NETWORK OPERATION, COMMUNICATION OR Y045 INFORMATION TECHNOLOGIES FOR IMPROVING THE ELECTRICAL POWER GENERATION, TRANSMISSION, DISTRIBUTION, MANAGEMENT OR USAGE, i.e. SMART GRIDS 43

A short history of Y02/Y04S

Tagging scheme for climate change mitigation technologies (CCMTs).

2010: starting with Y02E ("Clean energy generation")

. . .

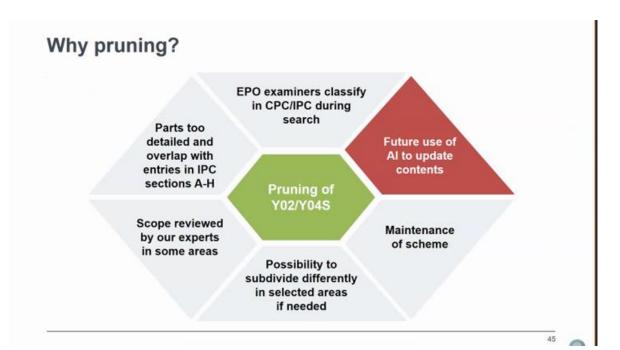
2018: added Y02A ("Adaptation to climate change")

In summer 2020: CPC revision

Y02/Y04S classification was "pruned"

Number of entries went down from >1.900 to about 350.

2D/2000

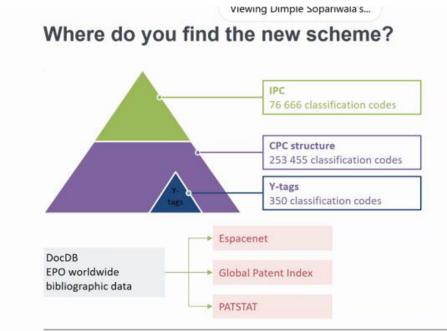


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Pruning example

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	



At the end of the day

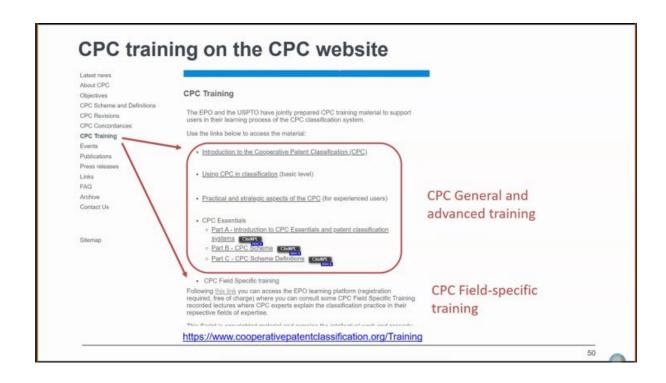
- The Y-tags are less granular still, they are suitable for external users needs.
- · Search of the core invention done using CPC & IPC sections A-H
- · The new tagging scheme is easier to maintain.
- Artificial Intelligence will be used to update the inventories in the future.

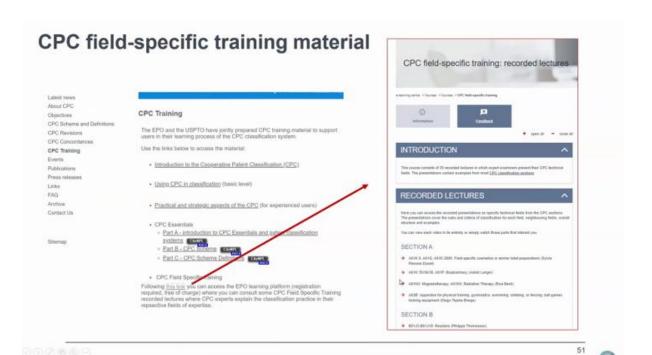
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CPC Training

- 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





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)
 - CPC and disruptive technologies
- EPOPIC 2020 (online, 3-4 November 2020)
 - Discussion Round on cpcinfo.org revamping

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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
- .