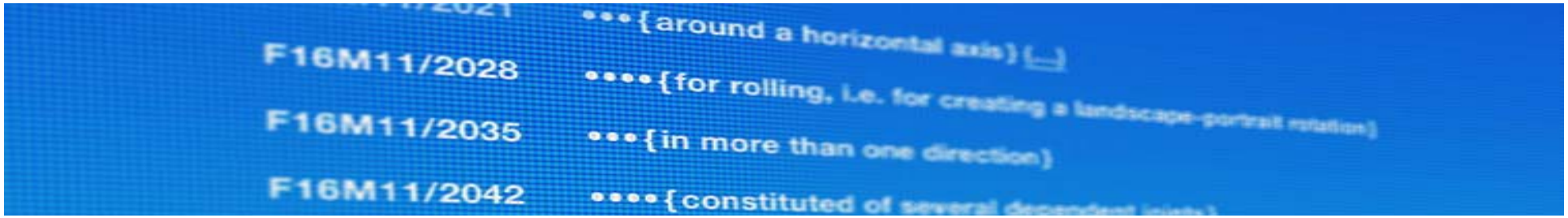
2nd CPC Annual Meeting

Geneva, 14-15 April 2015

M. Sideris, P. Held, N. Das Neves, M. van der Horst (EPO)
C. Kim, M. Koval (USPTO)



Highlights of last year's meeting

The 1st CPC Annual Meeting

- **Held on 24 and 25 February 2014 at WIPO premised in Geneva**
  - one day with industry users (7 participants)
  - one day with national offices (14 offices represented)

- More than **14 presentations**

- **Question and answer** sessions

- Numerous **feedback** collected

- Many **improvement suggestions** made

Main outcomes

- **“interleaved” presentation** of the scheme was **favoured**
  - became the **official version** of the scheme since the 2014.09 version
- List of fields where **C-sets** are used was **made public**
- **Training material about C-sets and 2000-series** was made available
- A **C-set workshop** was available at the **“2015 Search Matters”**
- The “**pre-release**” of CPC products was implemented as of the 2014.06 version
- The “**list of valid symbols**” has been made public as of the 2014.06 version

Main outcomes

- Publication of the **CPC coverage of national collections**
  - data is ready, **will be published after this meeting**

- **Improvements to Espacenet**, e.g. **CPC scheme viewer** (clarity of the dates displayed, embedded Definitions), **CPCNO allocations**, **C-sets**

- Possibility of **dealing with CPCNO outdated symbols** was investigated

- **CPC outreach directly in Asia**
  - CPC conference for industry users to be organised in June in Korea

- In 2015, **two CPC annual meetings with users:**
  - one in **Europe on 14 April 2015**, Geneva
  - one in the **USA on 1 May 2015**, Lombard, IL

CPC – Update on status

- USPTO/EPO agree to co-operate on a joint classification system derived from IPC-based ECLA (October 2010)
- USPTO to move from USPC to CPC; EPO to move from ECLA to CPC
- CPC planned to be bi-laterally operational at EPO and USPTO by end of December 2012

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."

David J. Kappos

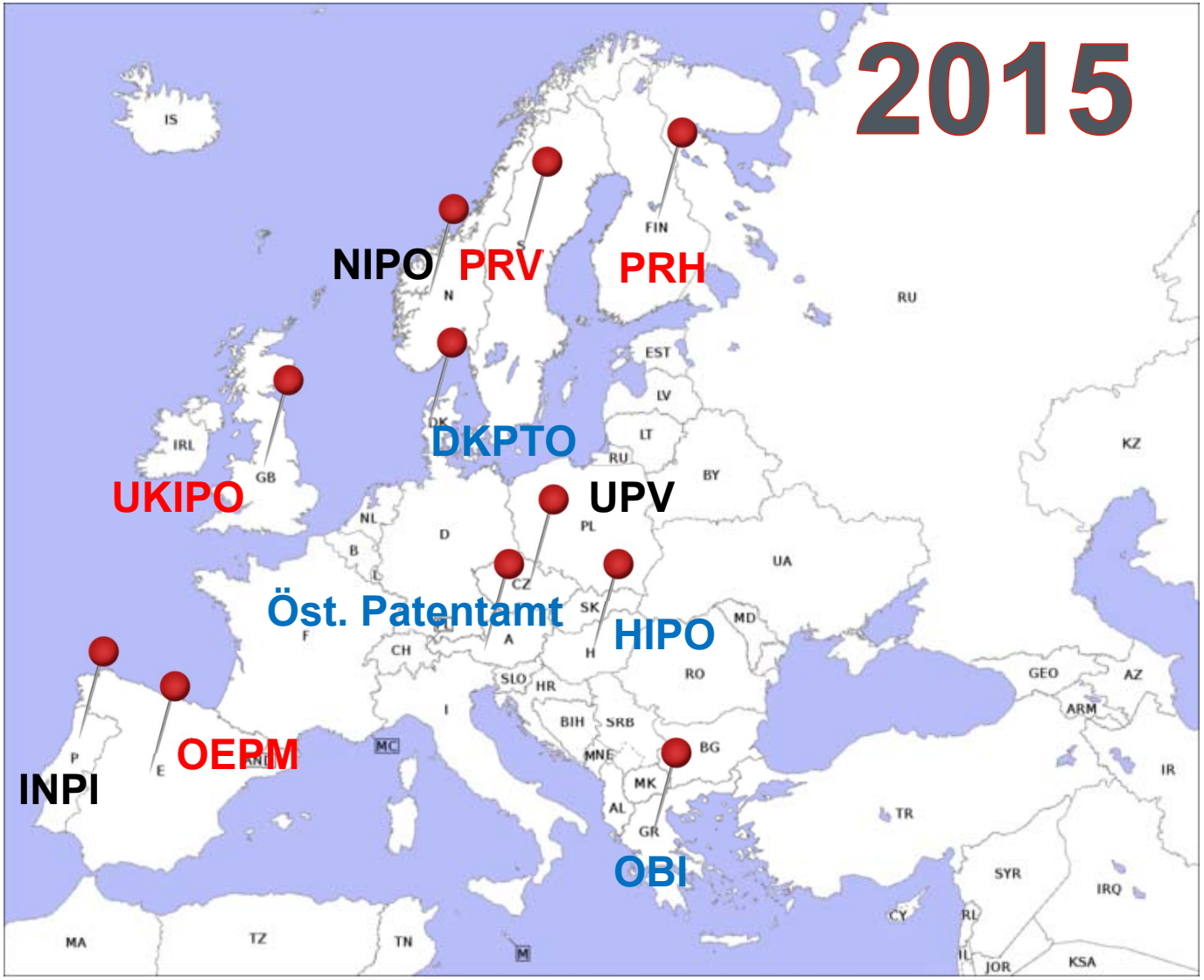
Benoît Battistelli

October 25, 2010

CPC: a truly international system

Who's on-board within the European Patent Organisation?

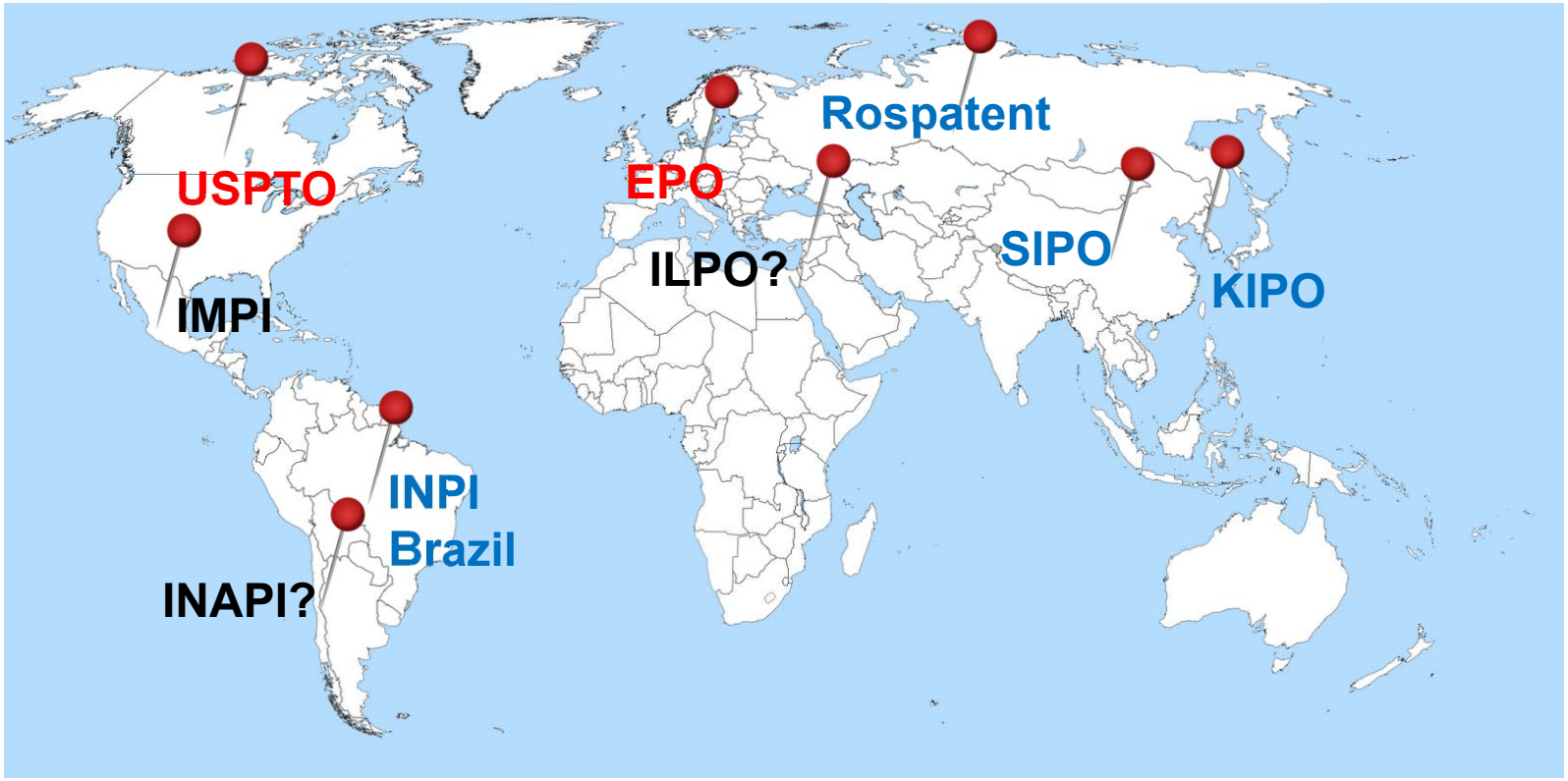
Former „ECNO"



New in 2013-14

Who's on-board around the world?

Since 2010



Soon ?

2013-2014

Furthermore, CPC is **used for search** by more than **45 Patent Offices** and by more than **25 000 examiners**

CPC Scheme

- the **“interleaved” presentation** is the **official presentation of the CPC scheme**
  - since CPC scheme version September 2014
  - the “original” presentation with further breakdown symbols at the bottom of the scheme is discontinued
  - the following remains at the bottom of the scheme:
    - IPC indexing codes
    - CPC orthogonal codes

A61M 1/00 Suction or pumping devices for medical purposes; Devices for carrying-off, for treatment of, or for carrying-over, body-liquids; Drainage systems

A61M 1/0001 .{Containers for suction drainage, e.g. rigid containers}

A61M 1/0003 ..{Self-contained vacuum aspirators}

A61M 1/0005 ..{with means for emptying the suction container, e.g. by interrupting suction}

A61M 2001/0007 ...Emptying the suction container without interrupting suction

A61M 1/0009 ..{incorporating a movable wall to create suction, e.g. syringes}

A61M 1/0011 ..{Drainage containers incorporating a flexible member creating suction, e.g. bags in a low-pressure chamber, bellows}

A61M 1/0013 ..{Two- or three-bottle systems for underwater drainage, e.g. for chest cavity drainage}

A61M 2001/0015 ..Mechanical means for preventing flexible containers from collapsing when vacuum is applied inside

A61M 2001/0017 ..Bag or liner in a rigid container, with suction applied to both

A61M 1/0019 .{Drainage containers not being adapted for subjection to vacuum, e.g. bags

A61M 39/00 Tubes, tube connectors, tube couplings, valves, access sites or the like, specially adapted for medical use

A61M 2250/00 Specially adapted for animals

CPC scheme – Y section

- General tagging of new technological developments; general tagging of **cross-cutting technologies** spanning over several sections of the IPC
  - **Y02**: Climate change mitigation technologies (CCMTs)
  - **Y04**: Smart grids

- Technical subjects covered by former USPC cross-reference art collections [**XRACs**] and **Digests and** technical subjects from selected USPC
  - **Y10S**
  - **Y10T**

CPC scheme layout

Sections A-H	Section Y

Main trunk
• 647 subclasses
• for invention or additional information
• **{...} and green colour used to distinguish CPC text from IPC one**
• "breakdown" indexing codes
  • for additional information only
About 160 000 symbols
	• tagging of emerging cross-sectional technologies
	  • Y02B, C, E, T
	  • Y04S
	• USPC-related
	  • Y10S, T
	• for additional information only
	About 13 000 symbols

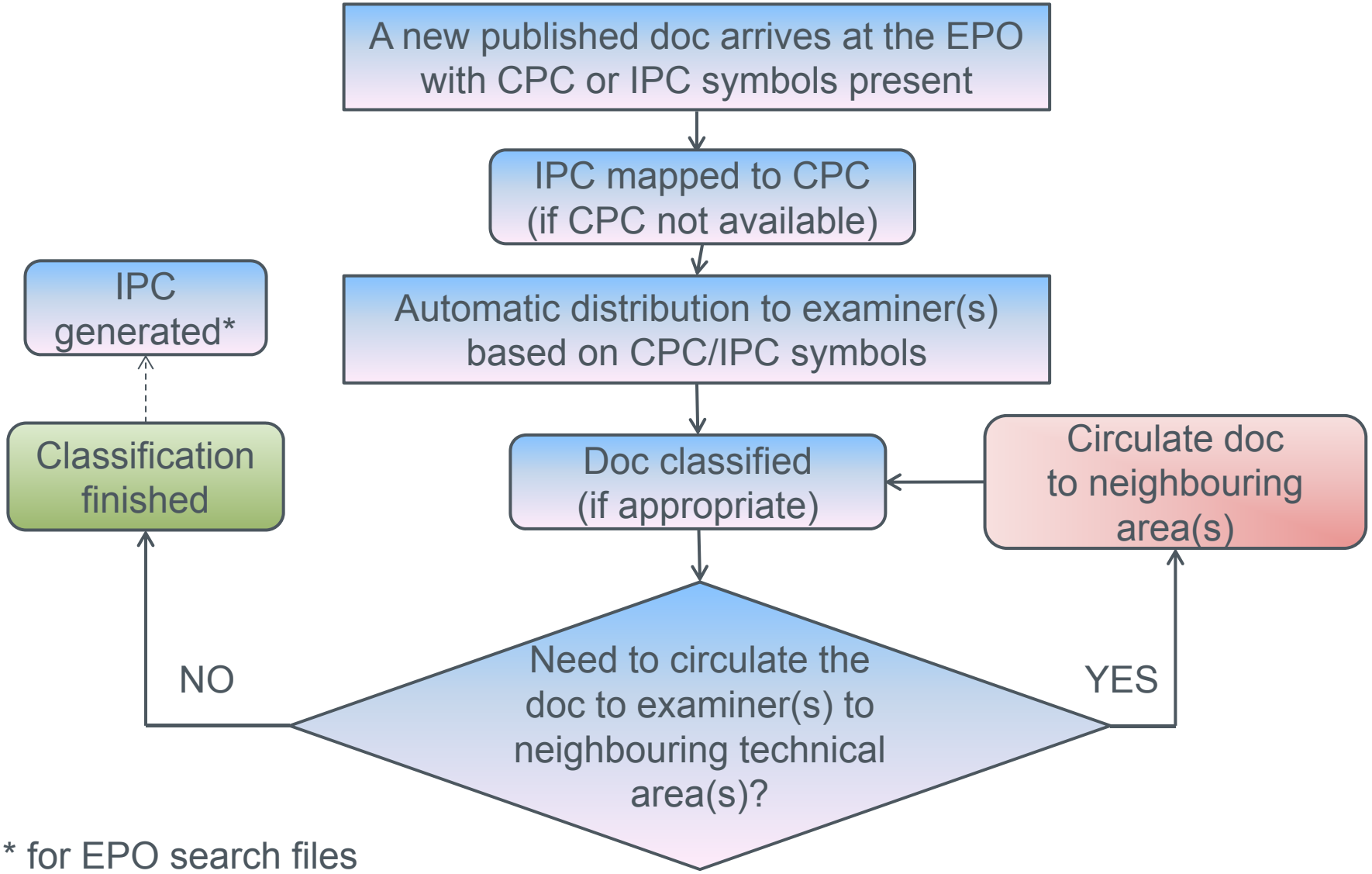
"2000 series" • IPC-based indexing codes (numbering 2100+) • "orthogonal" indexing codes (numbering: 2200+) • for additional information only **About 82 000 symbols**	

Classification Practice at the EPO

Classification Practice at the EPO

- Frontfile Classification Workflow
- Definition of “Backlog”
- CPC Coverage

Frontfile classification workflow

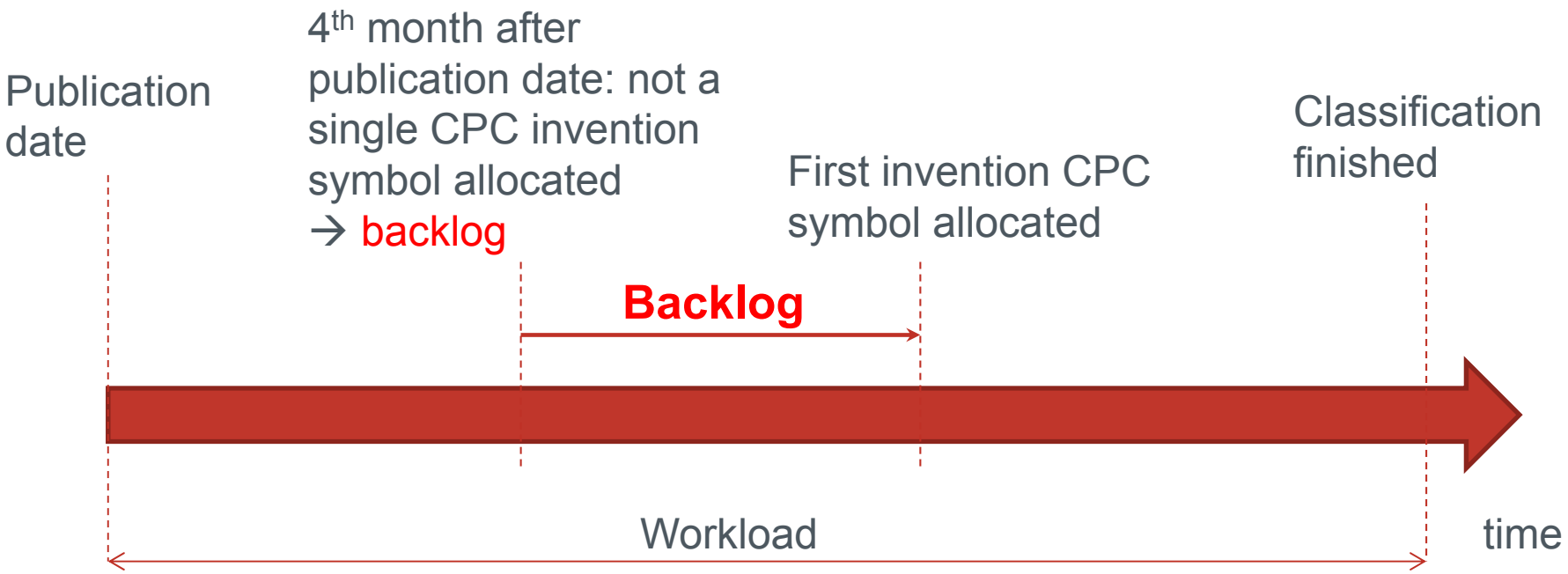


* for EPO search files

Classification Backlog Definition

- A document is considered to belong to the classification backlog when **four months** after its publication, not a single CPC symbol for “invention information” has been allocated to it

Classification backlog

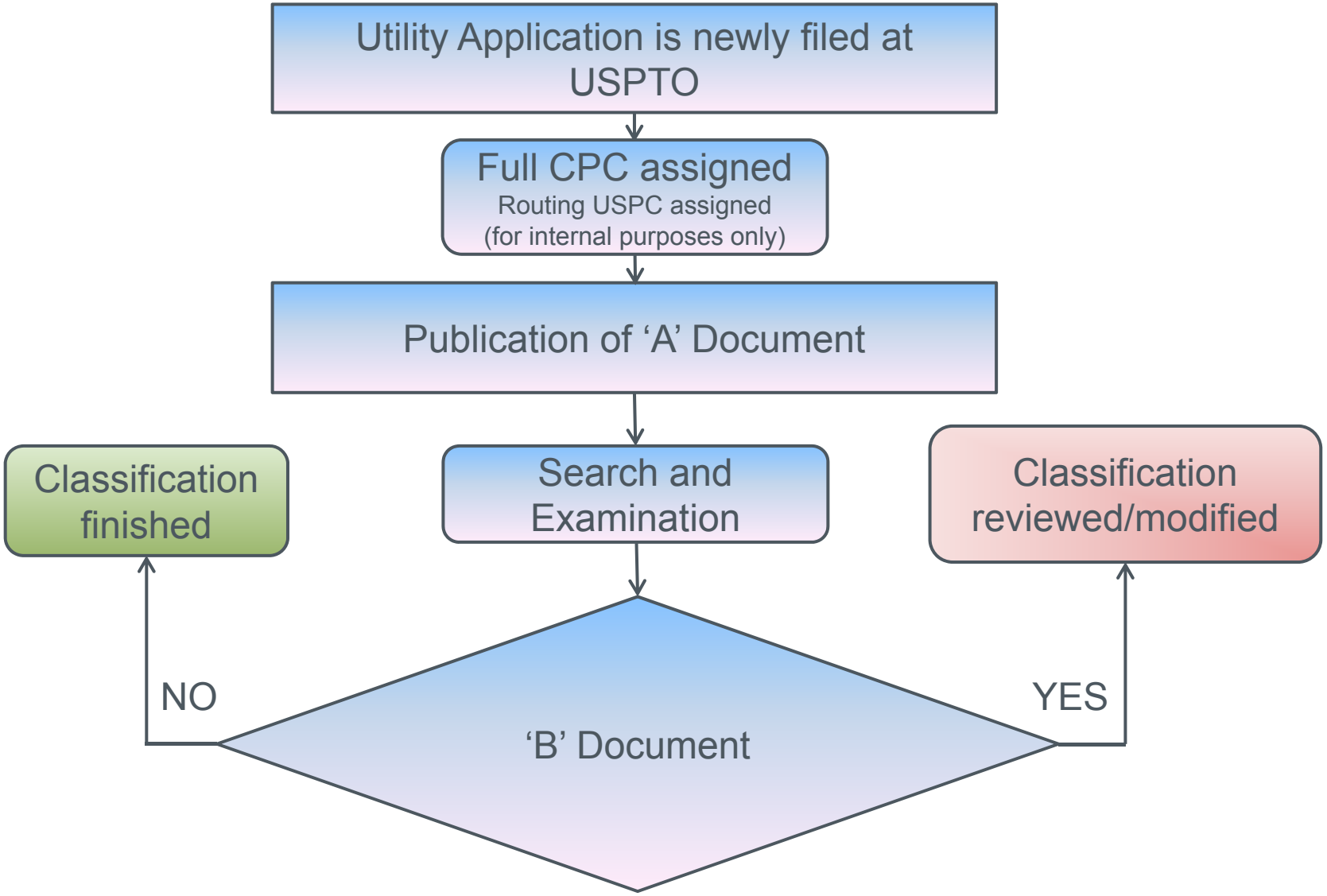


Classification Practice at the USPTO

Classification Practice at the USPTO

- Full classification picture at time of publication
- No backlog
- Classifications are assigned and reviewed twice –
  - At time of publication of ‘A’ document
  - At time of publication of ‘B’ document
- A and B documents have the same family classification picture in CPCDB

Classification workflow for utility applications



CPC Updates at USPTO

April 2015

CPC Transition Status at USPTO

- USPTO scheduled transition to CPC from USPC ended December 31, 2014
- CPC is the main classification system at USPTO
- USPTO Examiner issues regarding CPC are being addressed
- External training will be provided for CPC search

CPC Transition Status at USPTO

New Subclass Y10T in Y section (USPTO)

- USPC technical areas with some transition issues
- **TEMPORARY** measure until USPTO transition is perfected in the relevant area
- Primary classification in main CPC area. Secondary (ADD) classification by USPTO only on these areas
- Y10T scheme available since January 2015

Additional CPC Activities
USPTO-EPO Examiner Exchanges

- **USPTO Examiner visits to EPO**
- September 2014 – 32 USPTO participants
- April 2015 - 26 USPTO participants
- June 2015 - 38 USPTO participants

- **EPO Examiner visits to USPTO**
- Accomplished during EPO Technical visits to USA on an as needed basis

- **Virtual EPO-USPTO examiner communications**
- On going on an as needed basis
- USPTO conducts Quality Enhancement Meetings at USPTO. EPO examiners are invited to participate via video-conferencing as needed

CPC Transition Status at USPTO

- **What does transition mean for :**

- Publication ?
- Search ?
- Assignment of Work ?

CPC Transition Status at USPTO

- **PUBLICATIONS** USPC ➡ CPC

- US patent publications formerly had USPC, CPC, IPC
- As of January 1, 2015, US Patent applications are no longer classified in USPC (except designs and plants)
- December 2014/January 15 2015
  - **A documents will only have CPC (100%) (and IPC) *****
  - **B documents will only have CPC (100%) (and IPC) *****

***** April 2015 (due to IT issues)**

CPC Transition Status at USPTO

- For the A and B patent publications:

  INID code (52):

  USPC is removed

- Everything else is unchanged (including Field of Classification search)

- The effective date for Pre-grant Publication (A) change was 4/9/2015

- The effective date for Patent Grant (B) change was 4/7/2015

US 20150100310A1

(19) **United States**

(12) **Patent Application Publication**

CHA et al.

(10) **Pub. No.: US 2015/0100310 A1**

(43) **Pub. Date: Apr. 9, 2015**

(54) **APPARATUS AND METHOD OF REDUCING NOISE AND AUDIO PLAYING APPARATUS WITH NON-MAGNET SPEAKER**

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

(72) Inventors: **A-ran CHA**, Goyang-si (KR); **Gun-woo LEE**, Suwon-si (KR); **Sang-chul KO**, Seoul (KR); **Young-sang LEE**, Siheung-si (KR); **Yoon-jae LEE**, Seoul (KR)

(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

(21) Appl. No.: **14/509,447**

(22) Filed: **Oct. 8, 2014**

Related U.S. Application Data

(60) Provisional application No. 61/888,137, filed on Oct. 8, 2013.

(30) **Foreign Application Priority Data**

Jul. 8, 2014 (KR) 10-2014-0085353

Publication Classification

(51) **Int. Cl.**

G10L 21/0208	(2006.01)
G01R 33/28	(2006.01)
H04R 9/06	(2006.01)
G10L 21/0232	(2006.01)
H04R 1/28	(2006.01)
H04R 15/00	(2006.01)

(52) **U.S. Cl.**

CPC ***G10L 21/0208*** (2013.01); ***H04R 1/288*** (2013.01); ***H04R 15/00*** (2013.01); ***H04R 9/06*** (2013.01); ***G10L 21/0232*** (2013.01); ***G01R 33/283*** (2013.01)

(57) **ABSTRACT**

An audio apparatus is provided. The audio apparatus includes an input configured to receive an audio signal containing noise; a period estimation unit configured to estimate a period of a noise pattern in the audio signal; a noise reducer configured to subtract and remove the noise pattern from the audio signal in a frequency domain by using the estimated period of the noise pattern; a noise updater configured to update the noise pattern according to a change in amplitude of the noise; and an output configured to output the audio signal obtained by removing the noise pattern.

US009003255B2

(12) **United States Patent**
Kohli

(10) **Patent No.: US 9,003,255 B2**
(45) **Date of Patent: Apr. 7, 2015**

(54) **AUTOMATIC TEST-PATTERN GENERATION FOR MEMORY-SHADOW-LOGIC TESTING**

(75) Inventor: **Nishu Kohli**, Noida (IN)

(73) Assignee: **STMicroelectronics International N.V.**, Amsterdam (NL)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 305 days.

(21) Appl. No.: **13/175,530**

(22) Filed: **Jul. 1, 2011**

(65) **Prior Publication Data**

US 2013/0007548 A1 Jan. 3, 2013

(51) **Int. Cl.**

G01R 31/28	(2006.01)
G11C 29/00	(2006.01)
G11C 7/00	(2006.01)
G11C 8/00	(2006.01)
G01R 31/3183	(2006.01)
G11C 29/24	(2006.01)
G11C 29/10	(2006.01)
G11C 29/14	(2006.01)
G11C 29/54	(2006.01)
G11C 29/52	(2006.01)
G11C 29/50	(2006.01)
G11C 29/56	(2006.01)
G11C 11/34	(2006.01)
G11C 11/22	(2006.01)
G11C 11/4063	(2006.01)

(52) **U.S. Cl.**

CPC ***G01R 31/318371*** (2013.01); ***G11C 29/24*** (2013.01); ***G11C 29/10*** (2013.01); ***G11C 29/00*** (2013.01); ***G11C 29/14*** (2013.01); ***G11C 29/54*** (2013.01); ***G11C 29/52*** (2013.01); ***G11C 29/50*** (2013.01); ***G11C 29/56008*** (2013.01); ***G11C 11/34*** (2013.01); ***G11C 11/2275*** (2013.01); ***G11C 11/2273*** (2013.01); ***G01R 31/318307*** (2013.01); ***G11C 11/4063*** (2013.01); *G01R 31/318342* (2013.01); ***G11C 29/56004*** (2013.01)

(58) **Field of Classification Search**

CPC G11C 29/00; G11C 29/10; G11C 29/14; G11C 29/24; G11C 29/50; G11C 29/52; G11C 29/54; G11C 29/56004; G11C 29/56008; G11C 11/2273; G11C 11/2275; G11C 11/34; G11C 11/4063; G11C 11/4078; G01R 31/318307; G01R 31/318371; G01R 31/318342

USPC 714/718, 742, 738; 365/200, 201, 203, 365/208, 230.01, 230.02, 230.08

See application file for complete search history.

(56) **References Cited**

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5,619,462	A *	4/1997	McClure	365/201
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5,930,185	A *	7/1999	Wendell	365/201
5,936,892	A *	8/1999	Wendell	365/189.03
6,055,200	A *	4/2000	Choi et al.	365/201
6,101,618	A *	8/2000	McClure	714/27
6,216,239	B1 *	4/2001	Lien	714/718
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6,754,094	B2 *	6/2004	McClure	365/145
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(Continued)

Primary Examiner — John J Tabone, Jr.
(74) *Attorney, Agent, or Firm* — Gardere Wynne Sewell LLP

(57) **ABSTRACT**

An embodiment of a method for automated test pattern generation (ATPG), a system for ATPG, and a memory configured for ATPG. For example, an embodiment of a memory includes a first test memory cell, a data-storage memory cell, and a test circuit configured to enable the test cell and to disable the data-storage cell during a test mode.

15 Claims, 6 Drawing Sheets

CPC Transition Status at USPTO

- For Red Book XML ICE products:
  - Patent Grant Full Text
  - Patent Application Publication Full-Text

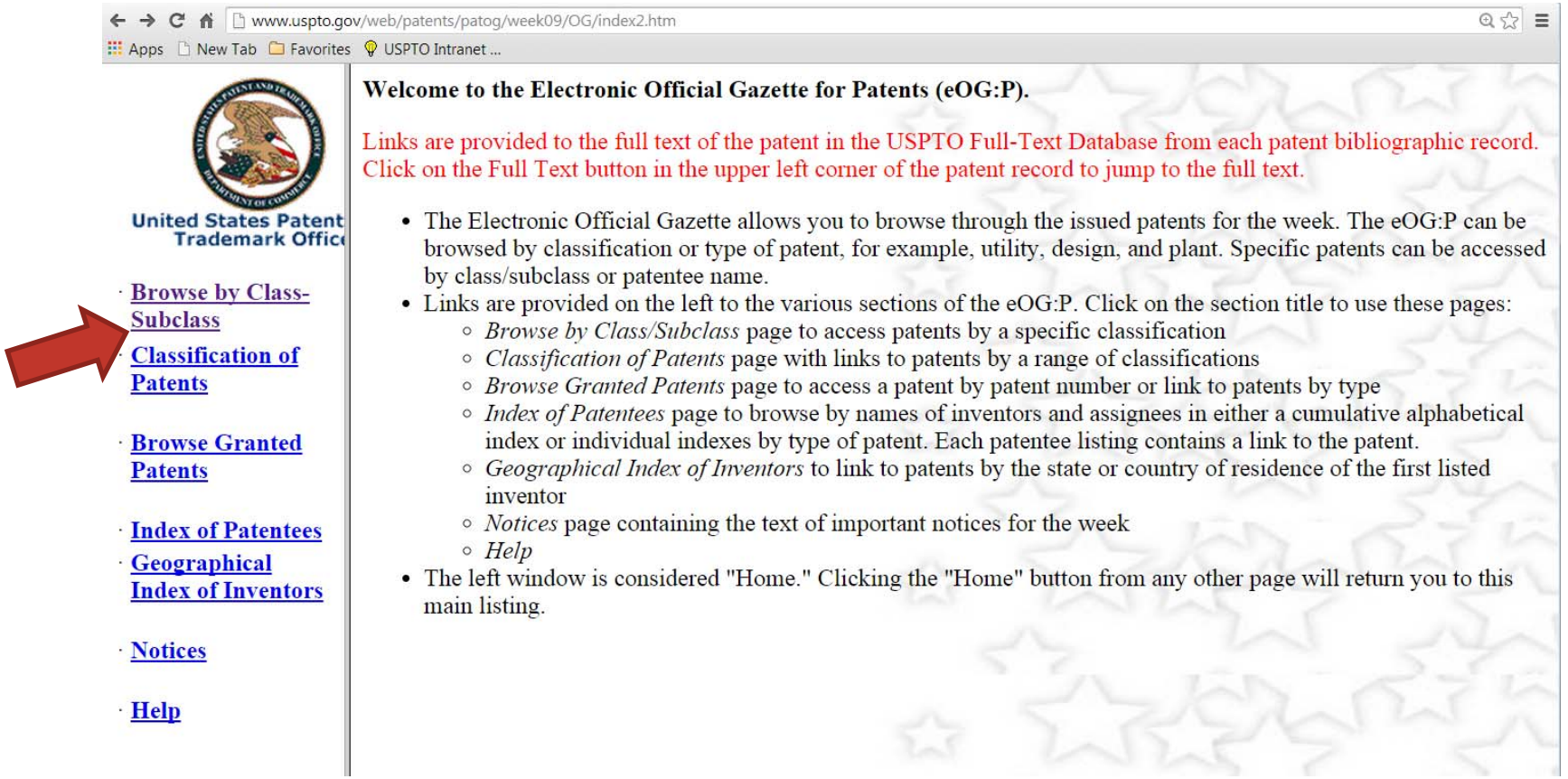
USPC will not be present these products for any utility application

- The effective date for Pre-grant Publication (A) change is **6/2/2015**

CPC Transition Status at USPTO

- The eOG changes are more extensive
  - mid May implementation date
  - change in Mid-May for the eOG of **6/2/2015**

  - **Listing of patents issued will now be arranged by CPC Sections A-H**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Geographical Index of Inventors to link to patents by the state or country of residence of the first listed inventor
Notices page containing the text of important notices for the week
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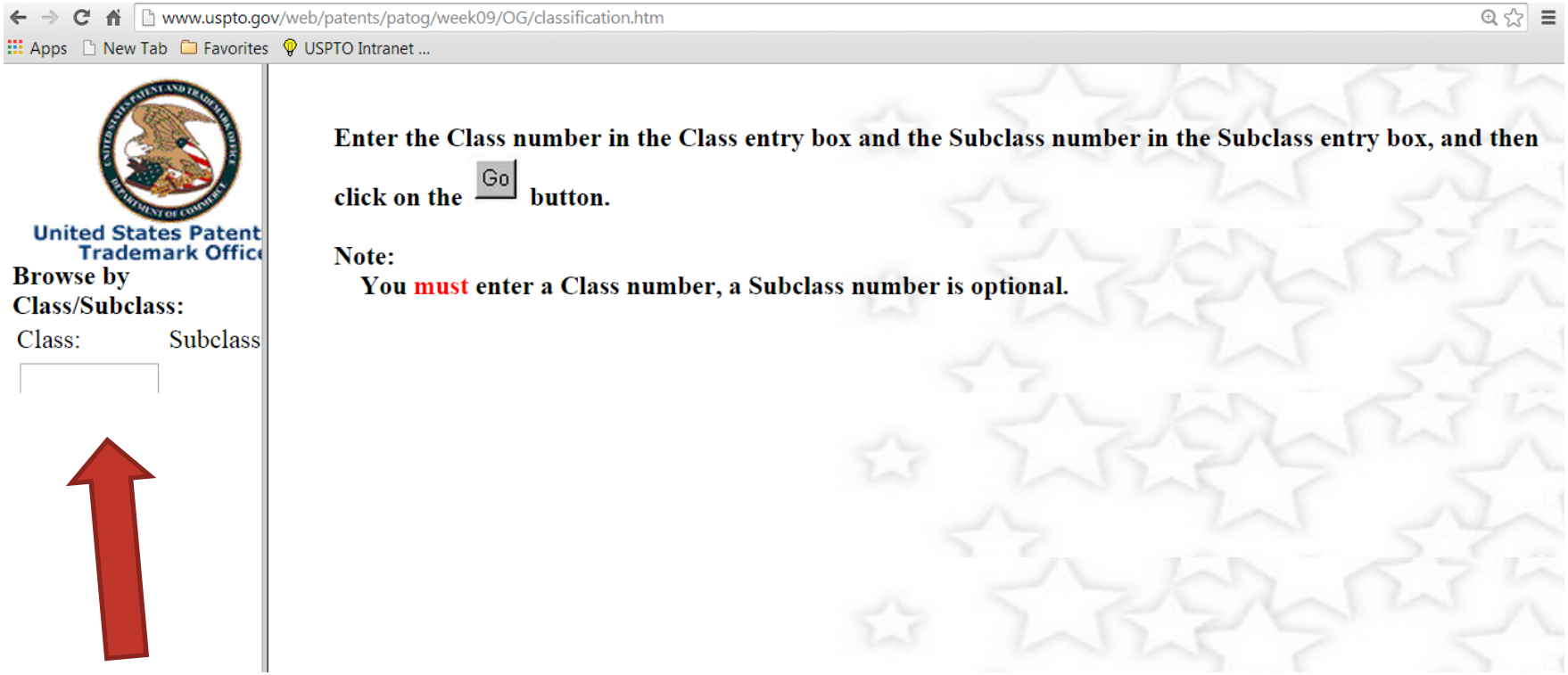
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Class:
Subclass
Enter the Class number in the Class entry box and the Subclass number in the Subclass entry box, and then click on the Go button.
Note:
You must enter a Class number, a Subclass number is optional.

CPC Transition Status at USPTO

- **SEARCH** USPC → CPC
- US collections will be static in USPC (frozen)
- As of January 1, 2015, internal and external users should use CPC for complete classifications search
- USPC will be available as a historical collection
  - unreliable for front file collection (2015 -)
  - B documents will only have CPC (IPC)

CPC Transition Status at USPTO

- **ASSIGNMENT OF WORK** USPC  CPC
- USPC will continue to be used in the near term
- USPC will only be used for organizational purposes

CPC Coverage

Much more than simply EP and US documents ...

CPC-Classified Documentation

U2

- US, CH, DE, FR, GB
  EP, WO (WIPO), AP (ARIPO), OA (OAPI)
  - i.e. min PCT with one family member in one of the EPO languages
    - JP, RU, ES are excluded because of languages
      - but we classify WO issued at these offices via English abstracts and figures
- BE, NL, LU (historical reasons)
- AT, AU, CA (first filing residents)

- Selected Non-Patent Literature (NPL) in EPO-only collection (NOT part of CPCDB)
  - pre-selected journals (field-dependent)
  - any article on examiner's request
  - identified by XP numbers

Slide 40

U2 why at EPO?

The ppt is for CPC.

Edited slide
Uspto1; 13-04-2015

CPC documentation coverage

Country	CC	Code	Systematically classified**	Non-systematically classified
ARIPO	AP		complete from 1 (3/7/1985)	
Austria	AT*	A,B	from 288 286 (15/1/1971)	from 100 022 (1925)
Australia	AU*	B,D	from 18/1/1973 (first filing: 1971)	from 1 019 332 (1933)
Belgium	BE		from 100 486 (1892)	years 1959-1962
Canada	CA*		from 848 159 (4/8/1970) for first filling residents from 939 101 (1/1/1974)	from 114 746 (1908)
Switzerland	CH	A,B D	from 208 320 (31/1/1939) from 1968	from 1 (1888)
Germany	DE	A,B,C U	from 1 (1877) from 6 609 798 (04/1/1973)	from 1 037 492 (1928)
EPO	EP	A	complete from 1 (20/12/1978)	
France	FR	A,B E	from 292 (1844) from 92 701 (20/12/1968)	
United Kingdom	GB	A,B	from 1909 02 488 (27/1/1910)	from 1817 04 136 (1817)
Luxembourg	LU		from 555 (<1920)	
The Netherlands	NL		from 28 (1913)	
OAPI	OA		complete from 1 (15/01/1966)	
The United States	US	A,B E I (defensive) I (trial, project) H	complete from 1 (13/07/1836) complete from 8 (23/4/1839) complete from 120 (04/10/1855) complete from 1 (03/12/1985)	
World(PCT)	WO		complete from 7800001 (19/10/1978)	

* for first filings only ie. without foreign priorities

** when the indication "complete" is not present, this means that some documents in the collection may not be classified in CPC

CPC coverage of other patent documents (directly classified and via the family concept – as of 15.03.2015)

Country	Docs present in DocDB	Docs classified in CPC (DocDB & CPCDB)	% Docs classified in CPC
Japan	16.886.236	4.123.806	24,4%
China	8.579.224	1.627.479	18,8%
Korea	2.810.926	878.787	31,3%
Brazil	527.234	310.234	58,8%
Russian Fed.	2.070.407	244.158	11,8%

CPC coverage – Classification at document level by National Offices (status 15.03.2015)

Country code	Total number of documents (DocDB)	Number of publications with CPC or CPCNO	Number of publications with CPCNO
AT	999.778	643.087	2.098
ES	1.017.109	589.522	27.853
FI	191.815	110.446	4.563
GB	2.351.431	2.094.392	104.312
GR	98.582	51.990	4.654
SE	518.545	327.845	136.940
CN	8.579.098	1.627.479	29.560
Total:	**13.756.358**	**5.444.761**	**309.980**

Over 42 million docs classified in CPC

CPC Amendments

CPC Scheme Revisions

2013

- April 2013
- July 2013
- September 2013
- November 2013
- December 2013

2014

- February 2014
- June 2014
- July 2014
- September 2014
- October 2014
- November 2014

2015

January 2015

April 2015

May 2015

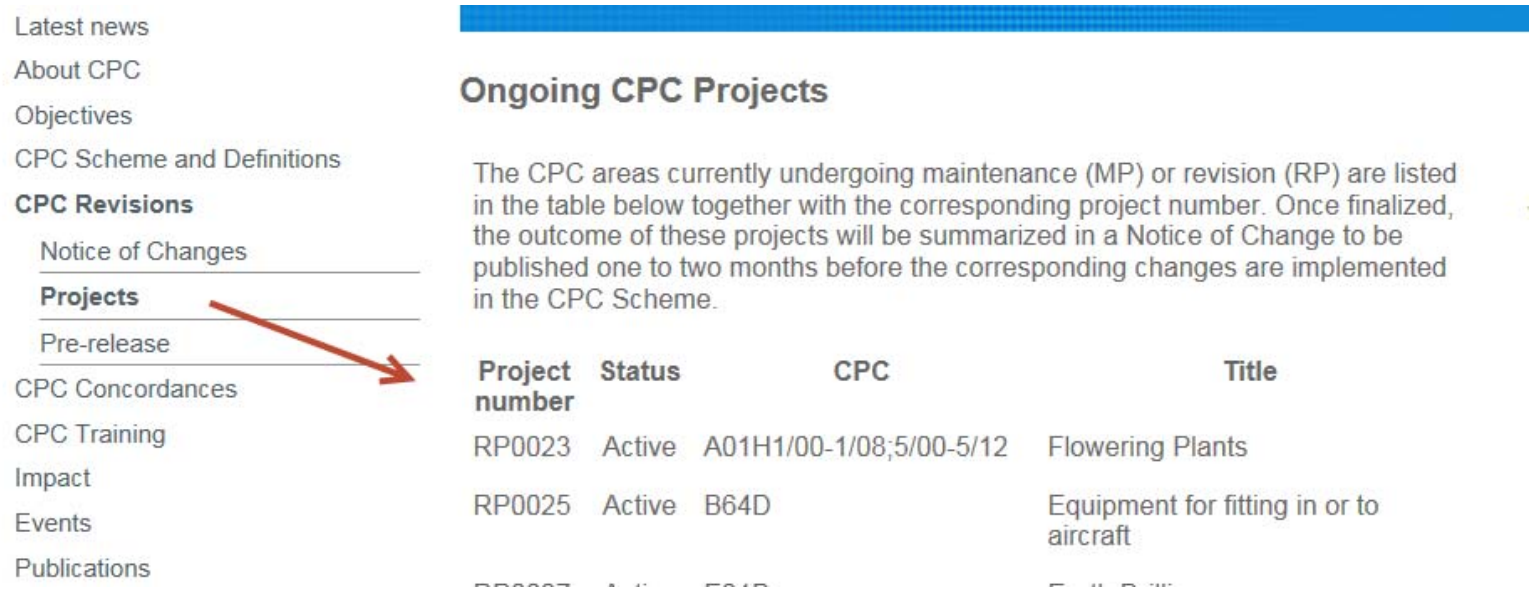
July 2015

September 2015

Advance information?

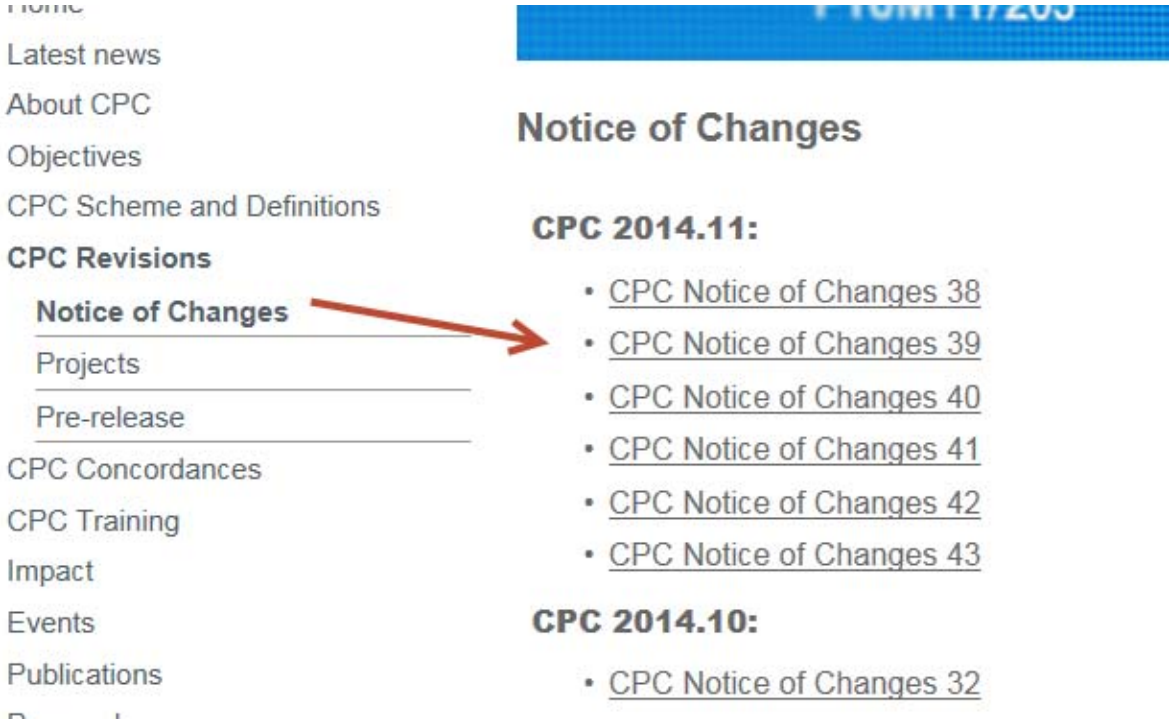
www.cpcinfo.org

- Short summary of the ongoing CPC revision projects:
  http://www.cooperativepatentclassification.org/CPCRevisions/Projects.html



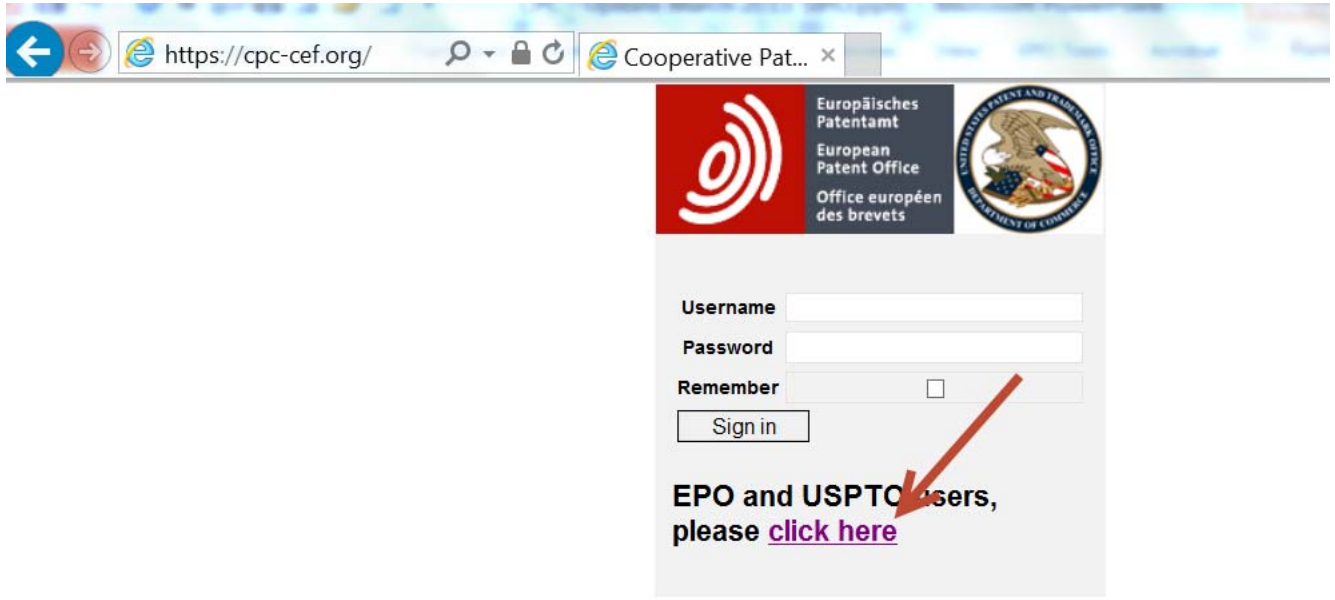
More detailed information?

- **CPC Notices of Changes (NoC) (PDF)**
  - documents detailing the changes made to the scheme following a CPC Scheme revision as well as their impact
  - available one to two months prior to the entry into force of a new version of the CPC Scheme



Follow the discussions?

- Offices classifying in the CPC have **read-access** to the **CPC Electronic Forum (CEF)**
- **Federated access required** (see discussion at SIPO IG 3),e.g. use of SAML identification method



CPC E-Forum

Cooperative Patent Classification (CPC) Electronic Forum

Office: EP

Mailing list

Request and Project List

A - Active

Any Type

Any Rapporteur

Any technology

Project:

Search in:

Any Field

Projects (277)

Actions list

Project	Subject	CPC	Tech.	Rap.	Next Action	Deadline	Update
CE0001	tbd	various	T	EP	The Action is not set		10-Dec-14
CE0002	Collaborative environment requirements		T	EP	The Action is not set		12-Feb-15
CM0001	CEF Issues and Wish Lists				The Action is not set		24-Nov-14
DP0022	Stereophonic Systems	H04S	E	EP	The Action is not set		02-Mar-15
DP0027	Selection of the material for the legs of the junction	H01L35/12	E	EP	The Action is not set		05-Mar-15
DP0030	Synchronisation of signals	H04J3	E	EP	Definitions - Modified Proposal	25-Mar-15	09-Mar-15
DP0033	Methods or arrangements for coding, decoding, compressing or decompressing digital video signals	H04N19/00	E	US	The Action is not set		10-Feb-15
DP0034	Loudspeakers, microphones, grammophone pick-ups; deaf-aid sets	H04R	E	EP	The Action is not set		20-Feb-15
DP0036	Compositions of macromolecular compounds obtained by reactions forming a carbon-to-carbon	C08L65	C	EP	The Action is not set		11-Mar-15

Pre-release of the CPC scheme

- **Pre-release of the CPC scheme** on cpcinfo.org one month before the entry into force of a new version:

  - Pre-release on first Tuesday of the month preceding entry into force of new version
  - New version of the CPC scheme enters into force on the first day of the month

For example:

- entry into force 1 June 2014
- pre-release on 6 May 2014

Beyond CPC

Contribution to IP5 and IPC

IPC sub-classes/main groups with more substantive modifications in IPC2015.01	
A61K 35/00	Medicinal preparations containing materials or reaction products thereof with undetermined constitution
A63B 49/00 – 102/00	Stringed rackets (e.g. for tennis) and golf clubs, including new indexing scheme for clubs, bats and rackets (A63B 102/00)
B33, B33Y	Additive manufacturing technology – also known as “3D printing”
E05F 15/00	Power-operated mechanisms for wings
F21V 29/00	Protecting lighting devices from thermal damage; Cooling or heating arrangements specially adapted for lighting devices or systems
G02B 1/00	Optical elements characterised by the material of which they are made
H01Q 5/00	Arrangements for simultaneous operation of aerials on two or more different wavebands Indexing scheme for special adaptation of control arrangements for generators
H04B	Transmission

CPC Allocation Standard

An allocation standard for CPC, based on WIPO's Standard 8

CPC allocation standard - based on WIPO ST.8

Position(s)	*Content*	*Values*
1	Section	A,…,H **and Y**
2,3	Class	01,…,99
4	Subclass	A,…,Z
5 to 8	Main Group (right aligned)	1,…,9999, blank
9	Separating character	/ ("Slash")
10 to 15	Subgroup (left aligned)	00,…,999999, blank
16 to 19	For future use	4 blanks
20 to 27	Version indicator	YYYYMMDD date format
28	Classification level	~~C,A,S~~
29	First or later position of symbol	F,L
30	Classification value (invention or additional)	I,~~N~~ **A**
31 to 38	Action date	YYYYMMDD date format
39	Original or reclassified data	B,R,~~V,D~~
40	Source of classification data	H,~~M~~,G **C** (Concordance)
41-42	Generating office	~~AA,…,ZZ (ST.3)~~ **only for CPCNO**
43-50	For future use	8 blanks

Version 1.0

CPC Allocation standard (EPO DOCDB tags)

WIPO/ST8 tags supported	Pos. in ST.8	Description	Values
<classification-symbol>	1	section	A ,....,H and Y
	2,3	class	01,....,99
	4	subclass	A,....,Z
	5 to 8	main group	1,....,9999 right aligned
	9	separator	/ ("slash")
	10 to 15	subgroup	00,....,999999
<classification-scheme><date>	20 to 27	version-indicator	CCYYMMDD
<classification-level>	28	core/advanced	not applicable
<symbol-position>	29	first / later	F/L
<classification-value>	30	invention	I
		additional	A
<action-date>	31 to 38	date format	CCYYMMDD
<classification-status>	39	original	B
		reclassified	R
<classification-data-source>	40	human	H
		concordance	C
		generated	G
<generating-office>	41, 42	country-code	only for CPCNO

CPC Allocation standard (USPTO XML tags)

XML tag	Pos. in ST.8	Description	Permisible Values
<classification-cpc>		CPC symbol	
<section>	1	section	A, …, H and Y
<class>	2,3	class	01, …, 99
<subclass>	4	subclass	A, …, Z
<main-group>	5 to 8	main group	1, …, 9999 right aligned
	9	separator	/ ("slash")
<subgroup>	10 to 15	sub group	00, …, 999999
<cpc-version-indicator>	20 to 27	version-indicator	CCYYMMDD
	28	clasification level	not used
<symbol-position>	29	First or Later	F, L
<classification-value>	30	Invention or Additional	I, A
<action-date>	31 to 38	Date symbol recorded	CCYYMMDD
<classification-status>	39	Original or Reclassified	B, R
<classification-data source>	40	Source of allocation	H, C, M, G
<generating-office>	41-42	country code	US, other ST.3

New XML schema for scheme and definitions

Changes to CPC-scheme schema

- New attributes in <classification-item> element
- New attribute in <media> element
- New elements
- Modified element <notes-and-warnings>
- Image files - Naming convention

New attributes in <classification-item> element

Attribute “status”

The mandatory attribute “**status**” has been added to the <*classification-item*> element.

The attribute “**status**” will have 2 possible values:

- ❑ published
- ❑ frozen

New attributes in <classification-item> element

Attribute “ipc-concordant”

The CPC-to-IPC concordance has been introduced as an additional optional attribute to the *<classification-item>* element, as “**ipc-concordant”**.

This attribute will only be populated for all symbols at level 7 or higher.

The value can be:

- ❑ CPCONLY
- ❑ the IPC symbol

New attributes in <classification-item> element

Attribute “definition-exist”

The optional new attribute **”definition-exists”** has been introduced in the <*classification-item*> element. It indicates if a given symbol has a definition.

- ❑ The value is “true” or “false”.

Attribute “level” and “sort-key”

The attributes “**level**” and “**sort-key**” are set from optional to mandatory attributes in the <*classification-item*> element

New attribute in <media> element

Attribute "file-name"

A new optional attribute "**file-name**" attribute has been introduced to the <*media*> element.

The value for the attribute "file-name" is:

cpc-sch-<subclass>-<seq_number.png>

(The <seq_number> is 4 digits)

Example:

file-name="**cpc-sch-A61K-0952.png"**

New elements

Elements <sub> and <sup>

The addition of “**sup**” (superscript) and ”**sub**” (subscript) to wherever text is allowed.

A61K 51/0474	. . .	{complexes or complex-forming compounds, i.e. wherein a radioactive metal (e.g. 111In3+) is complexed or chelated by e.g. a N_2S_2, N_3S, NS_3, N_4 chelating group}

```
<class-ref scheme="cpc">A61K51/0474</class-ref> (3 dots): complexes or complex-forming
compounds, i.e. wherein a radioactive metal (e.g. <sup>111</sup>In<sup>3+</sup>) is complexed
or chelated by e.g. a N<sub>2</sub>S<sub>2</sub>, N<sub>3</sub>S, NS<sub>3</sub>,
N<sub>4</sub> chelating group.....</paragraph-text>
```

Modified element <notes-and-warnings>

Attribute “type”

A similar bullet/numbering indicator attribute **“type”** for <*subnote*> as in IPC has been introduced.

Possible values are:

- Roman
- roman
- number
- Alpha
- alpha
- bullet

Modified element <notes-and-warnings>

Attribute “warning-type”

An optional attribute **“warning-type”** at the <*note-paragraph*> level has been introduced.

Possible values for the attribute are:

- reclass-source
- reclass-destination
- ipc-not-used

Modified element <notes-and-warnings>

<Note> element

The <*note*> element will no longer allow a mixed content model. The <*note-paragraph*> is only allowed as a direct child of the <*note*> element.

Redundant elements

The following redundant “warning-type” values have been abolished:

* incomplete
* transferred-to
* ipc-discordance
* ecla-reform
* idt
* miscellaneous

Image files – Naming convention

The image file names are renamed from

<###>.ext

to

cpc-sch-<subclass>-<seq_number>.ext

(e.g. the first image to appear in the D01B scheme would be **cpc-sch-D01B-0001.png**)

Changes to CPC definition schema

- New attributes in <media> element
- New elements
- Image file names - Naming convention

New attribute in <media> element

Attribute "file-name"

A new optional attribute "**file-name**" attribute has been introduced to the <*media*> element.

The value for the attribute "file-name" is:

cpc-def-<subclass>-<seq_number.png>

(The <seq_number> is 4 digits)

Example:

file-name="**cpc-def-A61K-0001.png"**

New elements

Elements <sub> and <sup>

The addition of “**sup**” (superscript) and ”**sub**” (subscript) to wherever text is allowed.

A61H 2033/145

{with CO_2}

```
definition-item><classification-symbol scheme="cpc">A61H2033/145</classification-symbol>-
<definition-title>{with CO<sub>2</sub>}
```

Image files – Naming convention

The image file names are renamed from

media<#>.png

to

cpc-def-<subclass>-<seq_number>.ext

(e.g. the first image to appear in the D01B definition will be **cpc-def-D01B-0001.png**)

The four digits before ".png" represent a sequential number that is added to ensure the uniqueness of each image file name.

EPO Web services

TOPICS

- Web service for uploading classification data
- OPS RESTful web services (classification)

Web service to upload CPC classification data

- Status of the web services
- Introduction
- Example of EPO internal viewer of the web services
- Example of EPO internal viewer of the web services with some error reports
- Type of data errors
- Translation service from ST36 into OX format
- Example structure optimized XML (OX)
- Example of query on transaction data

Status of the classification web services

Web services are in production since

July 2014

Introduction (1/3)

- The web service provides a means for a National Office to submit collections of patent documents with CPC allocations (single symbols and C-sets).
- Current bibliographic data format is based on ST36/CPC allocation standard (ST8) and DocDB XML format.
- Current data loading processes in place do not support the update of only one symbol, only replacement of full set of symbols.
- Web service allows the update of a single symbol

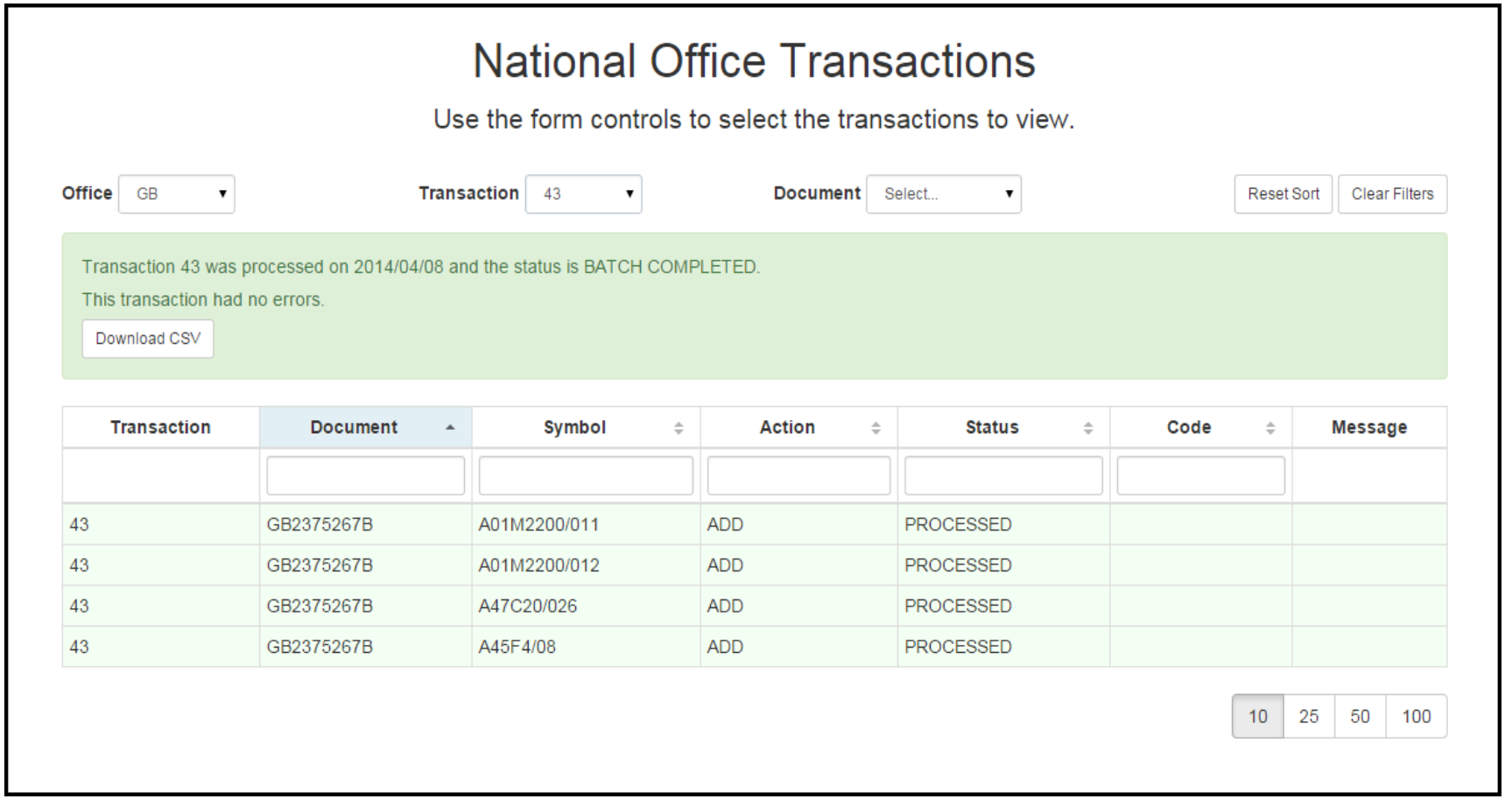
Introduction (2/3)

- To be able to support this single symbol update, the web service expects a so-called “Optimised XML” (OX) format, this will allow the possibility to modify a single allocation (reclassification).
- A separate service is provided that enables a National Office to transform their ST36 XML format to the OX format so that it can be processed by the web-service (JAVA-API).
- Every batch of submitted data (transaction) will be posted in a staging area and processed in a nightly batch process, that will upload and validate the data.
- Validation of data (valid symbol, INV, ADD etc.)

Introduction (3/3)

- The web services provide a means for a national Office to query their uploaded data, for example to query the status of a submitted batch or allocations therein

Example of EPO internal viewer service for the web services



National Office Transactions

Use the form controls to select the transactions to view.

Office GB ▾ Transaction 43 ▾ Document Select... ▾ Reset Sort Clear Filters

Transaction 43 was processed on 2014/04/08 and the status is BATCH COMPLETED.

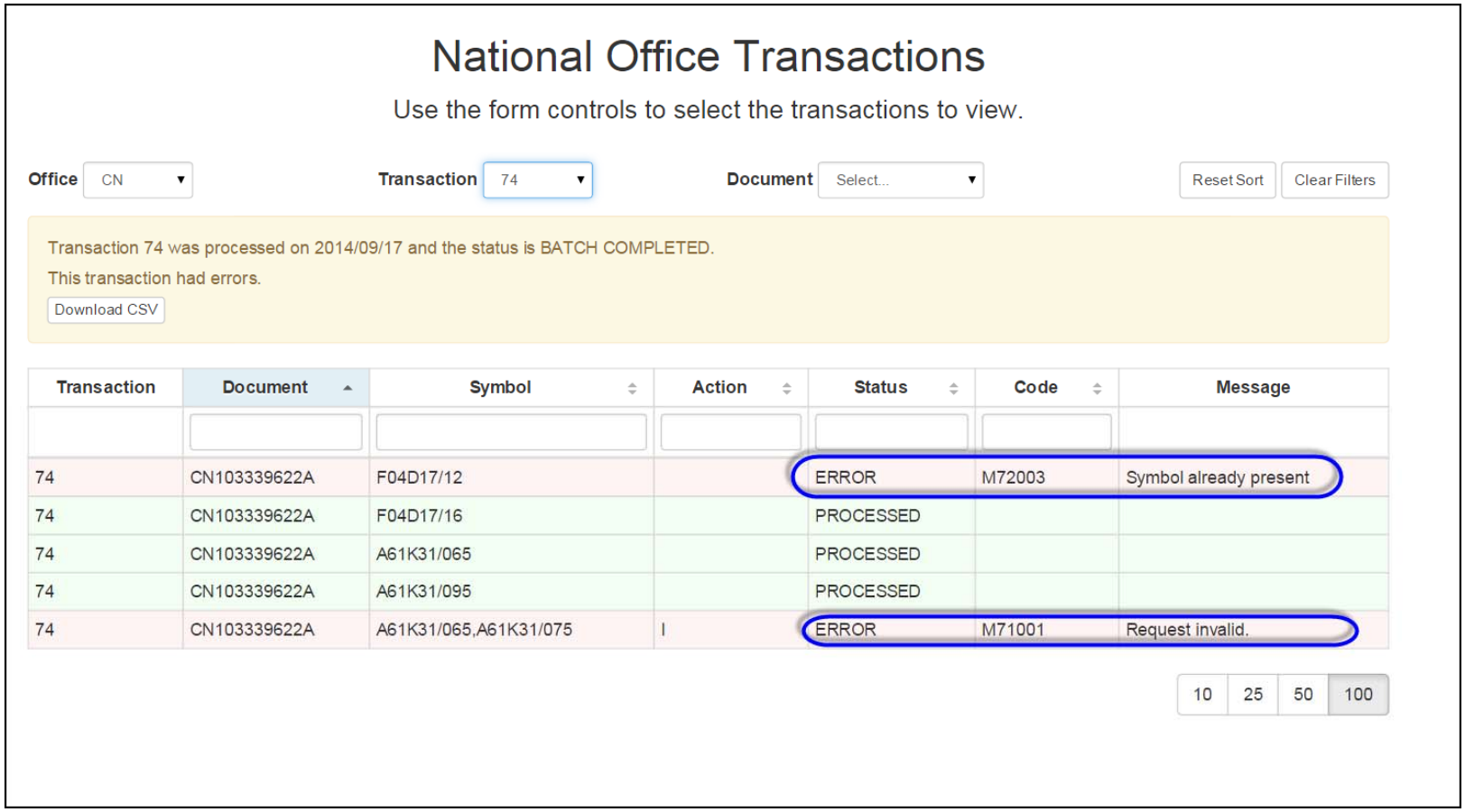
This transaction had no errors.

Download CSV

Transaction	Document	Symbol	Action	Status	Code	Message
43	GB2375267B	A01M2200/011	ADD	PROCESSED		
43	GB2375267B	A01M2200/012	ADD	PROCESSED		
43	GB2375267B	A47C20/026	ADD	PROCESSED		
43	GB2375267B	A45F4/08	ADD	PROCESSED		

10 25 50 100

Example of EPO internal viewer of the web services with some error reports



National Office Transactions

Use the form controls to select the transactions to view.

Office: CN | Transaction: 74 | Document: Select... | Reset Sort | Clear Filters

Transaction 74 was processed on 2014/09/17 and the status is BATCH COMPLETED.

This transaction had errors.

Download CSV

Transaction	Document	Symbol	Action	Status	Code	Message
74	CN103339622A	F04D17/12		ERROR	M72003	Symbol already present
74	CN103339622A	F04D17/16		PROCESSED		
74	CN103339622A	A61K31/065		PROCESSED		
74	CN103339622A	A61K31/095		PROCESSED		
74	CN103339622A	A61K31/065,A61K31/075	I	ERROR	M71001	Request invalid.

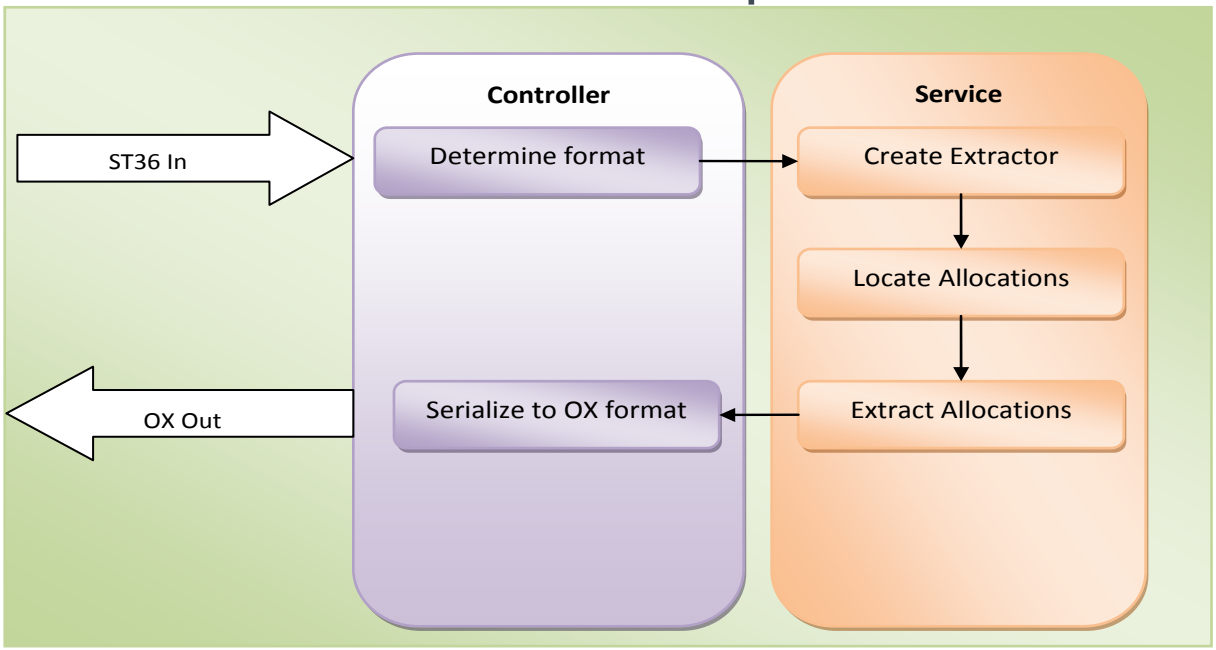
10 | 25 | 50 | 100

Type of data errors

- Document not found
- Invalid document
- Invalid classification attribute
- Symbol not found
- Symbol already present
- Invalid request
- Allocated symbol to be deleted is not found

Translation service from ST36 into OX format

- Acceptance of any form of XML documents confirming to ST36 standards
- All CPC classifications and C-set allocations are extracted and transformed into the OX format
- OX format is returned in the responses



Example structure optimized XML (OX)

```
<patent-documents>
	<patent-document country="SE" doc-number="7908310" kind="L" status="A">
		...
	</patent-document>
	<patent-document country="SE" doc-number="5908310" kind="L"
		status="A">
		<patent-classification>
			<classification-scheme office="EP" scheme="CPCNO">
				<date>20130101</date>
			</classification-scheme>
			<classification-symbol>G06F9/06</classification-symbol>
			<classification-value>I</classification-value>
			<classification-status>B</classification-status>
			<classification-data-source>H</classification-data-source>
			<generating-office>SE</generating-office>
			<action-date>
				<date>20130101</date>
			</action-date>
		</patent-classification>
	</patent-document>
</patent-documents>
```

The <patent-classifications> container element may have a mixed content of:

- Classification allocations (<patent-classification>)
- Combination Sets of classification allocations "grouped in sequence". (<combination-set>)

Example of query on transaction data:

Structure:	GET /service/<version>/office/<country-code>
Example:	http://ecs-t.internal.epo.org/service/1.0.0/office/GB

Example Response Body

```
<national-office cc="GB" href="/service/1.0.0/office/GB ">
    <transaction id="101" status="PENDING"
href="/service/1.0.0/office/GB/transaction/101" />
    <transaction id="102" status="PENDING"
href="/service/1.0.0/office/GB/transaction/102" />
</national-office>
```

OPS RESTful web services

- CPC Retrieval
- CPC Media retrieval
- CPC Search
- Concordance mapping service

CPC Retrieval

Valid Query-string parameters in the CPC service

Query-string	Description
depth	Determines how many children elements should be included in the response
ancestors	Includes symbols above the requested element
navigation	Includes navigation symbols next & previous in the response

Request for the classification B32B7/00 with 1 child element:

http://ops.epo.org/3.1/rest-services/classification/cpc/b32b7/00?depth=1

```
xml version="1.0" encoding="UTF-8" standalone="yes" ?>
vorld-patent-data xmlns:ops="http://ops.epo.org" xmlns:reg="http://www.epo.org/register"
xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:cpc="http://www.epo.org/cpcexport"
xmlns:cpcdef="http://www.epo.org/cpcdefinition">
neta name="elapsed-time" value="0" />
:lassification-scheme>
:pc>
:lass-scheme scheme-type="cpc" export-date="2013-12-03">
:lassification-item level="7" additional-only="false" sort-key="B32B7/00" not-allocatable="false" breakdown-code="false" date-
revised="2013-11-22" link-file="classification/cpc/B32B7/00">
lassification-symbol>B32B7/00</cpc:classification-symbol>
:lass-title date-revised="2013-01-01">
itle-part>
ext scheme="ipc">Layered products characterised by the relation between layers, i.e. products comprising layers having different
physical properties and products characterised by the interconnection of layers</cpc:text>
:pc:title-part>
:pc:class-title>
:lassification-item level="8" additional-only="false" sort-key="B32B7/005" not-allocatable="false" breakdown-code="false" date-
revised="2013-11-22" link-file="classification/cpc/B32B7/005">
lassification-symbol>B32B7/005</cpc:classification-symbol>
:lass-title date-revised="2013-01-01">
itle-part>
:omment>
ext scheme="cpc">in respect of orientation of features</cpc:text>
:xplanation>
ext scheme="cpc">
lass-ref scheme="cpc">B32B5/12</cpc:class-ref>
‹es precedence
:pc:text>
:pc:explanation>
:pc:comment>
:pc:title-part>
:pc:class-title>
neta-data>D</cpc:meta-data>
:pc:classification-item>
:lassification-item level="8" additional-only="false" sort-key="B32B7/02" not-allocatable="false" breakdown-code="false" date-
revised="2013-11-22" link-file="classification/cpc/B32B7/02">
lassification-symbol>B32B7/02</cpc:classification-symbol>
:lass-title date-revised="2013-01-01">
itle-part>
ext scheme="ipc">in respect of physical properties, e.g. hardness</cpc:text>
:pc:title-part>
:pc:class-title>
neta-data>D</cpc:meta-data>
:pc:classification-item>
:lassification-item level="8" additional-only="false" sort-key="B32B7/04" not-allocatable="false" breakdown-code="false" date-
revised="2013-11-22" link-file="classification/cpc/B32B7/04">
lassification-symbol>B32B7/04</cpc:classification-symbol>
:lass-title date-revised="2013-01-01">
itle-part>
ext scheme="ipc">characterised by the connection of layers</cpc:text>
:pc:title-part>
:pc:class-title>
neta-data>+</cpc:meta-data>
:pc:classification-item>
neta-data>+D</cpc:meta-data>
:pc:classification-item>
:pc:class-scheme>
ops:cpc>
ops:classification-scheme>
ops:world-patent-data>
```

CPC Media retrieval

- To retrieve CPC media referenced in the classification text in the format specified (format gif, jpeg, tif, mp3 etc....)

- The media name and type can be extracted from the CPC retrieval response.

Example request:

http://ops.epo.org/3.1/restservices/classification/cpc/media**/[image-name]**

Example

Use the classification retrieval service, extract the media name and type from the response (e.g. **A01N37/12** symbol):

```
<ops:world-patent-data xmlns:ops="http://ops.epo.org"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:cpc="http://www.epo.org/cpcexport">
  <ops:meta name="elapsed-time" value="1"/>
  <ops:classification-scheme>
    <ops:cpc>
      <cpc:class-scheme scheme-type="cpc" export-date="2012-10-13">
        <cpc:classification-item level="8" additional-only="false" sort-
key="A01N37/12" not-allocatable="false" breakdown-code="false" date-
revised="2012-10-12" link-file="classification/cpc/A01N37/12">
```

```
          <cpc:classification-symbol>A01N37/12</cpc:classification-symbol>
          <cpc:class-title date-revised="2012-10-12">
            <cpc:title-part>
              <cpc:text scheme="ipc">containing the group <cpc:media
id="classification/cpc/media/100.gif" type="gif"/>, wherein Cn means a
carbon skeleton not containing a ring</cpc:text>
            </cpc:title-part>
            <cpc:title-part>
              <cpc:text scheme="ipc"> Thio analogues thereof</cpc:text>
            </cpc:title-part>
          </cpc:class-title>
        </cpc:classification-item>
      </cpc:class-scheme>
    </ops:cpc>
  </ops:classification-scheme>
</ops:world-patent-data>
```

Request example:

```
GET http://ops.epo.org/3.1/rest-services/classification/cpc/media/100.gif

Accept: image/gif
```

The image in GIF format will be the response

CPC Search

In the case you do not know the name of a symbol, this service will identify possible interesting CPC symbols by searching for keywords in title and abstracts in the Espacenet database

The result will be a list of CPC symbols with a percentage value.

Only the first 10 CPC symbols with the highest percentage are shown.

Example:

http://ops.epo.org/3.0/rest-services/classification/cpc/search/?q=laminate

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <ops:world-patent-data xmlns:ops="http://ops.epo.org" xmlns:reg="http://www.epo.org/register" xmlns:xlink="http://www.w3.org/1999/xl
  xmlns:cpcdef="http://www.epo.org/cpcdefinition">
  <ops:meta name="elapsed-time" value="728" />
- <ops:classification-search total-result-count="10" scheme-type="CPC">
    <ops:query syntax="CQL">titleandabstract = laminate</ops:query>
  - <ops:search-result>
    - <ops:classification-statistics classification-symbol="B32B27/00" percentage="5.485232">
      - <cpc:class-title date-revised="2013-01-01">
        - <cpc:title-part>
            <cpc:text scheme="ipc">Layered products comprising</cpc:text>
          - <cpc:comment>
              <cpc:text scheme="cpc">a layer of</cpc:text>
            </cpc:comment>
            <cpc:text scheme="ipc">synthetic resin</cpc:text>
          - <cpc:comment>
            - <cpc:explanation>
              - <cpc:text scheme="cpc">
                  <cpc:class-ref scheme="cpc">B32B5/02</cpc:class-ref>
                  ,
                  <cpc:class-ref scheme="cpc">B32B5/16</cpc:class-ref>
                  ,
                  <cpc:class-ref scheme="cpc">B32B5/18</cpc:class-ref>
                  take precedence; thermoplastic elastomer
                  <cpc:class-ref scheme="cpc">B32B2274/00</cpc:class-ref>
                </cpc:text>
              </cpc:explanation>
            </cpc:comment>
          </cpc:title-part>
        </cpc:class-title>
      </ops:classification-statistics>
    - <ops:classification-statistics classification-symbol="B32B15/00" percentage="2.2503517">
      - <cpc:class-title date-revised="2013-01-01">
        + <cpc:title-part>
        </cpc:class-title>
      </ops:classification-statistics>
    - <ops:classification-statistics classification-symbol="B32B2307/00" percentage="1.8284107">
      - <cpc:class-title date-revised="2013-01-01">
        - <cpc:title-part>
            <cpc:text scheme="ipc">Properties of the layers or laminate</cpc:text>
          </cpc:title-part>
        </cpc:class-title>
      </ops:classification-statistics>
    - <ops:classification-statistics classification-symbol="B32B7/00" percentage="1.8284107">
      - <cpc:class-title date-revised="2013-01-01">
        - <cpc:title-part>
            <cpc:text scheme="ipc">Layered products characterised by the relation between layers, i.e. products comprising layers having
              interconnection of layers</cpc:text>
```

Concordance mapping services

Mapping services from ECLA/CPC to ECLA/CPC/IPC

As of 1 April ECLA/CPC concordance no longer supported

USPTO Web services

TOPICS

- ❖ Web service for uploading classification data for national offices

- ❖ Web service for retrieving classification data for national offices

- Will be available in the future

Web service to upload CPC classification data

- National offices can send their data to USPTO for loading
- USPTO supports ST.96, ST.36, and other formats

Web service to download CPC classification data

- National offices can request CPC family picture of priority document

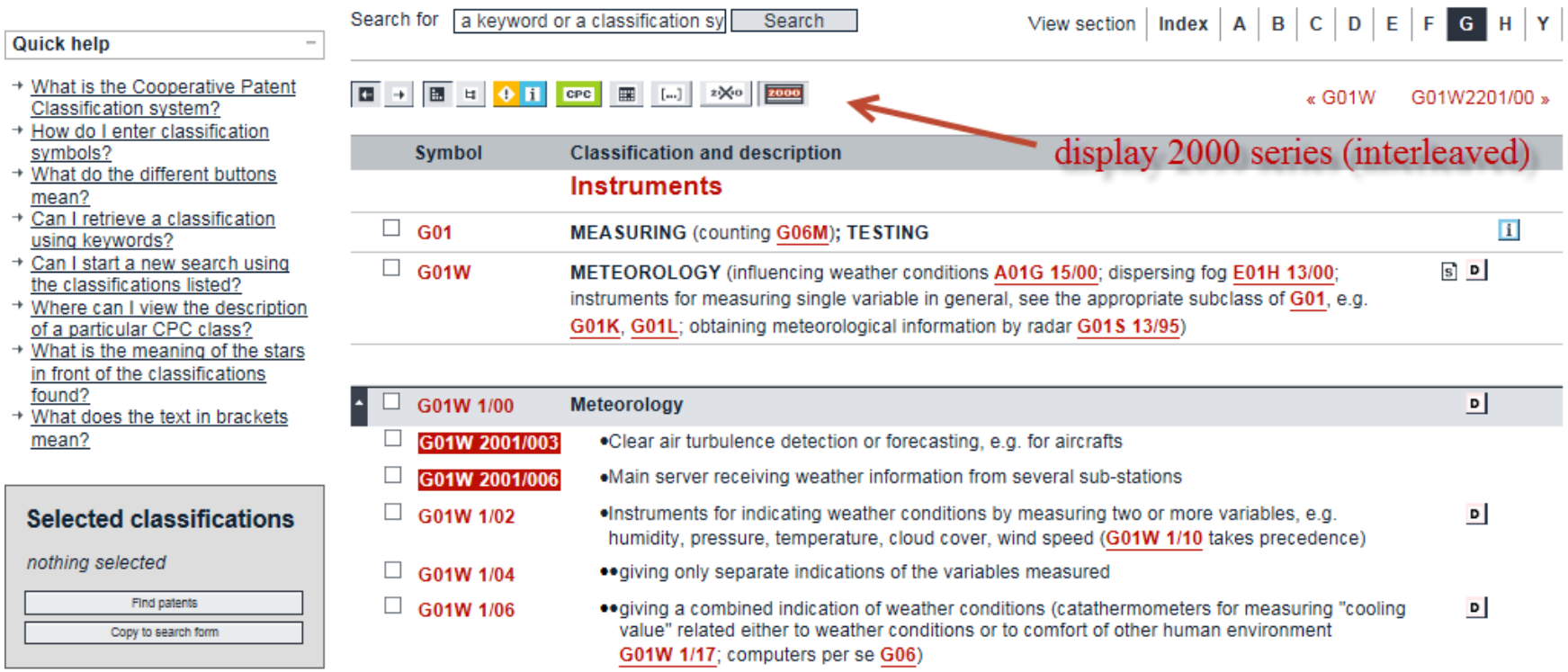
CPC in Espacenet

CPC in Espacenet

http://worldwide.espacenet.com/

Interleaved presentation

NEW



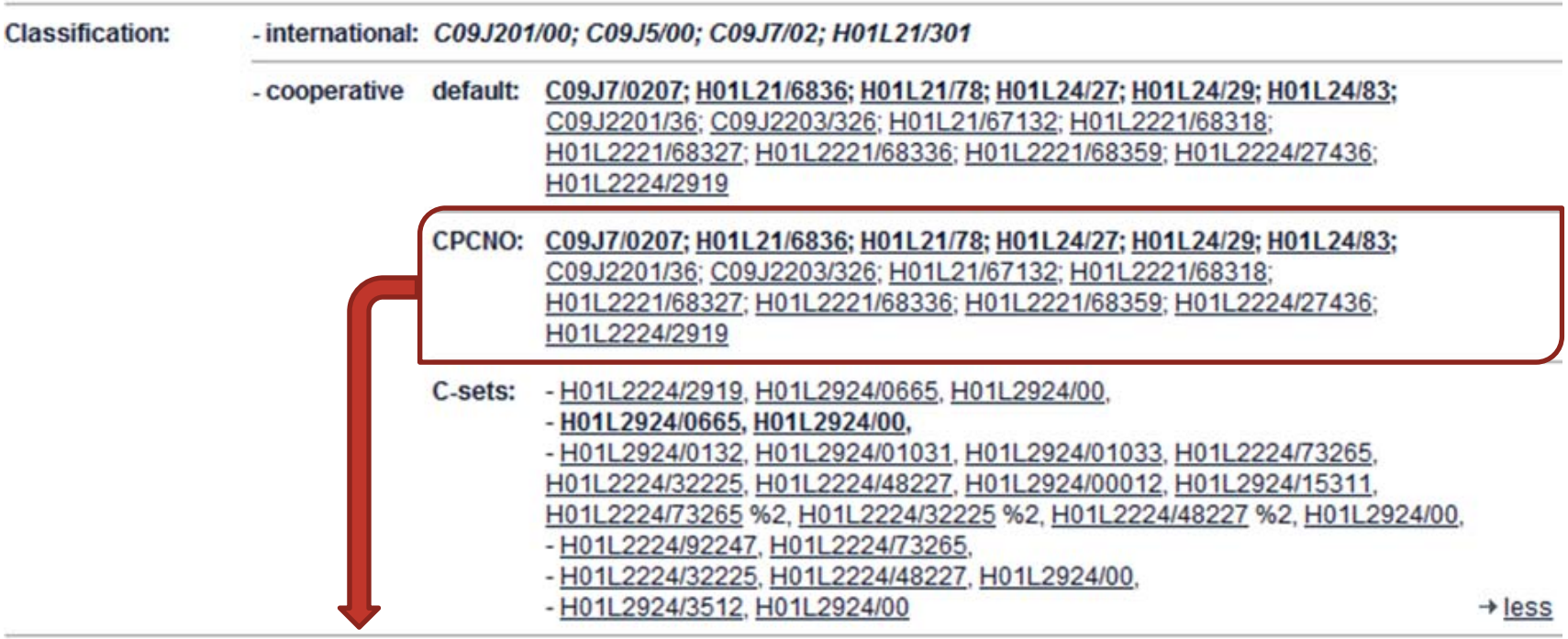
Combination Sets

SALTS OF 3-PENTYLPHENYLACETIC ACID AND PHARMACEUTICAL USES THEREOF

Page bookmark	PT2427417 (E) - SALTS OF 3-PENTYLPHENYLACETIC ACID AND PHARMACEUTICAL USES THEREOF
Inventor(s):	PENNEY CHRISTOPHER [CA]; ZACHARIE BOULOS [CA]; GAGNON LYNE [CA]; GROUIX BRIGITTE [CA]; BIENVENU JEAN-FRANCOIS [CA]; PERRON VALERIE [CA] ±
Applicant(s):	PROMETIC BIOSCIENCES INC [CA] ±
Classification:	**- international:** ***A61K31/192; C07C51/353; C07C51/36; C07C51/41; C07C57/30***
	- cooperative: **A61K31/192**; **C07C51/412**; **C07C57/30**; **C07C67/303**; **C07C67/343** → more
Application number:	PT20100771941T 20100503
Priority number(s):	US20090175215P 20090504

Classification:	**- international:**	***A61K31/192; C07C51/353; C07C51/36; C07C51/41; C07C57/30***
	- cooperative:	**default** **A61K31/192**; **C07C51/412**; **C07C57/30**; **C07C67/303**; **C07C67/343**
		C-sets **C07C51/412**, **C07C57/30**; **C07C67/303**, **C07C69/612**; **C07C67/343**, **C07C69/618** → less

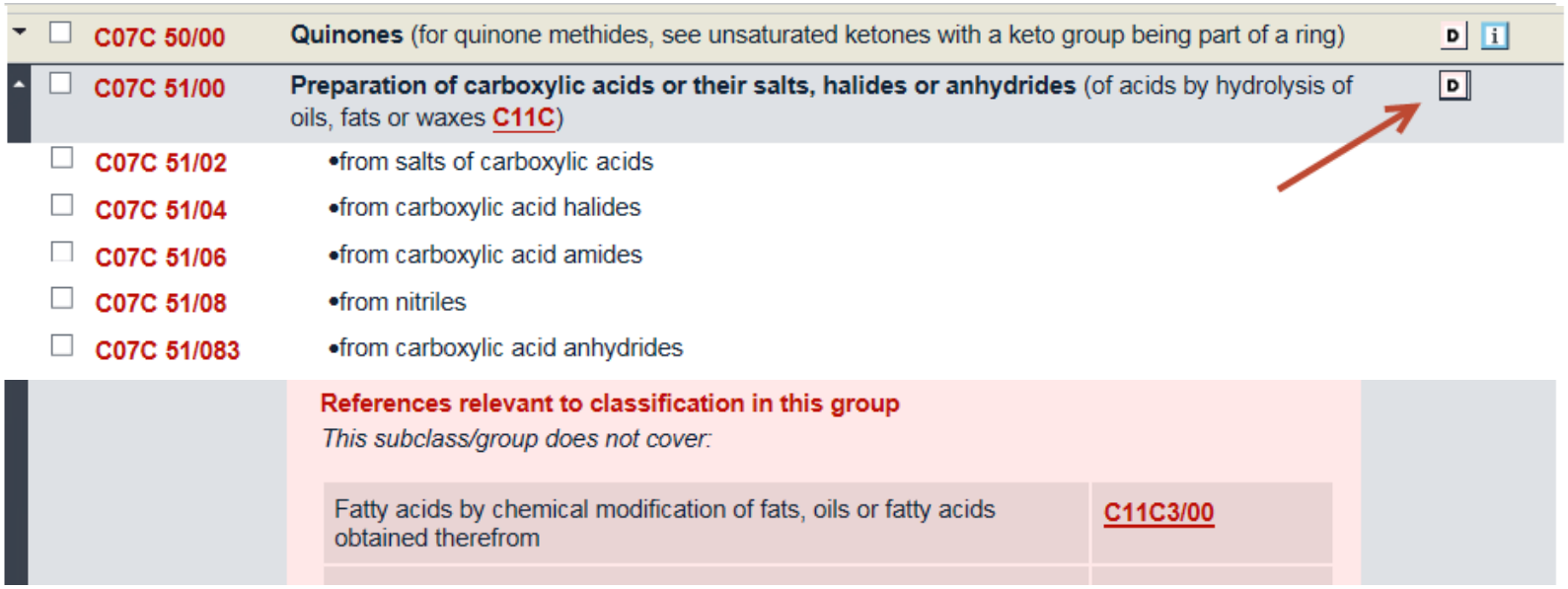
CPC data from National Offices (field CPCNO)



Currently: AT, CN, ES, FI, GB, SE, GR (document level)

Embedded Definitions

NEW



C07C 50/00	**Quinones** (for quinone methides, see unsaturated ketones with a keto group being part of a ring)	D i
C07C 51/00	**Preparation of carboxylic acids or their salts, halides or anhydrides** (of acids by hydrolysis of oils, fats or waxes C11C)	D
C07C 51/02	•from salts of carboxylic acids	
C07C 51/04	•from carboxylic acid halides	
C07C 51/06	•from carboxylic acid amides	
C07C 51/08	•from nitriles	
C07C 51/083	•from carboxylic acid anhydrides	

References relevant to classification in this group

This subclass/group does not cover:

Fatty acids by chemical modification of fats, oils or fatty acids obtained therefrom	C11C3/00

U3

Future Developments

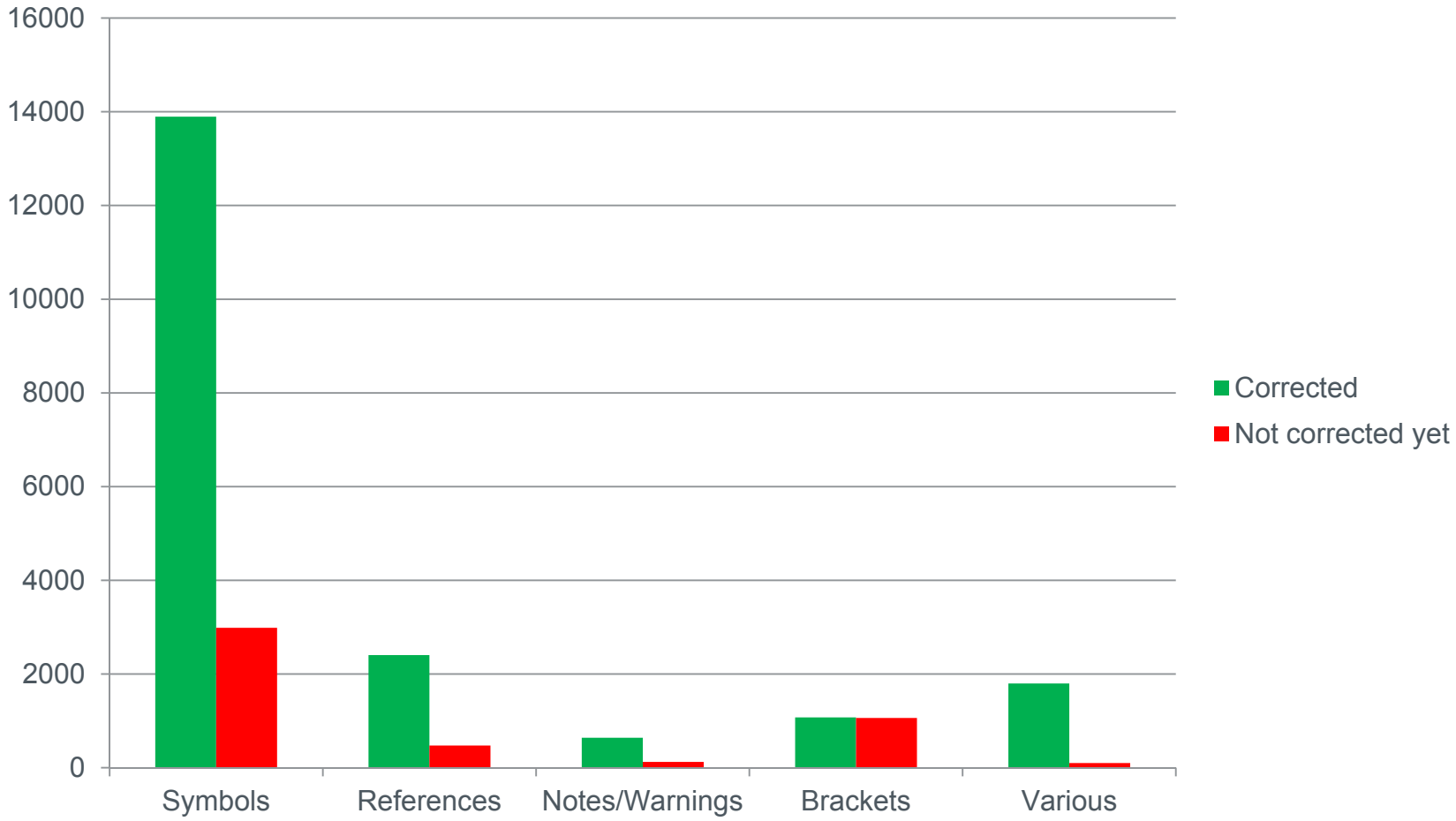
Slide 102

U3 Is thsi slide needed ???

Reword...
Uspto1; 13-04-2015

CPC Scheme & Definitions cleanup actions

Corrections made to CPC Scheme & Definitions



Clean up of Warnings in the CPC Scheme

- ~ 2 200 Warnings present in total
- ~ 400 Warnings refer to differences between CPC and IPC
- ~ 1 800 Warnings need to be removed after finalisation of pre-CPC reclassification

- Objective:

Remove 1800 Warnings from the CPC scheme by the **end of 2017** after finalisation of the pending pre-CPC reclassification

Expansion Climate Change Mitigation Technologies (CCMTs)

Climate change mitigation technologies

- Since 2009, EPO has been using a user friendly cross-sectional classification scheme for indexing climate change mitigation technologies (CCMT), with currently 5 subclasses
  - Y02C for Carbon Capture technologies
  - Y02E for Energy production and storage
  - Y02B for Buildings
  - Y02T for Transport

- In May 2015, the Y02W will be launched for CCMT related wastewater treatment or waste management technologies

- In the last months of 2015, the Y02P - Production will be launched for energy-intensive industries (e.g. cement, metallurgy)

ECLA decommissioning

- **April 2015** will see ECLA/ICO disappear from EPO's search tools
- The ECLA database will remain as an archive, not for front-file classification
- No backward mapping from CPC to ECLA/ICO anymore

New approach for CPCNO data

CPC data from National Offices

- Currently, CPC data from National Offices are stored at document level, in the C(PC)NO fields:
  - family members can bear different C(PC)NO allocations
  - classification at document level may be different from that at family level
  - unique documents do not get a CPC allocation at family level

Current situation

		document level (CPCNO)	family level (CPC)
INPI Brazil	BR9910073	H01R 12/71; H01R 13/6581	
SIPO	CN1306684	H01R 13/65	
EPO	EP1075714	H01R 12/71; H01R 13/6581	
UKIPO	GB2353908	H01R 12/73	
KIPO	KR20010071195	H01R 13/6581	
PRV	SE0003892	H01R 13/6581	
USPTO	US6206729	H01R 12/71; H01R 13/6581	

Future situation

document level (CPCNO)

family level (CPC)

INPI Brazil	BR9910073
SIPO	CN1306684
EPO	EP1075714
UKIPO	GB2353908
KIPO	KR20010071195
PRV	SE0003892
USPTO	US6206729

Future situation (cont'd)

- The data could be presented as follows:
  - H01R 12/71 (BR, EP, US)
  - H01R 13/6581 (EP, KR, SE, US) **GB**
  - ~~H01R 12/73 (GB)~~
  - H01R 13/65 (CN)

- EPO deletes H01R 12/71
- UKIPO deletes H01R 12/73 and gives H01R 13/6581 instead

The new picture will be as follows:

- H01R 12/71 (BR, US)
- H01R 13/6581 (EP, **GB**, KR, SE, US)
- H01R 13/65 (CN)

or

- H01R 12/71 (BR,US); H01R 13/6581 (EP, **GB**, KR, SE, US); H01R 13/65 (CN)

Advantages

- Each office (including the EPO and the USPTO) **owns only the symbols it allocates** to the families it classifies
- All offices are at **equal level of treatment** in terms of presentation of data
- **Simplified business rules** (cost decrease, less complex exchange)
- Offices can establish (e.g. automated) procedures to copy classification symbols from other offices to their own, in order to benefit from classification work of other offices
- It allows an easy comparison of classification practices for taking measures to harmonise these practices

Topics for discussion

- Presentation of symbols in CPC in the electronic layer and publications

- Whether CPC FIRST and LATER is still needed.
    - If so, then what are the business rules.

- Need stakeholders' views on FIRST and LATER

- INVENTION information (I) and ADDITIONAL information (A) WILL still remain in CPC.

Collaborative Environment (CE)

CE Services
High level scope

Directory Service

Revision Project Management Service

Revision project content management service

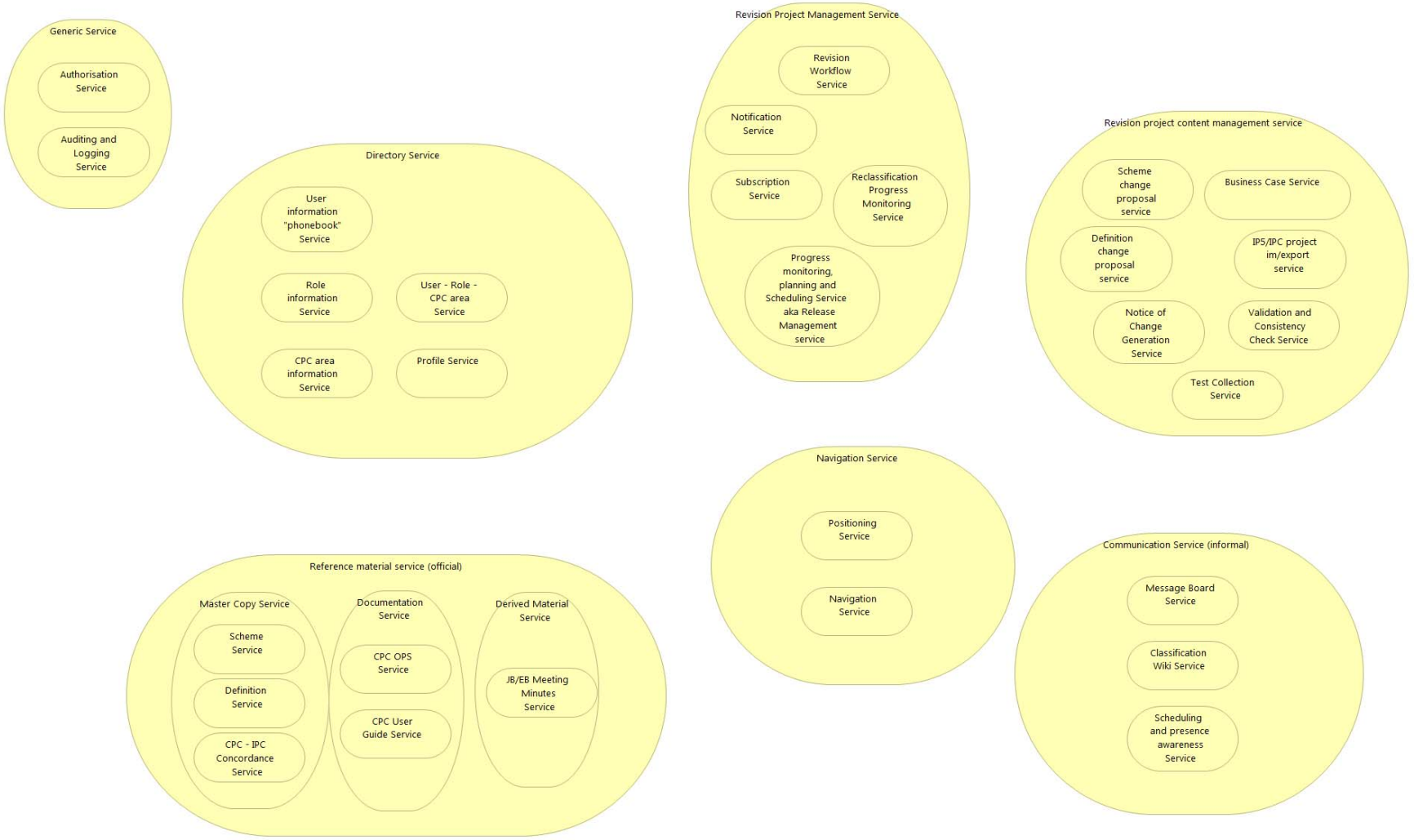
Reference material service (official)

Communication Service (informal)

Navigation Service

CE Services level 2

U4



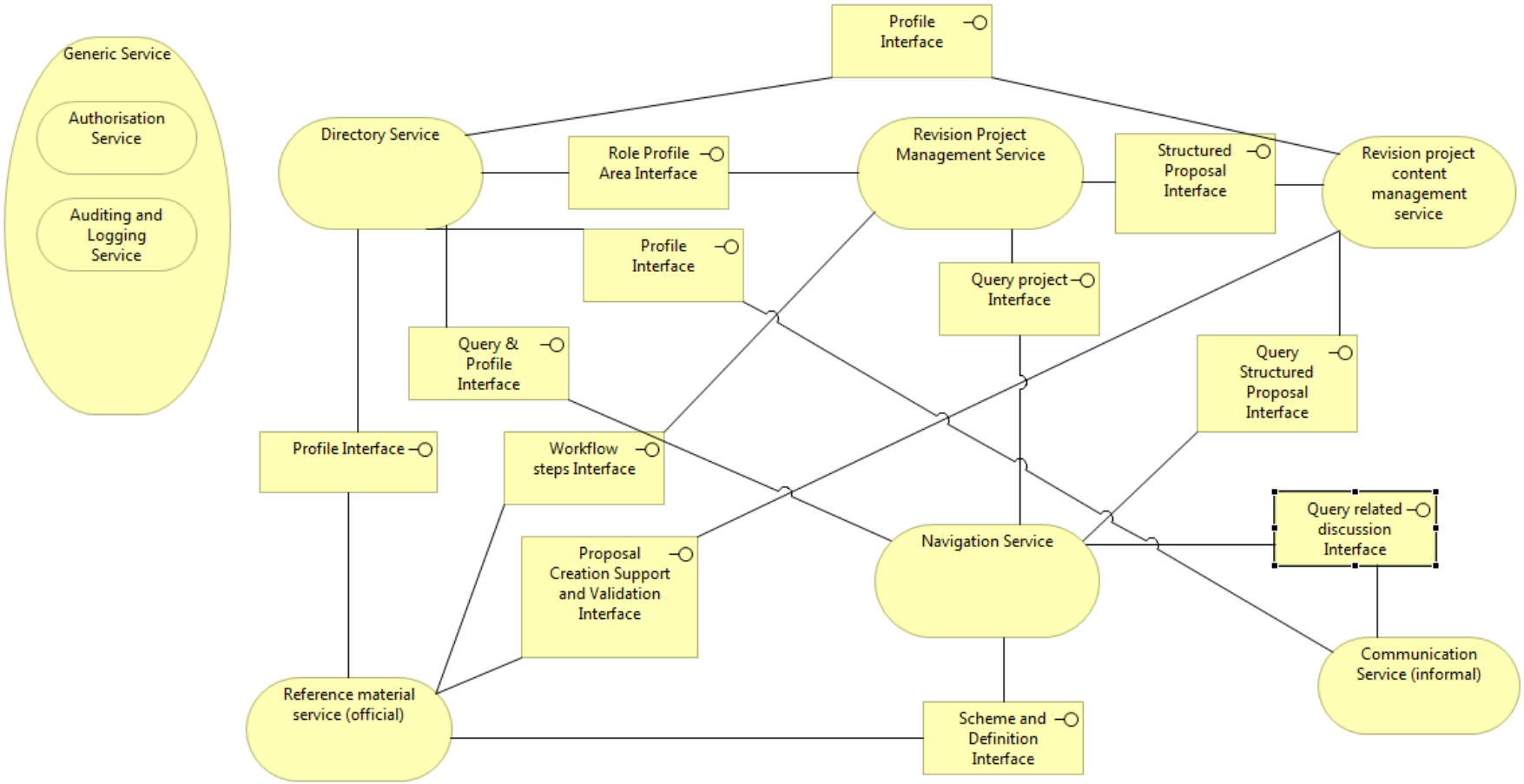
Slide 119

U4 Too much details - delete

Uspto1; 13-04-2015

CE Services and interfaces

U5



Slide 120

U5 Too much details.... should delete slide.
Uspto1; 13-04-2015

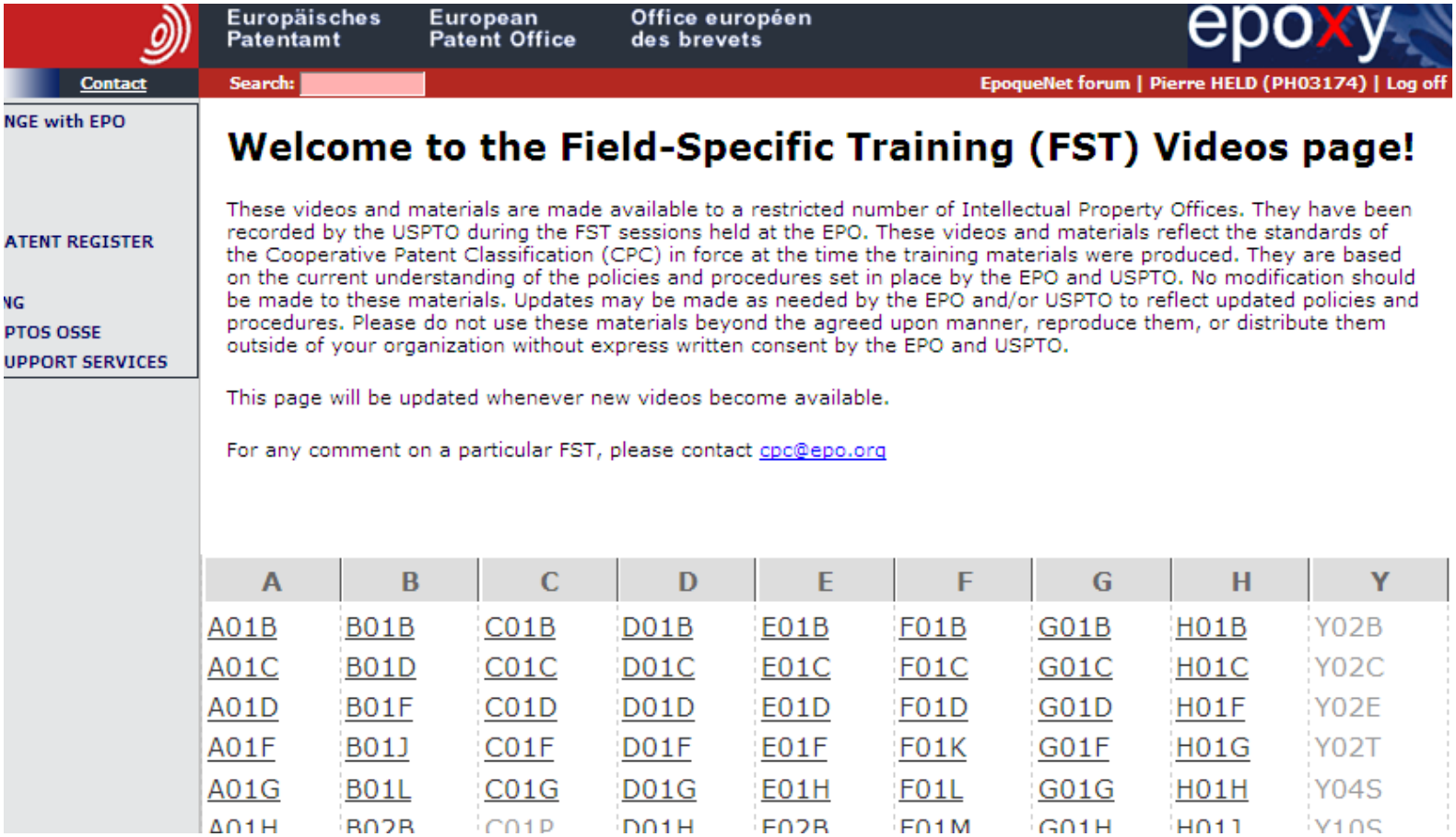
CPC Products and support

CPC training

- CPC **scheme** + **Notes** + **Warnings** + **Definitions**

- **Field-specific training** (FST) videos
  - For training patent examiners at patent offices classifying into CPC: go to Epoxy

    https://epoxy.epo.org/?d=cpcvideo&p=2324,106,2296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Office européen des brevets
epoxy
Contact
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EpoqueNet forum | Pierre HELD (PH03174) | Log off
NGE with EPO
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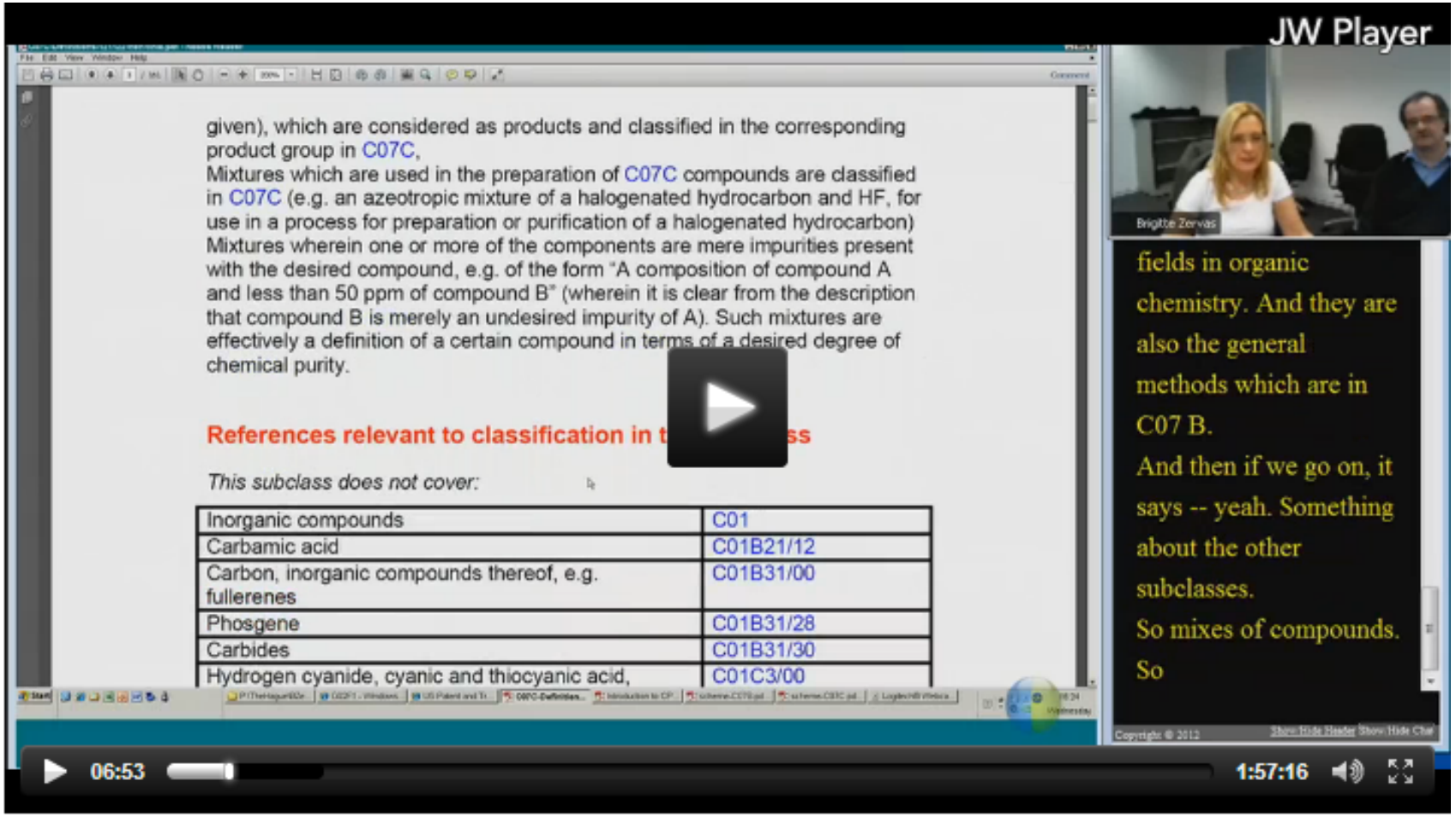
Welcome to the Field-Specific Training (FST) Videos page!
These videos and materials are made available to a restricted number of Intellectual Property Offices. They have been recorded by the USPTO during the FST sessions held at the EPO. These videos and materials reflect the standards of the Cooperative Patent Classification (CPC) in force at the time the training materials were produced. They are based on the current understanding of the policies and procedures set in place by the EPO and USPTO. No modification should be made to these materials. Updates may be made as needed by the EPO and/or USPTO to reflect updated policies and procedures. Please do not use these materials beyond the agreed upon manner, reproduce them, or distribute them outside of your organization without express written consent by the EPO and USPTO.
This page will be updated whenever new videos become available.
For any comment on a particular FST, please contact cpc@epo.org
A B C D E F G H Y
A01B B01B C01B D01B E01B F01B G01B H01B Y02B
A01C B01D C01C D01C E01C F01C G01C H01C Y02C
A01D B01F C01D D01D E01D F01D G01D H01F Y02E
A01F B01J C01F D01F E01F F01K G01F H01G Y02T
A01G B01L C01G D01G E01H F01L G01G H01H Y04S
A01H B02B C01P D01H F02B F01M G01H H011 Y10S

Screenshot of a FST session recording

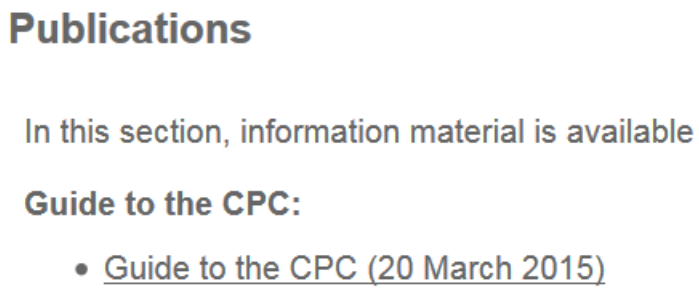


Download transcription (C05B1)

	B	C	D	E	F	G	H	Y

Guide to the CPC

- Available on www.cpcinfo.org since 20 March 2015 under Publications

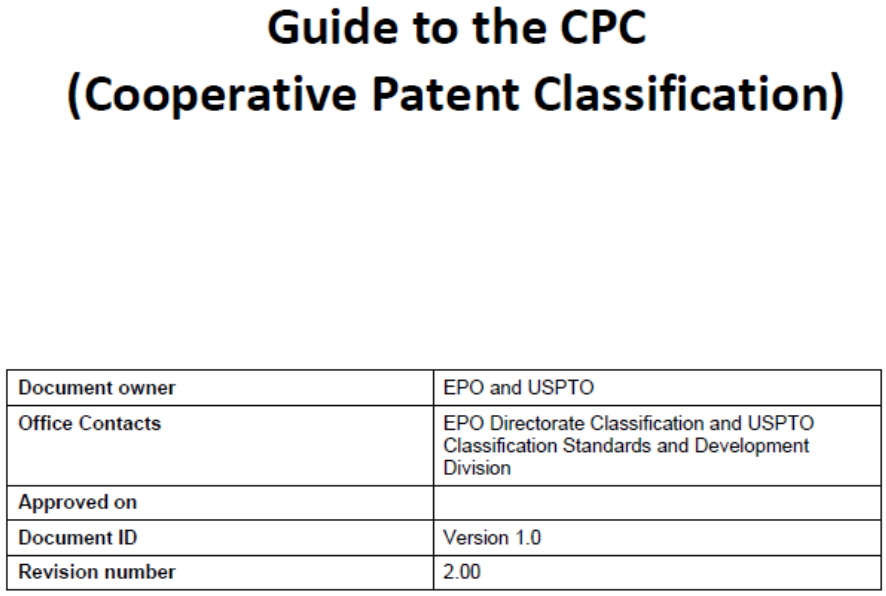


Publications

In this section, information material is available

Guide to the CPC:

- Guide to the CPC (20 March 2015)



Guide to the CPC
(Cooperative Patent Classification)

Document owner	EPO and USPTO
Office Contacts	EPO Directorate Classification and USPTO Classification Standards and Development Division
Approved on	
Document ID	Version 1.0
Revision number	2.00

List of ongoing revision projects

- Available on www.cpcinfo.org under CPC Revisions / Projects

Ongoing CPC Projects

The CPC areas currently undergoing maintenance (MP) or revision (RP) are listed in the table below together with the corresponding project number. Once finalized, the outcome of these projects will be summarized in a Notice of Change to be published one to two months before the corresponding changes are implemented in the CPC Scheme.

Project number	Status	CPC	Title
RP0033	active	G06F11/14	[Admin. Transfers] Digital data processing; Error detection or correction of the data by redundancy in operation

List of subclasses where 2000 series are used

- Available on www.cpcinfo.org under Publications

Subclasses where 2000 series symbols are used:

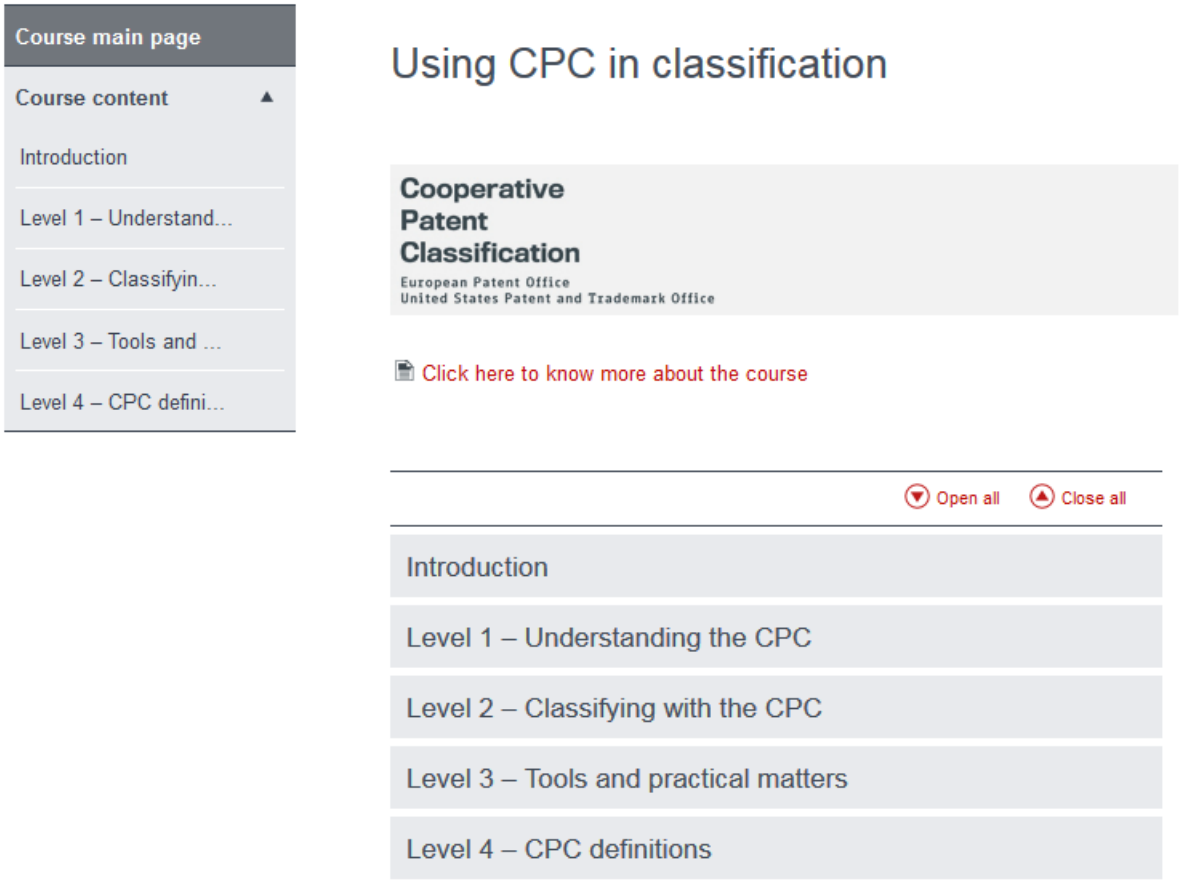
- List of subclasses where 2000 series symbols are used

CPC subclasses with indexing codes (2000 series)

A	B < B60	B ≥ B60	C	D	E	F	G	H
A01C	B01D	B60B	C01B	D01H	E01B	F01B	G01B	H01F
A01D	B01F	B60C	C01P	D03C	E01C	F01C	G01C	H01G
A01F	B01J	B60D	C02F	D03D	E01D	F01L	G01G	H01H
A01G	B01L	B60F	C03B	D03J	E01H	F01M	G01J	H01J
A01K	B02C	B60G	C03C	D05B	E02B	F01N	G01K	H01L
A01M	B03B	B60H	C04B	D05D	E02D	F01P	G01L	H01M
A01N	B03C	B60J	C07B	D06B	E03B	F02B	G01N	H01R
A22B	B03D	B60K	C07C	D06C	E03C	F02D	G01P	H01S
A22C	B04B	B60L	C07K	D06F	E03D	F02F	G01R	H02B
A23C	B04C	B60M	C08C	D06H	E03F	F02G	G01S	H02G
A23F	B05B	B60N	C08F	D06M	E04B	F02M	G01V	H02J
A23G	B05D	B60Q	C08G	D06N	E04C	F02N	G01W	H02K
A23N	B06B	B60R	C08J	D06P	E04D	F02P	G02B	H02M
A23P	B07B	B60S	C08K	D07B	E04F	F02W	G02C	H02P
A23V	B07C	B60T	C08L	D10B	E04G	F03G	G02F	H03B

CPC Training material (1)

- Available on www.cpcinfo.org under CPC Training
  - Updated training modules



CPC Training material (2)

- Available on www.cpcinfo.org under CPC Training
  - Combination sets training material

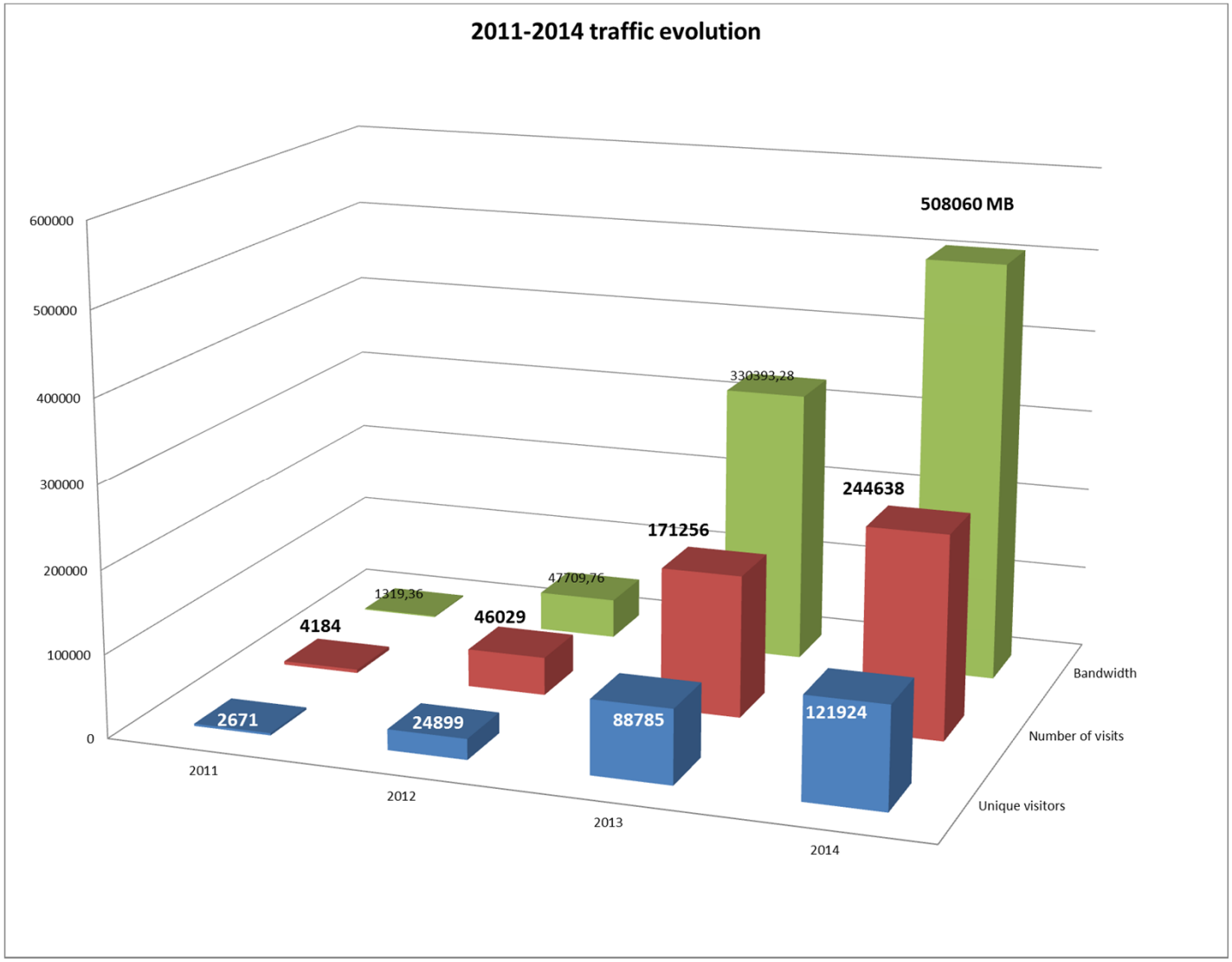
Training material on Combination Sets in the Polymers area

- Introduction
- General
- Tables for C08 and C09
- C08F
- C08G
- Acrylates Olefin Vinylic Graft C08F
- Composition Coating Adhesives C08L, C09D, C09J
- Various examples

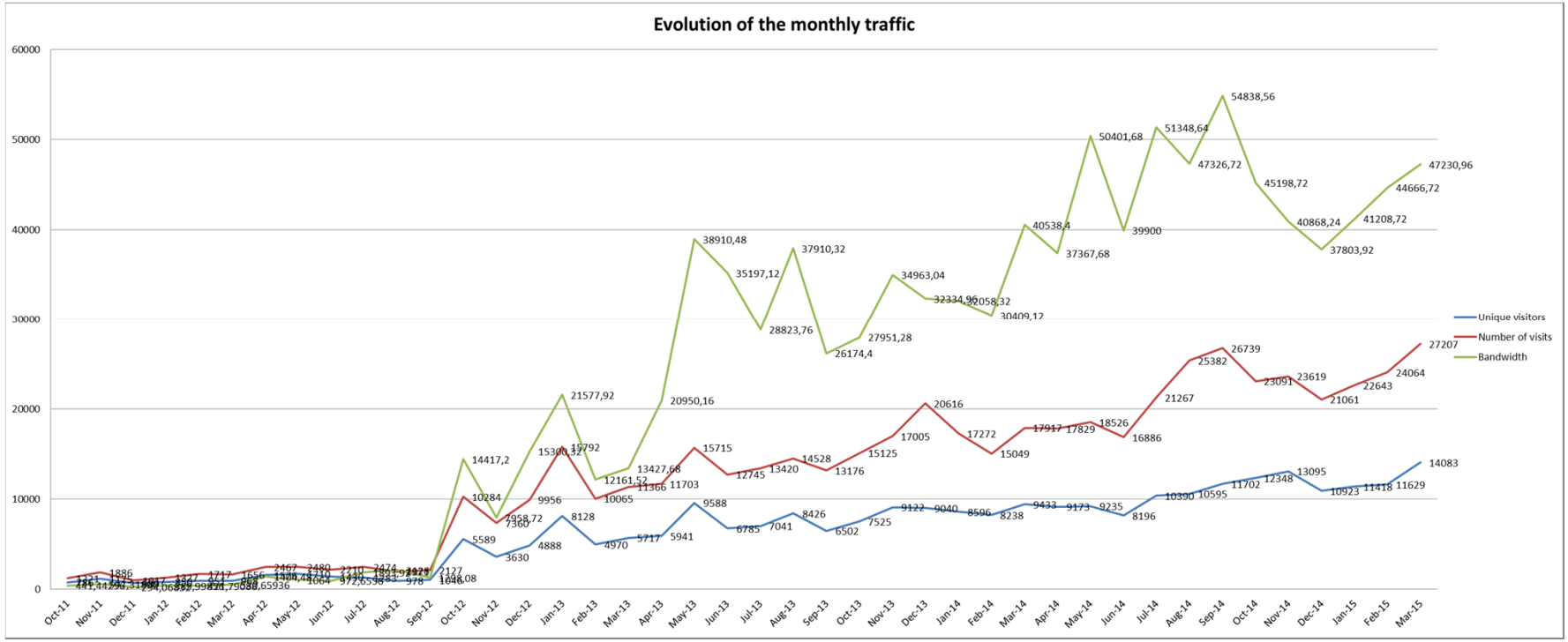
2014 Usage Statistics

www.cpcinfo.org

2011-2014 traffic evolution

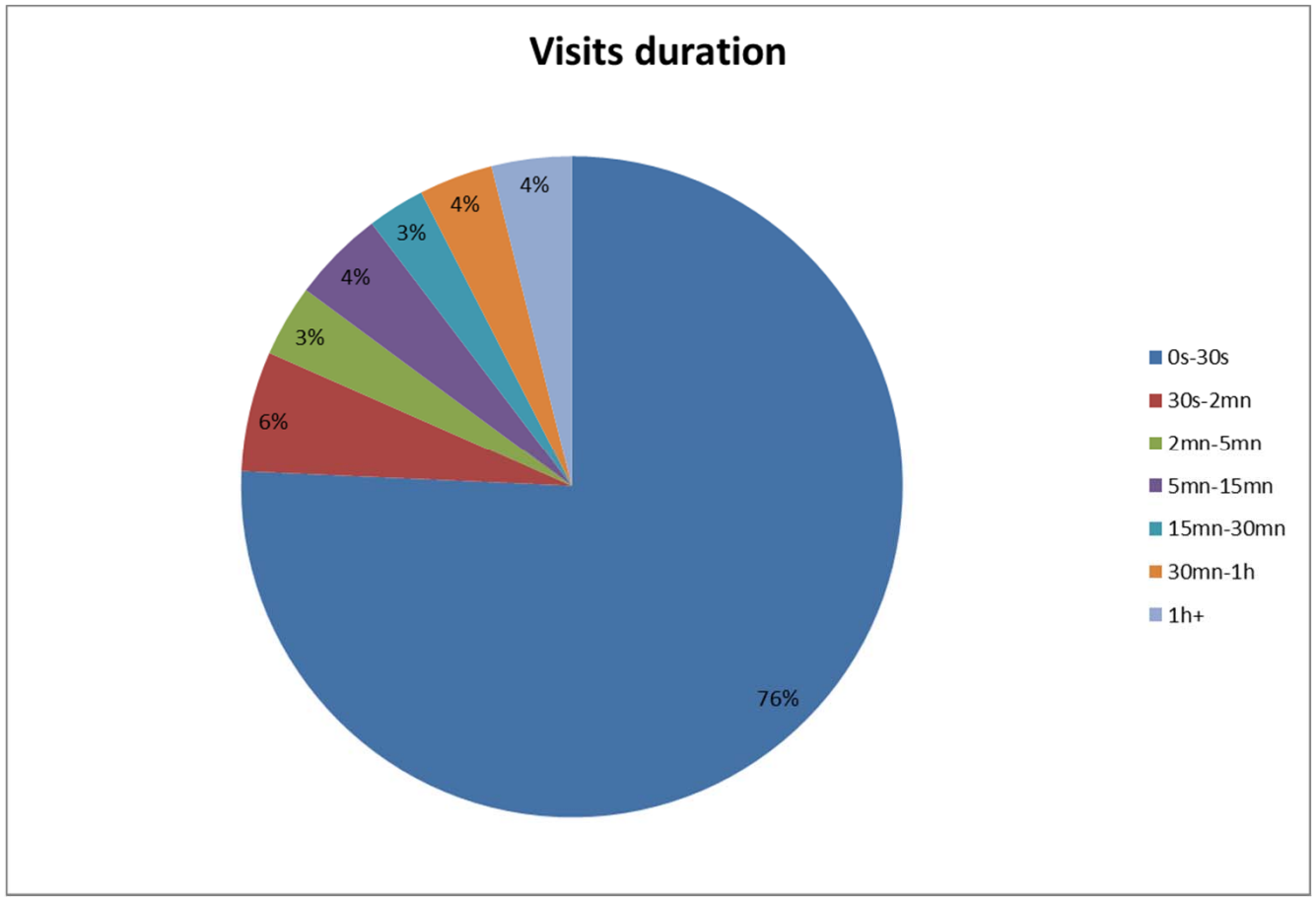


October 2011 – March 2015 monthly evolution



- Steady increase in number of visitors and bandwidth

Visits duration



- Average duration per visit was 329s in 2014

How is the site accessed to?

Connect to site from					
Origin		Pages	Percent	Hits	Percent
Direct address / Bookmarks		1774392	90.3 %	1800154	90.4 %
Links from a NewsGroup					
Links from an Internet Search Engine - Full list		108859	5.5 %	109049	5.4 %
- Google	104776 104966				
- Baidu	1281 1281				
- Sogou	778 778				
- Yahoo!	591 591				
- Yandex	586 586				
- Ask	564 564				
- Unknown search engines	160 160				
- MyWebSearch	36 36				
- AOL	33 33				
- WebCrawler	15 15				
- Others	39 39				
Links from an external page (other web sites except search engines) - Full list		80000	4 %	81617	4 %
- http://worldwide.espacenet.com/classification	41036 41036				
- http://www.uspto.gov/cgi-bin/exitconf/internet_exitconf.pl	7112 7112				
- http://ptoweb.uspto.gov/patents/cpc/tools.html	3067 3067				
- http://www.epo.org/searching/essentials/classification/cpc.html	1934 1934				
- http://worldwide.espacenet.com/searchResults	1746 1746				
- http://worldwide.espacenet.com/publicationDetails/biblio	1494 1494				
- http://www.bing.com/search	901 901				
- http://www.epo.org/news-issues/news/2011/20111025.html	852 852				
- http://worldwide.espacenet.com	799 806				
- http://www.epo.org/searching/subscription/raw/product-14-8.html	598 598				
- Others	20461 22071				
Unknown Origin		138	0 %	139	0 %

Thank you for your attention!

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