Cooperative Patent Classification (CPC)

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Christopher Kim, USPTO CPC Coordinator

IPC CE Meeting
Geneva, 27 February 2013
Outline

• CPC scheme
• CPC definitions
• CPC project timeline and milestones
• Quality assurance
• CPC viewer in Espacenet
• CPC Allocation Standard, Scheme services
• CPC Revision and Maintenance
CPC scheme — sections A-H

Classification (INV/ADD)

Main trunk

H01L21/285 . . .
H01L21/28504 . . .
H01L21/28508 . . .
H01L21/28512 . . .
...
H01L21/28524 . . .
H01L21/28528 . . .
H01L21/28532 . . .

Origin:
- IPC
- ECLA
- "mirrored" ICO

"further breakdown" ICO

Indexing (ADD)

2000-series

H01L2021/28528 . . .
H01L2021/285285 . . .
...
H01L2925/065 . . .
H01L2925/06504 . . .
H01L2925/06508 . . .

"orthogonal" ICO
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**
  – **Y10S**
## CPC scheme layout

<table>
<thead>
<tr>
<th>Sections A–H</th>
<th>Section Y</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main trunk</strong></td>
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</tr>
<tr>
<td>• ~160,000 symbols</td>
<td>• ~7,300 symbols</td>
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<tr>
<td>• invention or additional information</td>
<td>• includes former USPC XRACs and digests</td>
</tr>
<tr>
<td>• {...} used to distinguish CPC text from IPC one</td>
<td>• additional information only</td>
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<tr>
<td><strong>Indexing codes — 2000 series</strong></td>
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<td>• ~82,000 symbols</td>
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<tr>
<td>• former &quot;breakdown&quot; and &quot;orthogonal&quot; ICO</td>
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<tr>
<td>• IPC indexing codes</td>
<td></td>
</tr>
<tr>
<td>• additional information only</td>
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</tr>
</tbody>
</table>
CPC Definitions

• The CPC scheme will be supported by a set of instructions (in complement to the scheme) on how to search and classify in each specific technical area

• They have been designed along the lines of the IPC Definitions

• Since 1 October 2012, CPC Definitions are being published on a monthly basis as they get bilaterally agreed and will finally cover:
  – all subclasses
  – all main groups, and
  – some subgroups

• To date we count 164 published CPC definitions
• 221 this Friday 1 March 2013
CPC timeline

- Develop training
- Document classification practices (CPC Definitions)
- ECLA housekeeping
- Design IT
- Design collaborative environment

- IT implementation at USPTO and EPO
- Collaborative environment
- CPC Scheme launch version publicly available on 1 Oct 2012
- DOCDB back-file converted to CPC on 15 Nov 2012
- CPC in Espacenet - December 2012
- Prepare for launch of CPC

1 Jan 2013

- CPC used by EPO and USPTO
- Epoque (Net) and USPat and USApp CPC-ready
- Quality Assurance process in place
- Harmonize classification practices
- Joint CPC revisions
- CPC available for use by other IP offices

1 Apr 2013

Start of project discussions between EPO and USPTO

CPC Launch

No more ECLA-to-CPC mapping in revised areas
CPC - USPTO Implementation Timeline

1-Oct-12
CPC Preview
Schemes & Definitions

1-Jan-13
CPC Official Launch
CPC Transition Begins
CPC available for Search & Classification

2013 - 2015
CPC Transition
USPC used for Case Routing
USPC available for search and classification
CPC available for search and classification
CPC Scheme Revisions begin

1-Jan-15
Classification into USPC Ending

2012
Oct
FST Sessions

Nov
FST Sessions

Dec
FST Sessions

Jan
FST Sessions

Feb
FST Sessions

Mar
FST Sessions

2015
Apr

FST Training Sessions

Implementation Timeline
Quality Assurance (QA)

1. **Feedback** by Class-QNs through QA: sampling of documents and provision of written feedback

2. Possibility of **on-the-fly written feedback** by all classifiers

3. Creation of **statistical reports** per technical area by analysing the difference in symbols allocated by the two offices to the same families
Training

- e-Learning modules for USPTO staff

- Field-specific training (FST) provided by EPO examiners to their counterparts of the technical field

- Extensive use of CPC Definitions

- Feedback via the QA process

- Exchange visits and e-contacts between specialists in a field
Field Specific Training (FST) Sessions

USPTO QNs will be trained on
  o How to read CPC scheme/definition
    o How to search in CPC
    o How to classify in CPC
    o How to monitor quality
  o How to monitor quality
    o Develop revision projects

Create a library of CBTs
Demo

• http://worldwide.espacenet.com/

• http://www.uspto.gov/web/patents/classification/index.htm
**Key features scheme browser**

### CPC classification browser

**Search functionality**

- **Radio buttons:**
  - Toggle IPC vs CPC
  - Show notes & warnings
  - Toggle dot/tree view

**Sub-section text**

**Guidance headings**

**Expand main groups where possible**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Classification and description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01</td>
<td>AGRICULTURAL, FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING</td>
</tr>
<tr>
<td>A01B</td>
<td>SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (machines or covering furrows or holes for sowing, planting, or managing A91D;00; soil working for engineering purposes A91E;02; planters A91E;21; measuring areas for agricultural purposes A91F;00))</td>
</tr>
<tr>
<td>A01B 1400+*</td>
<td>Hand tools (edge trimmers for lawns A01G3090; (machines for working soil A01G3550; making hand tools B21G))</td>
</tr>
<tr>
<td>A01B 3400+*</td>
<td>Ploughs with fixed plough-shares</td>
</tr>
<tr>
<td>A01B 5400+*</td>
<td>Ploughs with rolling non-driven tools, e.g. discs (with rotary driven tools A01B5500)</td>
</tr>
<tr>
<td>A01B 7400</td>
<td>Disc-like soil-working implements usable either as ploughs or as harrowers, or the like</td>
</tr>
<tr>
<td>A01B 9400+*</td>
<td>Ploughs with rotary driven tools (shovel implements with rotary driven tools A01B93300)</td>
</tr>
<tr>
<td>A01B 1340</td>
<td>Ploughs with oscillating, digging or planing tools (closed or not)</td>
</tr>
<tr>
<td>A01B 1540+*</td>
<td>Ploughs or-like machines for special purposes (for drainage A02B11102; ditch diggers, mound ploughs, furrow ploughs, ploughs for land or marsh reclamation (machines for harvesting meanders A02B4500; making furrows A01C500; dredging machines in general E01D))</td>
</tr>
<tr>
<td>A01B 1302</td>
<td>* for making or working ridges, e.g. with symmetrically arranged mouldboards, (e.g. ridging plough)</td>
</tr>
<tr>
<td>A01B 13025</td>
<td>** (with passively driven rotating disc-like elements for forming the ridge)</td>
</tr>
<tr>
<td>A01B 1304</td>
<td>* for working in vineyards, orchards, or the like</td>
</tr>
<tr>
<td>A01B 1306</td>
<td>** Arrangements for preventing damage to the vines, or the like, (e.g. hydraulics (machines specially adapted for working in vineyards A01B3340))</td>
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<tr>
<td>A01B 1308</td>
<td>* for working soil</td>
</tr>
<tr>
<td>A01B 1310</td>
<td>* Special implements for lifting subsoil layers</td>
</tr>
<tr>
<td>A01B 1312</td>
<td>** ** Wars for distributing the layers on the surface</td>
</tr>
<tr>
<td>A01B 1314</td>
<td>* for working soil in two or more layers</td>
</tr>
<tr>
<td>A01B 1316</td>
<td>* Machines for combating erosion, e.g. basin-diggers, furrow-diggers</td>
</tr>
<tr>
<td>A01B 1500+*</td>
<td>Elements, tools, or details of ploughs</td>
</tr>
</tbody>
</table>
### Key features CPC search

#### CPC classification browser

**Symbol** | **Classification and description**
---|---
[ ] A01M1/00 | Stationary means for catching or killing insects ([or repelling A01M1/00])
[ ] H01L27/00 | Devices consisting of a plurality of semiconductor or other solid state components formed in or on a common substrate (processes of apparatus specially adapted for the manufacture or treatment thereof or of parts thereof H01L1/00 to H01L5/00: details thereof H01L5/00 to H01L8/00: assembly consisting of a plurality of individual solid state devices H01L25/00: assembly of electrical components in general H05K)
[ ] H01L21/00 | Processes or apparatus adapted for the manufacture or treatment of semiconductor or solid state devices or of parts thereof ([processes or apparatus peculiar to the manufacture or treatment of devices provided for in groups H01L1/00 to H01L5/00: details thereof H01L5/00 to H01L8/00: assembly consisting of a plurality of individual solid state devices H01L25/00: assembly of electrical components in general H05K)

**Selected classifications**

- A01M 23/02
- A01M 23/06
- A01M 23/08
- A01M 23/10
- A01M 23/12
- A01M 23/14
- A01M 23/16
- A01M 23/20
- A01M 23/22
- A01M 23/24
- A01M 23/26
- A01M 23/28
- A01M 23/30

**Selected examples:**

- with sticky surfaces (for insects A01M23/02)
- with sticking platforms
- with locking mechanism for the sticking platform
- with approaches permitting entry only
- with rotating cylinders or tumblers
- with devices for throwing the animal to a collecting chamber
- other traps automatically reset
- the traps
- Jaw traps (Spring traps, e.g.)
- (Auxiliary devices for spring traps, e.g. releasing systems)
- of the double-jaw or pincer type
- (of the pincer type)
- Jaw trap setting-devices
- Break-back traps, (i.e. mouse-trap type)
Links to Definitions and Scheme

- Icons to open PDF files
- Definitions and Scheme

Future version of OPS will have Definitions XML (and concordance list XML). How these will be used and incorporated into the browser application will be determined in 2013.
Access Classification Information by Symbol

Select Classification System:  CPC  USPC

Enter Classification symbol:
e.g., B02C 19/0081 or D06P 1/5254

Select output format:  HTML  PDF

Select Content:
- Scheme
- Definitions

Clear  Submit
USPTO Tools

Patent Classification Home » CPC Sections » CPC Section A

<table>
<thead>
<tr>
<th>Main</th>
<th>CPC Sections</th>
<th>USPC Class Numbers &amp; Titles</th>
<th>USPC Class Numbers</th>
<th>Classification Search Page</th>
<th>Contacts</th>
<th>Help</th>
</tr>
</thead>
</table>

Outline: ON  Indent Level: Sub-sections, Classes, Subclasses  Curly Brackets (indicating CPC extensions to IPC): ON

Printable version [PDF]

CPC

COOPERATIVE PATENT CLASSIFICATION

A

HUMAN NECESSITIES

SUBSECTION:

Agriculture

A01

AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING

A01B

SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting, or manuring A01C 5/00; soil working for engineering purposes E01, E02, E21; (measuring areas for agricultural purposes G01B))

WARNING

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

...
1. **Select what you want...**

- Class Schedule (HTML)
- Class Schedule (PDF)
- Class Definition (HTML)
- Class Definition (PDF)
- US-to-IPC8 Concordance (HTML)
- US-to-IPC8 Concordance (PDF)
- US-to-Locarno Concordance

2. **Select a class or Search within this page with your browser.**

<table>
<thead>
<tr>
<th>Class Number and Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>002 Apparel</td>
</tr>
<tr>
<td>004 Baths, closets, sinks, and spittoons</td>
</tr>
<tr>
<td>005 Beds</td>
</tr>
<tr>
<td>007 Compound tools</td>
</tr>
<tr>
<td>008 Bleaching and dyeing; fluid treatment and chemical modification of textiles and</td>
</tr>
</tbody>
</table>
Access Classification Information by Symbol

Select Classification System:  ○ CPC ○ USPC
Enter Classification symbol:  
  e.g., B02C 19/0081 or D06P 1/5264
Select output format:  ○ HTML ○ PDF
Select Content:  
  Scheme Definitions

Clear  Submit

Access Classification Information by Symbol

Select Classification System:  ○ CPC ○ USPC
Enter Classification symbol:  
  e.g., 482/1 or D14/314
Select output format:  ○ HTML ○ PDF
Select Content:  
  Schedule Definitions
  Statistical Mapping from USPC to CPC
  USPC to IPC Concordance
  USPC to LOCARNO (for Designs)

Clear  Submit
### Statistical mapping of USPC to CPC for Class 705

**View Most statistically relevant CPC Subclasses**

<table>
<thead>
<tr>
<th>USPC Subclass</th>
<th>Most statistically relevant CPC groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>705/50</td>
<td>G 06Q 20/382, G 05G 20/3674, G 06Q 30/06, G 06F 21/10, G 06Q 30/02</td>
</tr>
<tr>
<td>705/51</td>
<td>G 06F 21/10, G 05Q 30/06, G 06F 2211/007, H 04L 53/0428, H 04L 2463/101</td>
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<tr>
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<td>G 06F 21/10, G 11B 20/00086, G 06F 2221/0737 more...</td>
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<tr>
<td>705/59</td>
<td>G 06F 21/10, G 07B 17/00733, G 07B 17/0008, G 07B 2017/00201 more...</td>
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**Most statistically relevant CPC Subclasses**

G 06Q, H 04N, G 11B, G 06F, G 07B, A 61B, G 01G
# CPC allocation standard - based on WIPO ST.8

<table>
<thead>
<tr>
<th>Position(s)</th>
<th>Content</th>
<th>Values</th>
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<tbody>
<tr>
<td>1</td>
<td>Section</td>
<td>A,...,H, Y</td>
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<tr>
<td>2,3</td>
<td>Class</td>
<td>01,...,99</td>
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<tr>
<td>4</td>
<td>Subclass</td>
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<tr>
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<td>For future use</td>
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<td>20 to 27</td>
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<td>28</td>
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*Version 1.0*
## CPC Allocation standard

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</tbody>
</table>
CPC Scheme Services as EPO’s OPS Services

1. CPC Validation service

2. Classification Mapping services
   - ECLA to CPC concordance service
   - CPC to ECLA concordance service
   - CPC to IPC concordance service
1. CPC validation service

• The classification validation service checks the **format** and **existence** of the **CPC and ECLA classifications**

• The service will accept **only 'full' classification symbols**, starting from main group, e.g. A01B1/00.

• The **response** for a requested symbol is indicated by standard HTTP response codes

• If the symbol is valid, a standard HTTP 200 OK response is returned.

• In the case the symbol is not being found in the scheme, a standard HTTP 404 Not Found error response is returned.

• In the case of the symbol format being invalid, a standard HTTP 400 Bad Request error response is returned.

• In the case of any other system error, a standard HTTP 500 System Error response is returned.
2. Classification mapping service

- The classification mapping service provides access to internal classification conversion routine for external users.

- The following directions of conversions are supported by OPS:
  - ECLA > CPC
  - CPC > ECLA
  - CPC Add only > ICO
  - CPC > IPC

- The service accepts only 'full' classification symbols, starting from main group level, e.g. A01B1/00.

- The CPC>ECLA transformation ambiguous, therefore optional request parameter _?additional_ to specify that additional classification symbol is requested. The default request is invention.
Open Patent Services (OPS)

Designated for automated queries, our Open Patent Services (OPS) deliver production-stable and high-quality raw patent data 24 hours a day, seven days a week.

With OPS you can:
- access the EPO’s worldwide patent data
- modify your own software applications
- develop tailor-made clients
- integrate your own data with data available via OPS.

To use OPS, you need to be familiar with RESTful web services.

OPS RESTful:

<table>
<thead>
<tr>
<th>Title</th>
<th>Format</th>
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</thead>
<tbody>
<tr>
<td>REST services WADL descriptor</td>
<td>WADL</td>
</tr>
<tr>
<td>OPS version 3.0 documentation -  version 1.1</td>
<td>PDF</td>
</tr>
<tr>
<td>Open Patent Services input and output XML schema</td>
<td>XSD</td>
</tr>
</tbody>
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OPS RESTful documentation
CPC
Revision and Maintenance process

Amending the CPC scheme and/or definition, and reclassifying the corresponding documentation
• From 1 January 2013 onwards CPC **jointly** administered by the EPO and USPTO

=> **Joint decisions** to amend the CPC scheme and definitions

• Changes through **maintenance** and **revision projects**
• **Share reclassification** resources when projects enter reclassification phase:
  • 50%-50% overall
  • in some projects flexibility to divide the work on a different share

• **Monthly updates** possible for CPC scheme and definitions

• **Support** will be provided:
  – Revision Concordance List (RCL)
  – Publication of changes 2 months before they enter into force
Thank you for your attention!

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