



Cooperative Patent Classification (CPC)

IPC Committee of Experts





CPC Implementation Group

February 2012

F16G5/14 with reinforcement books to the plant of the pla





What is CPC?

- USPTO/EPO agreed 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."

October 25, 2010

David J. Kappos

Benoît Battistelli





Transition from ECLA to CPC

- CPC will include:
 - ECLA/ICO subdivisions
 - Keywords first to ECLA/ICO and then to CPC
 - USPTO special areas, e.g. business methods, and special collections
 - Hierarchical structure of ECLA (dots)
 - Capability to expand (for future revisions)
 - CPC Definitions at least to the main group level
 - Allocations standard compatible with WIPO's
 Standard 8





Transition from ECLA to CPC

- Conversion algorithm from ECLA to CPC symbols:
 CPC will use IPC type numbering; i.e. CPC symbols will not have any letter after the "/", e.g.
 H01I 21/02A1H will become H01I 21/0217
- Invention and Additional information will be classified using CPC symbols





Conversion Algorithm ECLA to CPC

 IPC part remains visible: subdivision takes place while keeping the last digit of the corresponding IPC symbol

	_
IPC	
H01L21/027	
H01121/033	

ECLA
H01L21/027
H01L21/027B
H01L21/027B2
H01L21/027B6
H01L21/027B6B
H01L21/027B6B2
H01L21/027B6B4
H01L21/027B6C
H01L21/027B6D
H01L21/027B6E
H01L21/033

CPC
H01L21/027
H01L21/02709
H01L21/ 027 18
H01L21/ 027 27
H01L21/02736
H01L21/ 027 45
H01L21/ 027 54
H01L21/ 027 63
H01L21/ 027 72
H01L21/ 027 81
H01L21/033

ICOs will be also included in CPC scheme





Conversion to CPC

Include IPC groups in CPC

IPC

 \rightarrow CPC

H01L21/285

H01L21/285

H01L21/288

H01L21/288





Conversion to CPC

Include ECLA groups in CPC

ECLA

 \rightarrow CPC

H01L21/285

H01L21/285B

H01L21/285B4

H01L21/285B4A

H01L21/285B4C

H01L21/285B4F

H01L21/285B4H

H01L21/285B6

H01L21/285B6B

H01L21/285B6C

H01L21/288

H01L21/285

H01L21/288





Conversion to CPC

Include mirrored (& breakdowns) ICO groups in CPC Convert ICO Section symbol **T** to ECLA Section symbol **H**

ICO FA CPC **CPC H01L21/285** H01L21/285 H01L21/285 H01L21/285B H01L21/285<mark>04</mark> H01L21/285B Mirrored ICO H01L21/285B4 H01L21/285B4 H01L21/285<mark>08</mark> Renumber **H01L21/28512** H01L21/285B4A H01L21/285B4A scheme H01L21/285B4C H01L21/285B4C H01L21/28516 Breakdown F01L21/285B4D H01L21/2852 ICO **H01L21/285B4F** H01L21/285B4F H01L21/28524 H01L21/285B4H H01L21/285B4H H01L21/28528 **H01L21/285B6** H01L21/285B6 H01L21/28532 Mirrored H01L21/285B6B ICO H01L21/285B6B H01L21/28536 F01L21/285B6C H01L21/285B6C H01L21/2854 **H01L21/288** H01L21/288 H01L21/288





CPC

Conversion to CPC

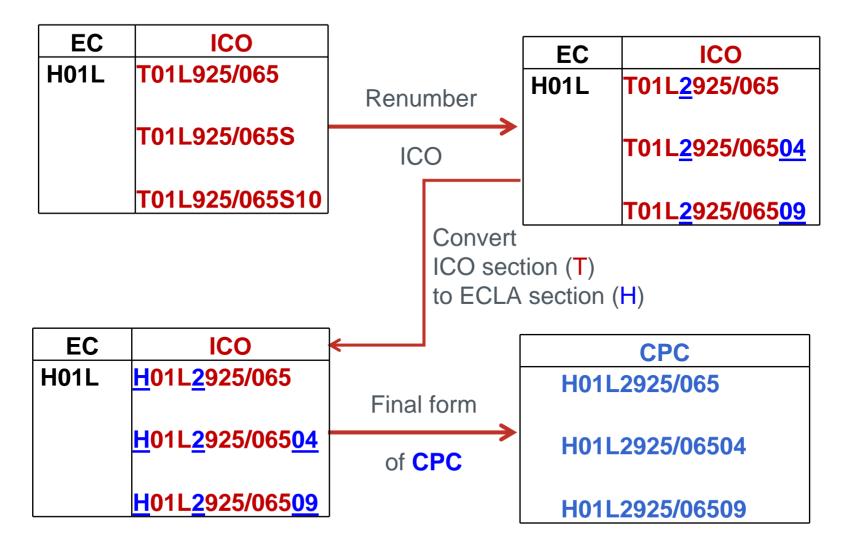
 IPC part after the "/" remains visible: subdivision takes place while keeping the last digit of the corresponding IPC symbol

> H01L21/285 H01L21/285 H01L2/285B H01L21/28504 H01L21/28508 H01L21/285B4 Renumber **H01L21/28512** H01L21/285B4A scheme H01L21/28516 H01L21/285B4C H01L21/285B4D H01L21/2852 H01L21/28524 H01L21/285B4F H01L21/28528 H01L21/285B4H H01L21/28532 H01L21/285B6 H01L21/28536 H01L21/285B6B H01L21/285B6C H01L21/2854 H01L21/288 H01L21/288





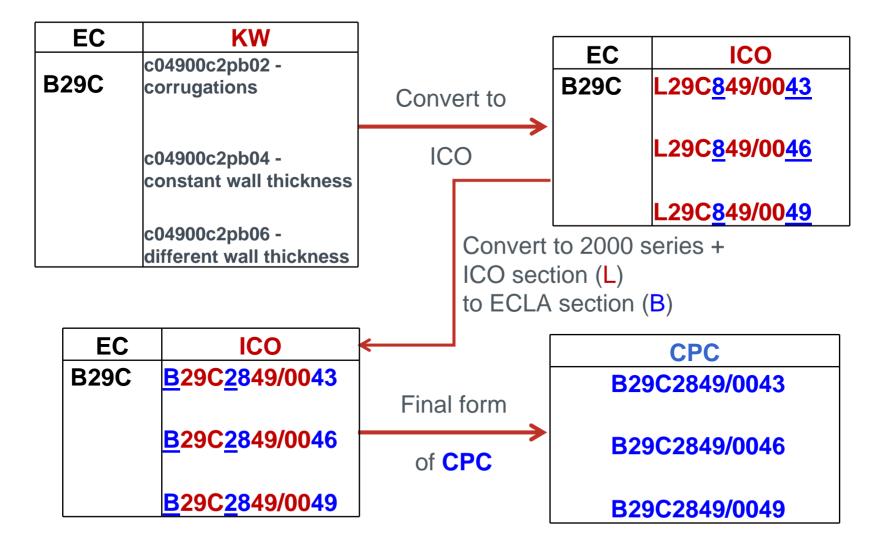
ICO codes – orthogonal → CPC 2000 series







Keywords → **CPC** 2000 series







Final CPC Scheme

H011 21/285 H01I 21/28504 H01I 21/28508 H01I 21/28512 H01L21/28516 H01L21/2852 Classification H01L21/28524 H01I 21/28528 H01L21/28532 H01I 21/28536 H01L21/2854 H01L21/288

Origin:

- IPC
- ECLA
- mirrored ICO
- breakdowns of mirrored ICO

Indexing

H01L2925/065
H01L2925/06504
H01L2925/06508

Origin:

- orthogonal ICO
- ICO originating from KW



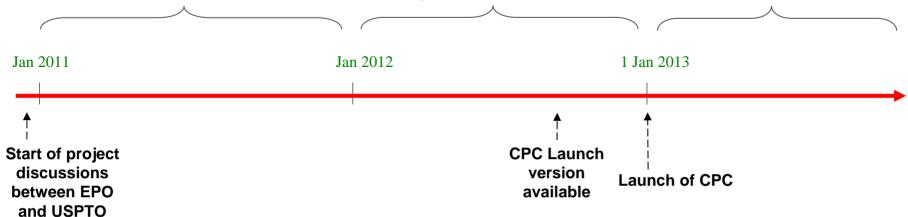


Key CPC Transition Activities

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

- Conduct training.
- IT implementation at USPTO and EPO
- Collaborative environment
- CPC Scheme launch version publically available on 1 October 2012
- Convert EPO backfile to CPC
- Prepare for launch of the CPC

- Quality Assurance process in place
- CPC used by EPO and USPTO
- Harmonized classification practices
- Joint CPC revisions
- CPC available for use by other IP offices







Thank you for your attention!

www.cpcinfo.org