

# Cooperative Patent Classification (CPC)

TC 3700 & 1600 Customer Partnership January 2013



United States Patent and Trademark Office, Cooperative Patent Classification (CPC)

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## Objectives

- Part I: Brief CPC Overview
- Part II: General CPC Update
- Part II: External Classification and Search Products
- Part III: External Training Initiatives

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- Part III: External Training Initiatives

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## General Features of CPC

- CPC is a joint USPTO/EPO classification system
  - ➔ CPC is **based on the IPC** and **follows IPC classification rules and practices** except as noted otherwise in the CPC Definitions
- CPC provides the examination corps and stakeholders with:
  - ↪ International classification system based on International Patent Classification (IPC) standards
  - ↪ More comprehensive access to prior art
  - ↪ A classification scheme/system that is adaptive and more actively maintained
  - ↪ A single classification symbol set for all USPTO and EPO documents

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## CPC Logical/Hierarchical Structure

### Hierarchical Top Levels: 9 Sections

HUMAN NECESSITIES	A
PERFORMING OPERATIONS; TRANSPORTING	B
CHEMISTRY; METALLURGY	C
TEXTILES; PAPER	D
FIXED CONSTRUCTIONS	E
MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS	F
PHYSICS	G
ELECTRICITY	H
GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-OVER TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS [N0403] [M1103] [C1207]	Y

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## Format of CPC Symbols

### A61B 5/0408

- ▶ complete **group symbol**; consists of different components

A	Section (A, B, ... H)
A61	Class (any 2 digits)
A61B	Subclass (any letter)
A61B 5/0000	. Main Group
A23G 5/0408	.. Subgroup

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## General CPC Update

- CPC launched January 2, 2013
- What does it mean for EPO?
  - Switch classification from ECLA to CPC
  - Member States have also switched
- What does it mean for USPTO?
  - Two year transitional period

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## Objectives

Part I: Brief CPC Overview

Part II: General CPC Update

Part II: External Classification and Search Products

i. Classification Search by Scheme & Definition

ii. PubEast

Part III: External Training Initiatives

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## Classification Search by Scheme & Definition

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# Classification/Search Product – Lookup USPC to CPC Statistical Mapping

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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

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- Terms of Use
- Security
- Emergencies/Security Alerts
- Information Quality Guidelines
- Federal Activities Inventory System (FAIS) Act
- Notification and Federal Employee Antidiscrimination and Retaliation (NFEA) Act
- Budget & Performance
- Freedom of Information Act (FOIA)
- Department of Commerce
- NotFAR Act Report
- Revolutions.gov
- STOPALIAS.gov
- Department of Commerce
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# Classification/Search Product: Sample Mapping

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Statistical mapping of USPC to CPC for Class 600

Printable Version [PDF] View Most statistically relevant CPC Subclasses

USPC Subclass	Most statistically relevant CPC groups		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup> - 5 <sup>th</sup>
600/300	A 61B 5/0002	G 06F 19/3418	G 06F 19/322 more...
600/301	A 61B 5/0002	G 06F 19/3406	A 61B 5/0205 more...
600/302	A 61B 5/0073	A 61B 5/0031	A 61B 5/0002 more...
600/303	G 01N 2/30001	A 61B 5/4011	A 61N 1/0031 more...
600/304	A 61B 5/4356	A 61B 5/0033	A 61B 5/1076 more...
600/305	A 61B 5/04282	A 61B 5/0215	A 61B 5/0424
600/306	A 61B 5/0059	A 61B 5/441	A 61B 5/442 more...
600/307	A 61B 5/4266	A 61B 3/101	A 61B 5/0531 more...
600/308	G 01N 27/07	A 61B 5/026	A 61B 5/03 more...
600/371	A 61B 5/02042	A 61B 10/0038	A 61M 25/0108 more...
600/372	A 61B 5/0408	A 61B 5/0405	A 61B 5/0478 more...
600/373	A 61B 18/1432	A 61B 5/0422	A 61B 5/0482 more...
600/374	A 61B 5/0422	A 61B 18/1492	A 61B 25/62/0209 more...
600/375	A 61N 1/0056	A 61N 1/0073	A 61B 5/042 more...
600/376	A 61B 5/4362	A 61B 5/0448	A 61B 5/0444 more...
600/377	A 61N 1/0056	A 61B 5/04001	A 61B 5/042 more...
600/378	A 61B 5/04001	A 61N 1/0029	A 61N 1/0031 more...
600/379	A 61B 5/6817	A 61B 5/042	A 61N 1/0041 more...
600/380	A 61B 5/0421	A 61B 1/0223	A 61B 5/0853 more...
600/381	A 61B 5/0422	A 61B 25/62/0209	A 61B 25/62/043 more...
600/382	A 61B 5/0405	A 61B 5/6831	A 61B 5/0005 more...

Most statistically relevant CPC Subclasses  
A 61B, G 01N, G 01R, A 61M, G 01S, G 01J, A 61N, A 61C, B 64D, A 61G, A 61F, H 04R, A 61H, B 01L, A 61D, A 61L, H 04N

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# Top of CPC Subclass A61B Scheme

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Patent Classification Home > CPC Sections > CPC Section A > CPC Subclass A61B

Main | CPC Sections | USPC Class Numbers & Titles | USPC Class Numbers | Classification Search Page | Contacts | Help

Outline  ON | Intent Level  Guide Headings |  Maingroups | 1 | 2 | 3 | 4 | 5 | 6 |  Expand All

Color  ON | Curly Brackets (indicating CPC extensions to IPC)  ON

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**CPC**

**A61B**

**COOPERATIVE PATENT CLASSIFICATION**

**DIAGNOSIS; SURGERY; IDENTIFICATION** (analysing biological material G01N, e.g. G01N 33/46, obtaining records using waves other than optical waves, in general G03B 42/00)

**NOTE**

This subclass covers instruments, implements and processes for diagnostic, surgical and person-identification purposes, including obstetrics, instruments for cutting corns, vaccination instruments, finger-printing, psycho-physical tests.

**WARNING**

[C2012.05] The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups.

A61B 5/0295 covered by A61B 5/026 A61B 5/1455 covered by A61B5/00H4 A61B 5/1459 covered by A61B5/00H4B A61B 5/1464 covered by A61B5/00H4F A61B 5/1468 covered by A61B5/00H2 A61B 5/1473 covered by A61B5/00H2B A61B 5/1477 covered by A61B5/00H2D A61B 5/1482 covered by A61B5/00H2F A61B 5/151 covered by A61B 5/1411 A61B 5/153 covered by A61B 5/1405 A61B 5/154 covered by A61B 5/143B A61B 5/157 covered by A61B 5/00 and s. gr. A61B17/03 covered by A61B 17/00 A61B17/125 covered by A61B 17/122 A61B17/138 covered by A61B 17/12 A61B17/76 covered by A61B 17/744 A61B17/78 covered by A61B 17/744 A61B17/90 covered by A61B 17/88 A61B17/94 covered by A61B17/28E

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# CPC scheme page at group A61B 5/0448

<input type="checkbox"/>	A61B 5/04284	...	[Capacitive or ionised electrodes, e.g. MOSFET]
<input type="checkbox"/>	A61B 5/04286	...	[Patent cord assembly, e.g. cable harness]
<input type="checkbox"/>	A61B 5/04288	...	[Switching circuits]
<input checked="" type="checkbox"/>	A61B 5/0432	...	Recording apparatus specially adapted therefor
<input type="checkbox"/>	A61B 5/04325	...	[using integrated circuit memory devices]
<input checked="" type="checkbox"/>	A61B 5/0436	...	Magnetic recording apparatus
<input type="checkbox"/>	A61B 5/04365	...	[Playback at speeds other than the recording speed]
<input type="checkbox"/>	A61B 5/044	...	Displays specially adapted therefor [(arrangements for displaying electric variables or waveforms, e.g. cathode-ray oscilloscopes, G01R 13/00)]
<input checked="" type="checkbox"/>	A61B 5/0444	...	Foetal cardiology
<input checked="" type="checkbox"/>	A61B 5/0448	...	Electrodes specially adapted therefor, e.g. scalp electrodes
<input type="checkbox"/>	A61B 5/04485	...	[attached by means of suction]
<input checked="" type="checkbox"/>	A61B 5/0452	...	Detecting specific parameters of the electrocardiograph cycle
<input type="checkbox"/>	A61B 5/04525	...	[by template matching]
<input type="checkbox"/>	A61B 5/0456	...	Detecting R peaks, e.g. for synchronising diagnostic apparatus [N. (physiological signal analysis for synchronising or triggering a measurement or image acquisition A61B 5/7285)]
<input type="checkbox"/>	A61B 5/046	...	Detecting fibrillation
<input type="checkbox"/>	A61B 5/0464	...	Detecting tachycardia or bradycardia
<input type="checkbox"/>	A61B 5/0468	...	Detecting abnormal ECG interval, [e.g. extrasystoles, ectopic heartbeats]
<input type="checkbox"/>	A61B 5/0472	...	Detecting abnormal QRS complex, [e.g. widening]
<input checked="" type="checkbox"/>	A61B 5/0476	...	Electroencephalography [(devices for psychotechnics A61B 5/16)]
<input type="checkbox"/>	A61B 5/0478	...	Electrodes specially adapted therefor
<input type="checkbox"/>	A61B 5/048	...	Detecting the frequency distribution of signals [(analysing frequency spectra in general G01R 23/00)]
<input type="checkbox"/>	A61B 5/0482	...	using biofeedback [(biofeedback per se A61B 5/486)]
<input checked="" type="checkbox"/>	A61B 5/0484	...	using evoked response
<input type="checkbox"/>	A61B 5/04842	...	[visually]

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# CPC Sectional Page

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**CPC COOPERATIVE PATENT CLASSIFICATION**

**A HUMAN NECESSITIES**

**B PERFORMING OPERATIONS; TRANSPORTING**

**C CHEMISTRY; METALLURGY**

**D TEXTILES; PAPER**

**E FIXED CONSTRUCTIONS**

**F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS**

**G PHYSICS**

**H ELECTRICITY**

**Y GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-OVER TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC**

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# Browsing CPC Classes and Subclasses in CPC Section A

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Outline  Indent Level: Subsections | Classes | Subclasses  
Color  Curly Brackets

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**CPC COOPERATIVE PATENT CLASSIFICATION**

**A HUMAN NECESSITIES**

**SUBSECTION: Agriculture**

**A01 AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING**

**SUBSECTION: Foodstuffs; tobacco**

**A21 BAKING; EDIBLE DOUGHS**

**A21B BAKERS' OVENS; MACHINES OR EQUIPMENT FOR BAKING** (domestic baking equipment A47J 37/00; combustion apparatus F23; domestic stoves or ranges being wholly or partly ovens F24B; F24C)

**A21C MACHINES OR EQUIPMENT FOR MAKING OR PROCESSING DOUGHS; HANDLING BAKED ARTICLES MADE FROM DOUGH**

**A21D TREATMENT, e.g. PRESERVATION, OF FLOUR OR DOUGH, e.g. BY ADDITION OF MATERIALS; BAKING; BAKERY PRODUCTS; PRESERVATION THEREOF**

**A22 BUTCHERING; MEAT TREATMENT; PROCESSING POULTRY OR FISH**

**A23 FOODS OR FOODSTUFFS; THEIR TREATMENT, NOT COVERED BY OTHER CLASSES**

**NOTE**

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## PubEast

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## Implementing Cooperative Patent Classification (CPC): EAST

- CPC Search System User Interface provides:
  - a. New Classification Tab & Workspace/window.
  - b. A Ticker to display CPC, USPC, & IPC with the five highest classes and hits.
  - c. Classes displayed by group & detailed view.
  - d. Classification schedules and titles.
  - e. The ability to create a classification query to search among CPC, USPC, & IPC.
  - f. Ability to Order by Hits (hit terms in a document).
  - g. Display of Family ID and CPC Classification information added to documents.

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The screenshot shows the USPC/IPC classification software interface. Annotations point to various features:

- a. Classification Tab & Workspace/Window:** Points to the top navigation bar and the main workspace area.
- b. Ticker:** Points to the 'Ticker' window on the right side of the interface.
- c. Group and Detail View of Classes:** Points to the 'Class Schedule' window showing a list of classes.
- d. Classification Schedules and Titles:** Points to the 'Class Schedule' window showing a list of classes with their titles.
- e. Ability to Create a Query Including CPC, USPC & IPC:** Points to the search query input field at the top.
- f. Ability to Order by Hits:** Points to the 'Order by HITS' option in the search settings.
- g. Display of Family ID and CPC Data:** Points to the 'PATENT-FAMILY-ID: 34078447' and 'US-CL-CURRENT: 604/167.04, 128/998' fields.

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## External Training Initiatives

- CPC “Block” training for external users
  - E-learning Platform
  - Reference Materials
  
- E-learning modules and/or reference materials explaining the impact of CPC on USPTO and EPO search and classification tools, e.g.,...
  - PubWest                      PubEast
  - EPOQUE.Net                Espacenet
  
- General Workshops and Ad-hoc CPC user awareness events

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## Availability of External Training Initiatives

Legend: Q1 = Quarter 1; Q2 = Quarter 2; Q3 = Quarter 3; and Q4 = Quarter 4

Product	Production	Roll-out	Target Group
Training Pilot US	Q1/Q2 2012	Q3 2012	USPTO and USPTO Classification Contractor
Field Specific Training USPTO	Q2/Q3 2012	Q4 2012 & Q1/Q2 2013	USPTO and USPTO Classification Contractor
“Block Training” (Internal)	Q3 2012	Q4 2012 & Q1/Q2 2013	USPTO and USPTO Classification Contractor
“Block Training” (External)	Q1 2013	Q2/Q3 2013	All Public Users/Stakeholders
E-learning Modules on Search and Classification Tools	Q3/Q4 2012 & Q1 2013	Q2/Q3 2013	All Internal and External Users/Stakeholders
General Workshops and Ad-hoc CPC Awareness Events	Q1/Q2 2013	Q3/Q4 2013	All Public Users/Stakeholders

All external Product deliver dates subject to budgetary constraints.

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## CPC Website

- CPC General Website:  
<http://www.CPCinfo.org>
- Link to Classification Homepage:  
<http://ptoweb:8081/#a>
- IPC Guide:  
[http://ptoweb:8081/international/guide\\_ipc\\_ce34\\_10\\_6.pdf](http://ptoweb:8081/international/guide_ipc_ce34_10_6.pdf)
- ESPACENET, the EPO's public search tool:  
– <http://worldwide.espacenet.com/>

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## Questions?

**Thank you!**

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