



Recent development of International Classifications

Kunihiko FUSHIMI

Director

International Classifications and Standards Division

Global Infrastructure Sector

World Intellectual Property Organization

**Geneva
October 30, 2018**

Overviews

■ IPC

■ Nice

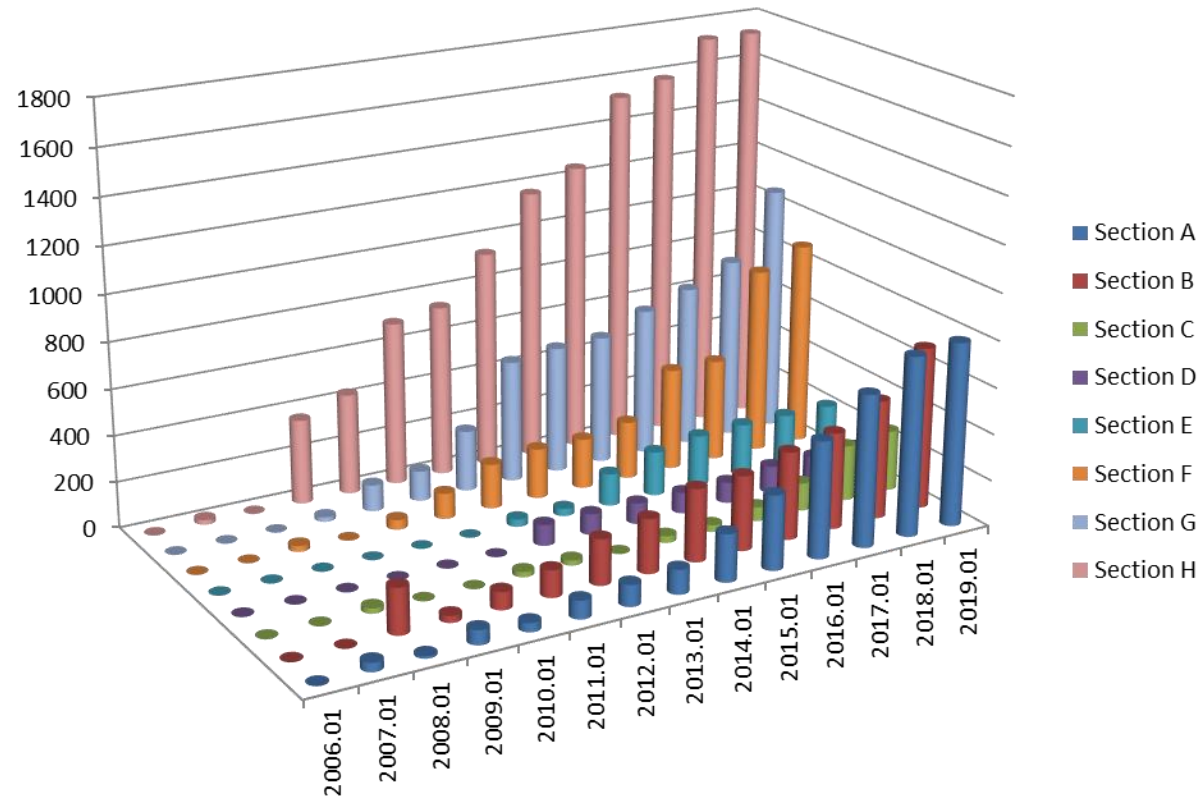
■ Locarno

■ Vienna

IPC 2019.01

- Entry into force in Jan. 2019
- Available as Early publication at IPCPUB
- 1458 amendments, including 681 new subdivisions through the discussion at RWG38 in Nov. 2017 and RWG39 in Apr. 2018
- The evolution this year clearly indicates that technological developments are intensified in the field of physics, in particular, Information and Communication Technology(ICT) (Section G)

The evolution of number of groups of IPC



IPC/CE (Committee of Experts)

- 50th session was held in February
- Shared the understanding that the coherency between the IPC and other Classifications was critically important and the efforts to enhance and maintain such coherency should be continued
- Established an Experts Group to consider the need for a new universal indexing/tagging scheme in the IPC covering cross-cutting technologies in general
- Project for handover of working lists management from the EPO to WIPO

Semiconductor (H01L)

(Overly complex areas)

- Expert Group was established at CE48 in 2016 to address overly complicated and deeply subdivided structure
- Physical meetings were held in conjunction with RWG38 in Nov. 2017 and RWG39 in May 2018
- New class approach vs Stay in H01L approach
- Next physical meeting will be held in conjunction with RWG40 in Nov. 2018

IP5/WG1 (Working Group on Classification)

- 18th session was held in March 2018 and virtual technical session was held in Oct. 2018
- Promotion of IP5 projects to IPC phase:
 - 5 projects at the spring session
 - 18 projects at the autumn session
- New Emerging Technologies
 - Internet of Things (IoT), Artificial Intelligence (AI), Autonomous Vehicles (AV), Big Data, Intelligent Robots, How to make IPC schemes for NET etc.

IPCCAT-neural : user interface (through IPC Publication platform)

WIPO
WORLD INTELLECTUAL PROPERTY ORGANIZATION

Home References International Classifications International Patent Classification IPC Publication

An IPC Symbol or terms

Results

Advanced Search

Categorization (IPCCAT):

3 Number of predictions

SubG Classification level

Default Language

A01N Start From

A HUMAN NECESSITIES
 B PERFORMING OPERATIONS; TRANSPORTATION
 C CHEMISTRY; METALLURGY
 D TEXTILES; PAPER
 E FIXED CONSTRUCTIONS
 F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
 G PHYSICS
 H ELECTRICITY

Scheme RCL Compilation Catchwords

IPCPUB v7.6 - 22.03.2018
CPC 02.2018, FI 01.01.2018

WORLD INTELLECTUAL PROPERTY ORGANIZATION

IPCCAT-neural 2018:

text categorization in the IPC at subgroup level

- Automatic prediction in 99% of the IPC i.e. among **72,137 categories**
- Top-three guess **precision > 80%**

IPCCAT-neural 2018: text categorization in the IPC at subgroup level

Training collection, IPC coverage and precision:

- Training collection: 27.7 million in EN and 4.4 in FR
- **Coverage of the IPC** (using IPC and CPC through concordance):
 - **99%** at subgroup level (EN)
 - 91% at subgroup level (FR)
- **Precision** (three guesses):
 - **82.5 %** at subgroup level (EN)
 - 72% at subgroup level (FR)

NCL (11-2019)

- 11th edition from 2017.01
- 28th Committee of Experts in May, 2018
- 676 modifications including 389 new entries
 - Cl. 9 - The “IT/electronics”
 - Cl. 10 – Surgical, medical, dental and veterinary apparatus and instruments
 - Cl. 36, 42 – Research services
 - Cl. 6,7,9 etc. – Dispensers
 - Class heading revision in 14 classes
- Entry into force in Jan. 2019
- Available as Early publication at NCLPUB

Future development of Nice Classification

- Nice Classification Revision Management System (NCLRMS)
 - Preliminary Electronic voting
 - Proposals from Madrid Goods and Services

LOC (12)

- 13th Committee of Experts in Nov., 2017
- 823 modifications and the creation of 19 new subclasses
 - Cl. 7 - Household goods, not elsewhere specified
 - Cl. 8 - Tools and hardware
 - Cl. 14 - Recording, communication and information retrieval equipment
 - Cl. 30 - Articles for the care and handling of animals
- Entry into force in Jan. 2019
- First version on the new publication platform
- Periodicity of the session of CE: once every two years

VCL (8)

- Entered into force in 2018.01
- 156 modifications to the previous edition

Questionnaire on the future development of the Vienna Classification

- Issued in August, 2018
- Deadline : October 31, 2018

Thank you for your attention !