CPC Implementation at KIPO

Deputy Director
Kim Jieon
06 February, 2018
CPC Fifth Annual meeting, Geneva
Agenda

- Classification/Search under the CPC system at KIPO
- Quality Assurance process
- CPC Training
- CPC Implementation
- CPC data exchange
Classification / Search
under the CPC system
at KIPO
Policy on Classification

• Since January 2015
• Classification for newly filed applications (all fields)
• Outsource classification job to the PIPC
• Matching of IPC automatically
  (CPC-IPC Concordance Table)
CPC Searching System

• **CPC-IPC Integrated Searching System** (since July 1, 2017)
  - traditionally examiners had to search CPCs and IPCs separately

• The system has become more sophisticated as sub-classifications can also be searched.

**Classification Search on KOMPASS**

<table>
<thead>
<tr>
<th>분류관련</th>
<th>CPC[CPC]</th>
<th>IFC분류[IPC]</th>
</tr>
</thead>
<tbody>
<tr>
<td>번호관련</td>
<td>출원번호[AN]</td>
<td>공개번호[OPN]</td>
</tr>
<tr>
<td></td>
<td>공보번호[PN]</td>
<td>등록번호[GN]</td>
</tr>
<tr>
<td></td>
<td>무선권출원번호[RN]</td>
<td>PCT출원번호[IAN]</td>
</tr>
</tbody>
</table>

- [IPC/CPC[CPC]] (AND OR)
- [F-TERM[FT]] (AND OR)
- [FI[FI]] (AND OR)
- [IPC/CPC주분류[CPC_M]] (AND OR)
- [IPC/CPC부분류[CPC_S]] (AND OR)
System for statistics on CPC using

- Made a new system that captures statistics on CPC utilization in search work, per technology fields, examiners, or classification schemes

<table>
<thead>
<tr>
<th>No</th>
<th>달당자</th>
<th>출전권</th>
<th>IPC</th>
<th>CPC</th>
<th>F-Term/FI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>3(12.00%)</td>
<td>0(0.00%)</td>
<td>0(0.00%)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>30</td>
<td>18(60.00%)</td>
<td>18(60.00%)</td>
<td>1(3.57%)</td>
<td>1(3.57%)</td>
</tr>
<tr>
<td>3</td>
<td>33</td>
<td>5(15.15%)</td>
<td>1(3.03%)</td>
<td>0(0.00%)</td>
<td>0(0.00%)</td>
</tr>
<tr>
<td>4</td>
<td>28</td>
<td>4(14.29%)</td>
<td>1(3.57%)</td>
<td>0(0.00%)</td>
<td>0(0.00%)</td>
</tr>
<tr>
<td>5</td>
<td>25</td>
<td>10(40.00%)</td>
<td>0(0.00%)</td>
<td>0(0.00%)</td>
<td>0(0.00%)</td>
</tr>
<tr>
<td>6</td>
<td>28</td>
<td>27(96.00%)</td>
<td>1(3.65%)</td>
<td>0(0.00%)</td>
<td>0(0.00%)</td>
</tr>
<tr>
<td>합계</td>
<td>170</td>
<td>71(41.76%)</td>
<td>21(12.38%)</td>
<td>18(10.59%)</td>
<td></td>
</tr>
</tbody>
</table>
Status of backfile reclassification

- In case of backfile with family doc (EP, US), KR has assigned the classification symbols of the family doc into KR doc
- The reclassification of the entire backfiles will be completed by the end of 2018.
  - This plan is 1 year faster than its original plan.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of documents</td>
<td>120,420</td>
<td>231,902</td>
<td>821,441</td>
<td>1,020,254</td>
<td>600,000</td>
</tr>
</tbody>
</table>
Reclassification due to revisions

• The reclassification due to CPC revisions will be conducted every year from this year.

• When CPC revisions come into force YYYY, classification symbols are temporarily reclassified by way of ‘Default transfer’, then they would be intellectually reclassified in YYYY+1.

* The symbols would be given ‘D’(used internally) as ‘source of classification data’ values.
Classification of PCT applications

- Since Jun 2016
- First, assigning CPC to PCT applications
- Second, matching with IPC (CPC-IPC Concordance Table)
Quality Assurance Process
under the CPC system at KIPO
Quality assurance processes

◆ Documents under examination
  - Examiners can add/delete/amend classification symbols on the documents under their examination

◆ Backfile reclassified by external agencies
  - Classification results by each classifiers are sampled every month, and evaluated by the TF team of examiners
CPC Training
CPC Training at KIPO

◆ Regular CPC training for examiners

• In 2017 : respectively in March and September, 20 attendants
• In 2018 : 28 February, 21 September

◆ Support on-line learning

• KIPO Academy website
CPC Training at EPO, USPTO

In 2017

♦ EPO
- 1st (EPO Munchen, 23 April – 14 May) 6 Examiners, 5 Classifiers
- 2nd (EPO Hague, 11– 29 September) 6 Examiners, 4 Classifiers

♦ USPTO
- 1st (Alexandria, 28th May – 18th June) 5 Examiners
- 2nd (Alexandria, 27 November – 15th December) 6 Examiners

In 2018

♦ EPO
- 1st (EPO Munchen, 14 April – 4 May)
- 2nd (EPO Hague, October)

♦ USPTO
- 1st (Alexandria, November)
CPC Implementation
New classification scheme

• we have suggested a IPC revision in the area of Artificial Intelligence and 3D printing.
• This year we’ll make another revision suggestion for the technology of big data, cloud computing, and intelligent robots.
• Korea has already prepared a tech-tree and new classification scheme for those technology areas, And started applying them to the applications domestically filed
◆ Benefit by the CPC
  - Improvement of the efficiency of searching prior arts, especially for patent documents from the other offices like EP, US

◆ Translation of the CPC materials into Korean
  - CPC schemes are translated into Korean every CPC revisions, but definitions are provided in English

◆ Challenges while implementing the CPC
  - Difficulty of CEF access
  - Questions about unclear scope of several symbols and scope overlap between symbols
  - Management of two classification systems (CPC, IPC)
CPC Data Exchange
CPC Data Exchange

’14.06 : MOU relating to CPC (KIPO-EPO Heads Meeting)
’15.07 : 1st uploading (141,000 applications, 170MB)

New & Amended Versions of DocDB info (once a week)

KIPO

EPO

XML CPC Data (once a month)
### CPC Data Exchange

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of documents</td>
<td>177,184</td>
<td>385,086</td>
<td>1,378,030</td>
<td>12,455</td>
</tr>
</tbody>
</table>

EPO sends regular reports on CPC data loading so that KIPO takes action on the identified errors.
Thank You