Recent development of the IPC

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Infrastructure and Platforms Sector-WIPO

IP Roundtable
November 30, 2023
Overviews

- IPC Meetings
- IPC 2024.01
- IPC Revision & NETs & IP5
- Future developments
Enter into After-Covid-19 Period

- Three sessions: IPC/WG/43 - WG/45 – Cancelled
- WG/46 in *Hybrid format* – Nov. 2021
- WG/47 in *Hybrid format* – May 2022
- WG/48 in *Hybrid format* – November 2022
- WG/49 in *Hybrid format* – April 2023
- WG/50 in *Hybrid format* – November 2023
- *IPC/CE/54 session (Hybrid)* - in February 2023
- *IPC/CE/55 session (Hybrid)* – to be held in March 2024
IPC 2024.01

- Available as Early publication at IPCPUB
- Entry into force in Jan. 2024
- 966 amendments, including 338 new subdivisions
Evolution of IPC number of groups per section
What’s New IPC 2024.01

<table>
<thead>
<tr>
<th>Technology</th>
<th>IPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparatus for radiation diagnosis, e.g. combined with radiation therapy equipment</td>
<td>A61B 6/00</td>
</tr>
<tr>
<td>Instrumentation or dashboards for vehicles</td>
<td>B60K 35/00, B60K 37/00</td>
</tr>
<tr>
<td>Installations for supplying electrical power to stationary aircraft</td>
<td>B64F 1/00</td>
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<td>Aircraft powered by electric energy*</td>
<td>B64D</td>
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<td>Control of position, course or altitude of land, water or air vehicles*</td>
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Response to New Emerging Technology fields (NETs)
IPC Revision Roadmap

- Established in 2013 by IPC/CE
- Identify IPC areas as revision candidates, where:
  - large amount of patent applications;
  - with significant growth rate;
  - IPC is not sufficient for an effective search
- The List is updated twice a year by WIPO
- IPOs can propose new candidates to the List, e.g. for NETs
# New Emerging Technologies (NET)

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<tr>
<th>Technology</th>
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<tr>
<td><strong>Semiconductor Devices</strong></td>
<td>2023.01</td>
<td>H10B, H10K, H10N</td>
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<td><strong>Unmanned aerial vehicles [UAV]</strong></td>
<td>2023.01</td>
<td>B64U (new)</td>
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<td>2022.01</td>
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<tr>
<td>Data Switching networks</td>
<td>2022.01</td>
<td>H04L</td>
</tr>
<tr>
<td>Central traffic control systems</td>
<td>2022.01</td>
<td>H04W</td>
</tr>
<tr>
<td>Internet of Things (IoTs)</td>
<td>2020.01</td>
<td>G16Y (new)</td>
</tr>
<tr>
<td><strong>3D Printing</strong></td>
<td>2015.01, 2020.01</td>
<td>B33Y (new)</td>
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<td><strong>2021.01</strong></td>
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<td><strong>Autonomous Road Vehicles</strong></td>
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Coherent evolution of IPC as a basis for other classification schemes (IP5 WG1)
Two virtual technical sessions were held in March and Oct. 2023

Promotion of IP5 projects to IPC phase:
- 12+8 projects in March & Oct. 2023

NETs/Environmentally Sound Technologies (ESTs):
- Robots (a new subclass B70R);
- Cellular immunotherapy (A61K);
- Hydrogen; Gaseous mixtures containing hydrogen; (C01B 3/00)
Future Developments (1)

Upcoming IPC 2025.01

IPC/WG/49&50 approved + more candidates at IPC/WG/51 for IPC 2025.01:

- *Robots* (B25J & B70R)
- Preservation of foods, foodstuffs or non-alcoholic beverages (A23B, A23C, A23D, A23L A21D)
- *Hydrogen; Gaseous mixtures containing hydrogen*; (C01B 3/00)
- *Cellular immunotherapy* (A61K);
- More new subclasses for semiconductor devices:
  - H10D; H10F; H10H
Future Developments (2)

- The need for a new type of universal indexing/tagging scheme covering cross-cutting technologies?

- An ongoing project under discussion at the IPC/CE
Future Developments (3)

AI for IPC (re)classification
IPCCAT-neural 2023: text categorization in the IPC at subgroup level

- IPCCAT-neural at IPC subgroup level is now cross-lingual in 12 languages
- Automatic prediction in 99% places of the IPC
- Top-three guess precision > 82%
AI-based reclassification:

- WIPO’s Initiatives to develop an AI-based reclassification service
- Similar technology as used for IPCCAT
- Target: dealing with un-reclassified families
- Testing & validation stage
Thank you for your attention!