Patent Cooperation Treaty (PCT) 2019-2020 Updates



IP Information Roundtable
Geneva (online) – December 1, 2020

Speaker: Christine Bonvallet Director

PCT International Cooperation Division

peration Division





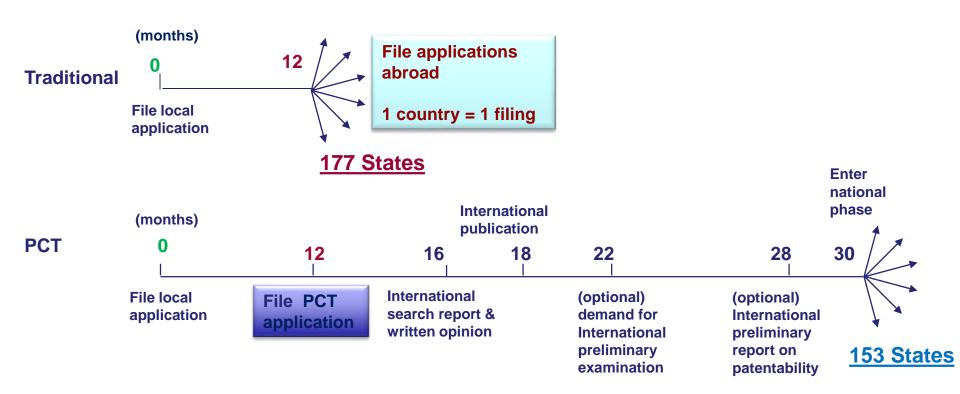
Overview

- WIPO and PCT system
 - PCT Statistics

- WIPO Covid-19 response
- and updates:
 - □ Amendments to PCT Regulations as from 1 July 2020
 - ☐ PCT Working Group and CTC 2020



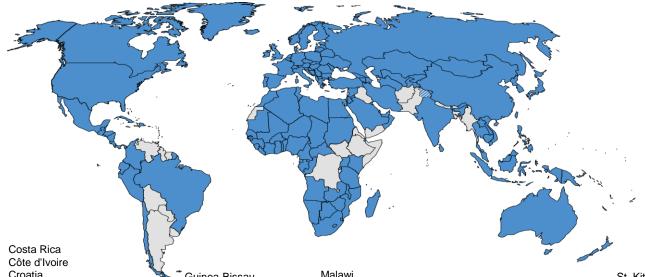
Seeking patents multinationally: traditional patent system ("Paris Route") vs. PCT system





153 PCT States





Algeria Angola Antigua and Barbuda

Armenia

Australia Austria Azerbaijan

Albania

Bahrain Barbados Belarus

Belgium Belize

Benin

Bosnia and Herzegovina Botswana

Brazil

Brunei Darussalam

Bulgaria
Burkina Faso
Cambodia
Cameroon
Canada

Central African Republic

Chad Chile China Colombia Comoros Congo Costa Rica
Côte d'Ivoire
Croatia
Cuba
Cyprus
Czech Republic
Democratic People's
Republic of Korea
Denmark

Denmark Djibouti Dominica

Dominican Republic

Ecuador Egypt El Salvador Equatorial Guinea

Equatorial Gu Estonia Finland France-Gabon Gambia Georgia Germany Ghana Greece Grenada Guatemala Guinea Guinea-Bissau
Honduras
Hungary
Iceland
India
Indonesia
Iran (Islamic Republic of)
Ireland
Israel
Italy
Japan
Jordan
Kazakhstan

Kuwait
Kyrgyzstan
Lao People's Dem Rep.
Latvia
Lesotho
Liberia
Libya
Liechtenstein
Lithuania
Luxembourg
Madagascar

Kenya

Malawi Malaysia Mali Malta Mauritania Mexico Monaco Mongolia Montenegro Morocco Mozambique Namibia Netherlands New Zealand Nicaragua Niger Nigeria Norway Oman Panama

Papua New Guinea

Russian Federation Saint Lucia Saint Vincent and the Grenadines Samoa (Jan 2, 2020) San Marino Sao Tomé e Principe Saudi Arabia Senegal Serbia Sevchelles Sierra Leone Singapore Slovakia Slovenia South Africa Spain Sri Lanka Sudan

Swaziland

Poland

Qatar

Portugal

Romania

Rwanda

Republic of Korea

Republic of Moldova

St. Kitts and Nevis Sweden Switzerland Syrian Arab Republic **Tajikistan** Thailand The former Yugoslav Republic of Macedonia Togo Trinidad and Tobago Tunisia Turkev Turkmenistan Uganda Ukraine United Arab Emirates United Kingdom United Republic of Tanzania United States of America Uzbekistan Viet Nam 7ambia Zimbabwe



Peru

Philippines

UN Member States not yet in PCT

Afghanistan

Andorra

Argentina

Bahamas

Bangladesh*

Bhutan**

Bolivia*

Burundi

Cape Verde**

Democratic Republic of

Congo

Eritrea

Ethiopia

Fiji

Guyana

Haiti

Iraq

Jamaica**

Kiribati

Lebanon

Maldives

Marshall Islands

Mauritius*

Micronesia

Myanmar*

Nauru

Nepal

Pakistan

Palau

Paraguay

Solomon Islands

Somalia

South Sudan

Suriname

Timor-Leste

Tonga

Tuvalu

Uruguay*

Vanuatu

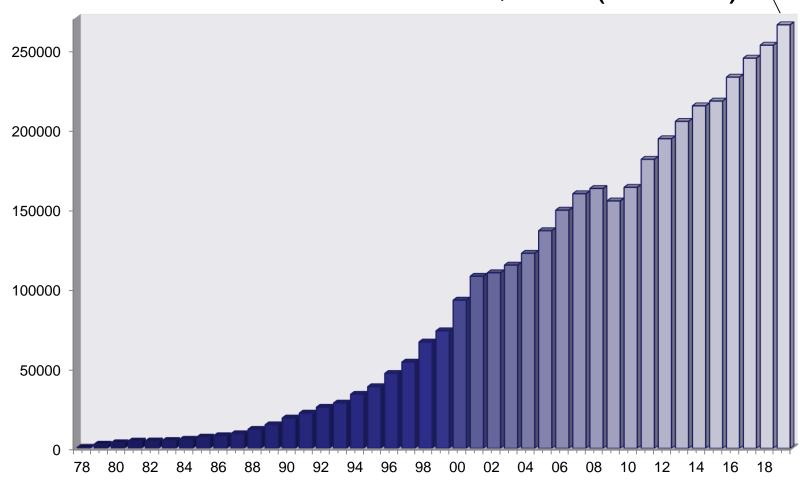
Venezuela

Yemen

(40)



PCT Applications •265,800 (+5.2%)

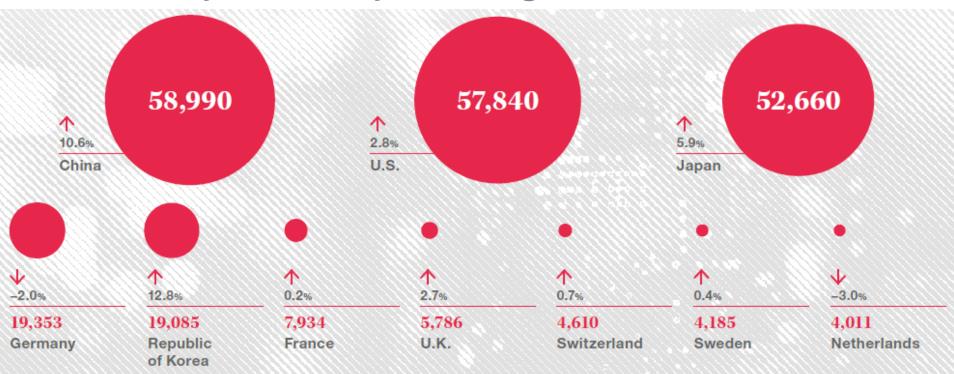


265,800 international applications in 2019 (+ 5.2 %)

World Economic Growth 2019 (+2.9%)



International applications received in 2019 by country of origin

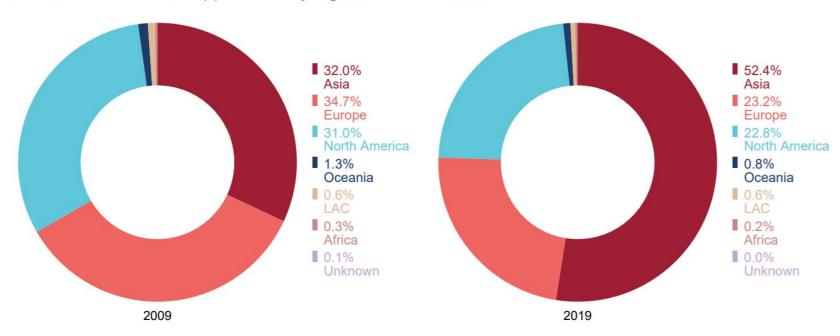


- •China becomes top PCT origin country; US held this position since 1978
- •22.2% originating in China, 21.8% in US, 19.8% in Japan
- •63.8% from the top 3 countries, 78.2% from top 5 countries, 92.8% of filings from top 15 countries (Asia > 52%)

PCT regional share 2009 & 2019

Asia accounted for the majority of PCT applications filed in 2019.

A3. Distribution of PCT applications by region, 2009 and 2019

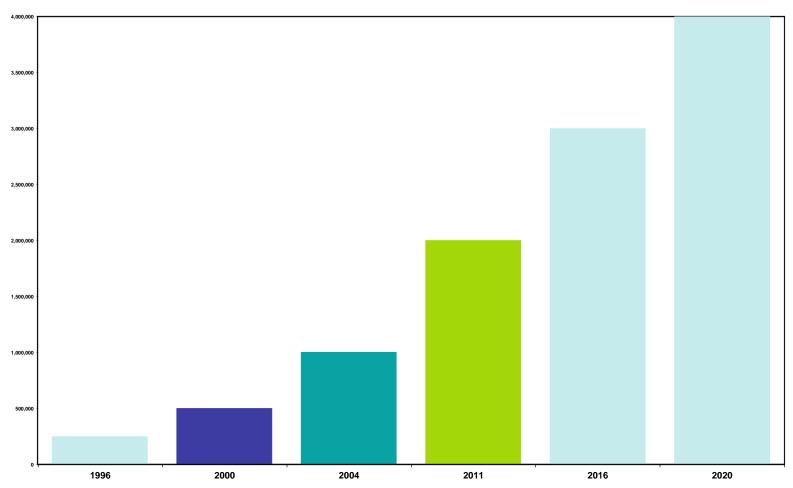


Note: Data for 2019 are WIPO estimates. Each region includes the following number of offices: Africa (21), Asia (36), Europe (43), Latin America and the Caribbean (LAC) (20), North America (3) and Oceania (4).

Source: WIPO Statistics Database, March 2020.



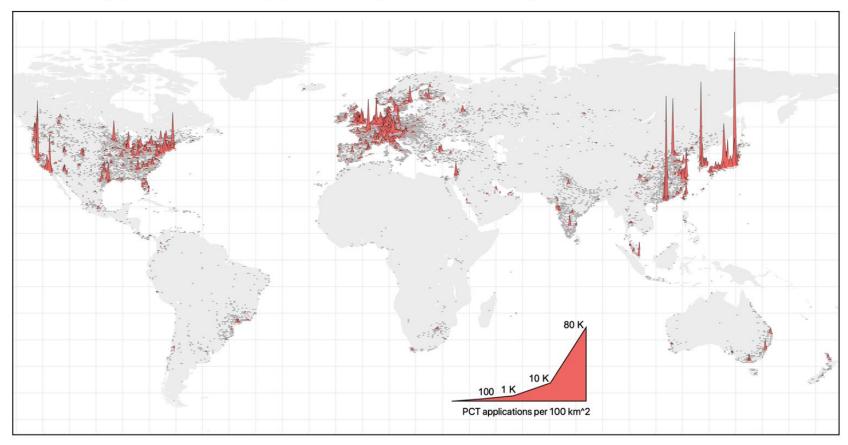
4 million+ PCT applications



- 26 years for 1st million applications
- 7 years for 2nd million
- 5-6 years for 3rd million
- 4 years for 4th million



S1. PCT application density per 100 square kilometers, 2014–2018



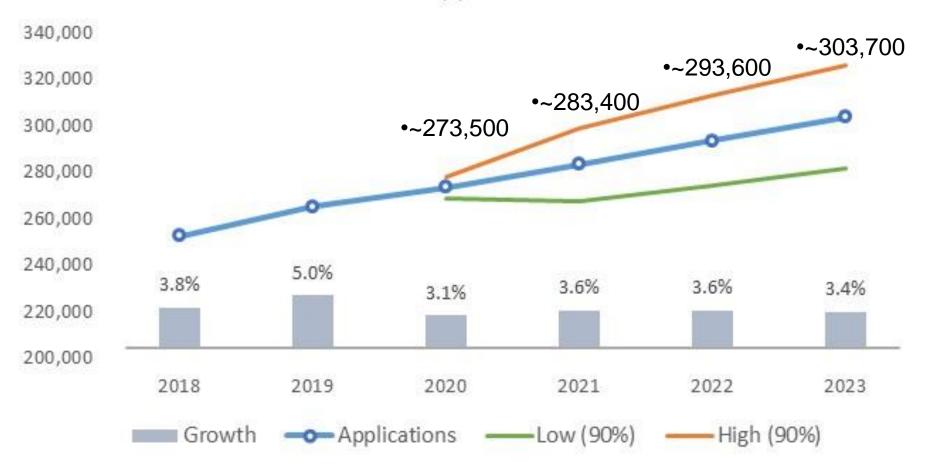
Source: WIPO Statistics Database, March 2020.

• the top 50 PCT clusters are evenly distributed across Asia (17), Europe (17) and North America (16)



PCT Application Filings (forecast) •(October 2020)







Top PCT applicants in 2019

- 1. Huawei Technologies—CN (4,411)
- 2. Mitsubishi Electric—JP (2,661)

() of published PCT applications

- 3. Samsung—KR (2,334)
- 4. Qualcomm—US (2,127)
- 5. Guang Dong Oppo Mobile Telecom—CN (1,927)
- 6. BOE Technology Group—CN (1,864)
- 7. Ericsson—SE (1,698)
- 8. Ping An Technology (Shenzhen)—CN (1,691)
- 9. Bosch—DE (1,687)
- 10. LG Electronics—KR (1,646)
- 11. LG Chem, Ltd.—KR (1,624)
- 12. Panasonic—JP (1,567)
- 13. Sony—JP (1,566)
- 14. Hewlett-Packard—US (1,507)
- 15. Microsoft—US (1,370)



Top PCT University applicants in 2019

- 1. University of California (US)
- 2. Tsinghua University (CN)
- 3. Shenzhen University (CN)
- 4. Massachusetts Institute of Technology (US)
- 5. South China University of Technology (CN)
- 6. University of Texas (US)
- 7. Dalian University of Technology (CN)
- 8. Harvard University (US)
- 9. Seoul National University (KR)
- 10. Stanford University(US)
- 11. King Abdullah University of Science and Technology (SA)
- 12. University of Tokyo (JP)
- 13. Jiangnan University (CN)
- 14. Hangyang University (KR)
- 15. University of Michigan (US)

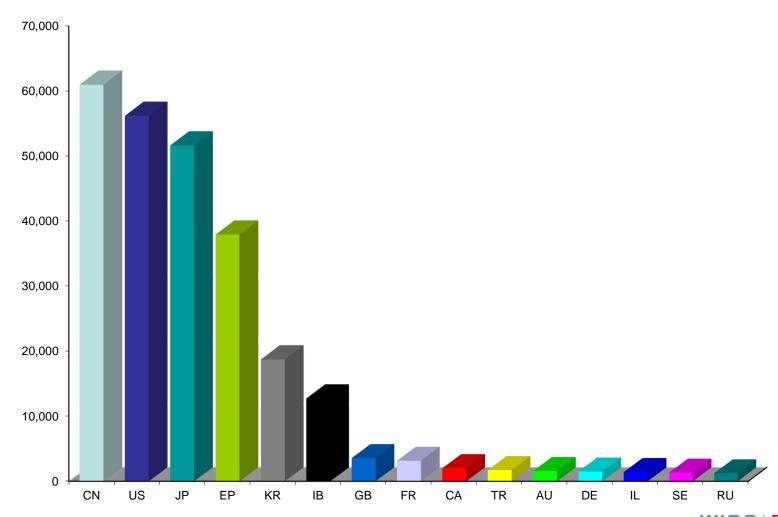


Top Government/PRO PCT Applicants in 2019

- 1. Fraunhofer-Gesellschaft (DE)
- 2. China Academy of Telecommunications Technology (CN)
- 3. Commissariat a L'Energie Atomique et aux Energies Alternatives (FR)
- 4. Shenzhen Institute of Advanced Technology (CN)
- 5. Agency of Science, Technology and Research (SG)
- Centre National de la Recherche Scientifique (FR)
- 7. Institut National de la Sante et de la Recherche Médicale (FR)
- 8. National Institute of Advanced Industrial Science and Technology (JP)
- 9. United States of America, Secretary of Health and Human Services (US)
- 10. Mayo Foundation for Medical Education and Research (US)
- 11. Korea Electronics and Technology Institute (KR)
- 12. Nederlandse Organsatie Voor Toegepast-Nauurwetenshappelijk Tno (NL)
- 13. Sloan-Kettering Institute for Cancer Research (US)
- 14. Consejo Superior de Investigaciones Cientificas (ES)
- 15. Korea Researach Institute of Chemical Technology (KR)



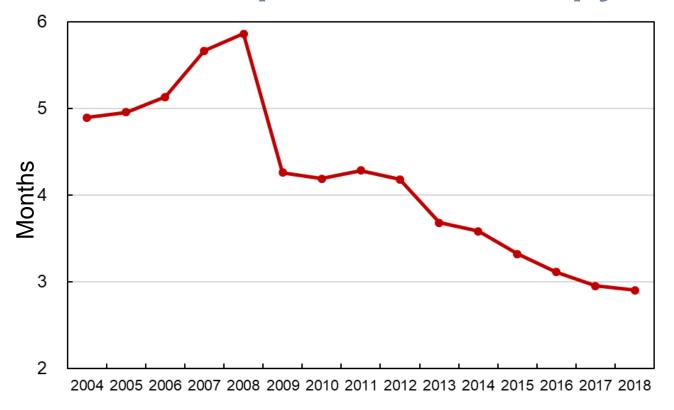
International applications received in 2019 by receiving Office



•The top 10 receiving Offices accounted for 94% of all PCT applications filed



Average Timeliness in Transmitting ISR to IB from Date of Receipt of Search Copy

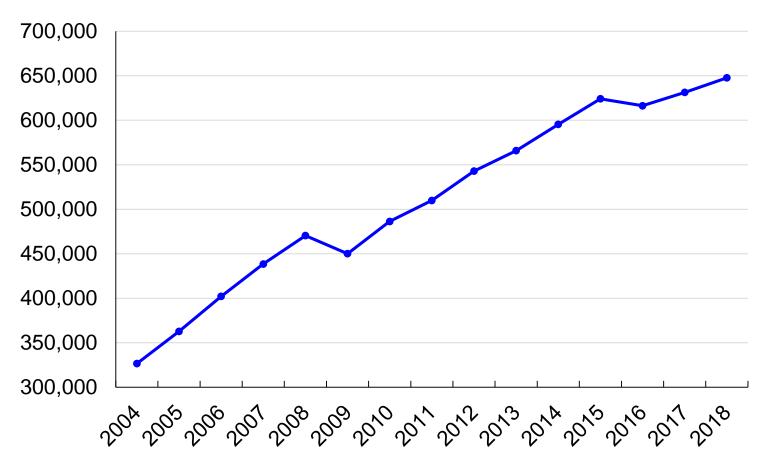


- Average timeliness in transmitting ISRs to the IB was 2.9 months in 2018
- 85.0% of PCT applications transmitted to IB within 3 months from date of receipt of search copy in 2018--expected to rise to 86.6% in 2019

•Source: WIPO statistics database. March 2019 and January 2020.



PCT National Phase Entries

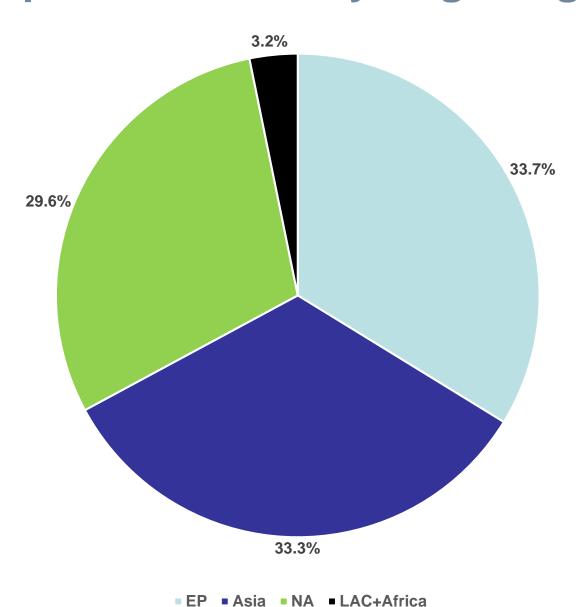


- 647,700 total national phase entries in 2018 (+2.6%)
- 527,300 non-resident national phase entries in 2018 (+2.3%)
- PCT system accounted for 56.9% of all non-resident filings in 2018



•Source: WIPO statistics database. January 2020

National phase entries: by origin region

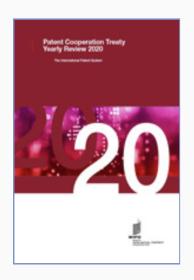


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2020 PCT Yearly Review

PCT Yearly Review



PCT Yearly Review: The International Patent System

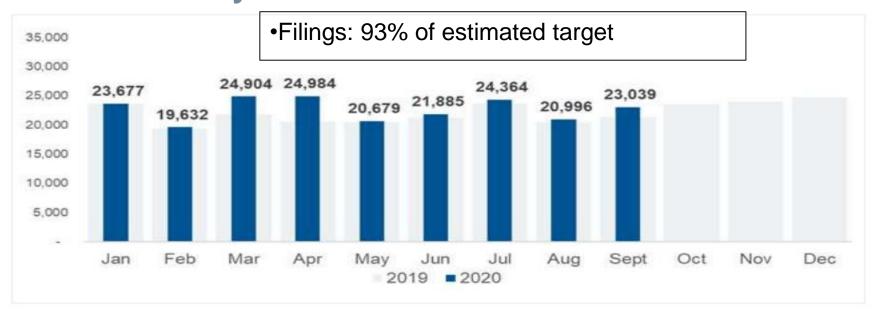
Download report* PDF

* Publication year: 2020; data year is 2019

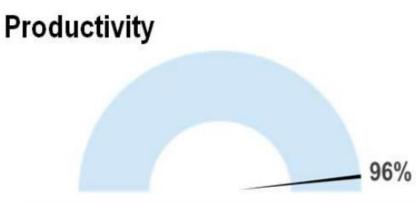
https://www.wipo.int/edocs/pubdocs/en/wipo_pub_901_2020.pdf



PCT Filing Activities and Business Continuity



•(as at date of receipt at the International Bureau (IB))



WIPO's COVID-19 Response

https://www.wipo.int/covid-19/en/

- Crisis Management Dashboard
- **COVID-19 IP Policy Tracker**
- Dedicated page on PCT Website https://www.wipo.int/pct/en/covid_19/covid_update.html

(WIPO Top page → PCT Patents WIPO | PCT | Patents WIPO | PCT | Potents | PCT | Potents | PCT | Patents | PCT | Pc







Paper communications suspended

- ePCT recommended
- Possible remedies and best practices
 - "Practical Advice" relevant to Covid-19
 - □ Excuse of delays under PCT Rule 82 quater.1: Interpretation of the International Bureau and recommendations to PCT Offices and Authorities





Amendments to the PCT Regulations as from 1 July 2020

Amendments to the PCT Regulations as from 1 July 2020 (1)

- Amendment of PCT Rules 4, 12, 20, 48, 51 bis, 55 and 82 ter, and new Rules 20.5 bis and 40 bis
 - □ Clarification that, in addition to incorporating missing elements and parts, in the case of erroneously filed elements or parts, the correct element or part can also be incorporated by reference, if contained in an earlier application
 - New legal basis for cases where incorporation by reference was not successful or applicable, to replace an erroneously filed element or part with the correct element or part (impacting the international filing date)
 - Apply to any international application filed on or after at 1 July 2020

Amendments to the PCT Regulations as from 1 July 2020 (2)

- Amendment of PCT Rule 82quater
 - □ Allows an Office to excuse delays in meeting a time limit due to the unavailability of any permitted electronic means of communication at that Office, such as unforeseen outages or scheduled maintenance
 - Does not apply to the priority period and the time limit for entering the national phase
 - □ Applies to any time limit fixed in the Regulations that expires on or after 1 July 2020



Amendments to the PCT Regulations as from 1 July 2020 (3)

- Application of PCT Rule 82 quater. 2(a) at the International Bureau (also as receiving Office):
 - □ Delays in meeting time limits may be excused where the ePCT system or the PCT Contingency Upload Service was unavailable for a minimum of a continuous one hour period on a specific working day at the International Bureau, subject to the applicant:
 - submitting a request indicating that the time limit was not met due to that reason
 - performing the action on the next available working day at the IB when ePCT or the PCT Contingency Upload Service is available again

Amendments to the PCT Regulations as from 1 July 2020 (4)

- New PCT Rule 26quater
 - □ Allows for correction or addition, during the international phase, of indications referred to in Rule 4.11 in the request form, namely, indications of the applicant's wish that the PCT application be treated in a designated State as
 - continuation or continuation-in-part of an earlier application
 - patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition
 - Applicants will be able to submit a notice of correction or addition to the IB within 16 months from the priority date
- Applies to any international application filed on or after 1 July 2020
 The International Patent System

Amendments to the PCT Regulations as from 1 July 2020 (5)

- PCT Assembly Understanding
 - □ In adopting PCT Rule 20.5bis, the Assembly agreed that, where a correct element or part had been incorporated by reference under PCT Rule 20.5bis(d), the ISA would not need to take into account any erroneously filed element of part which remained in the application
 - □ In adopting PCT Rule 20.8(a-bis), the Assembly agreed that, where an RO could not incorporate a correct element or part because that Office had submitted a notice of incompatibility under this Rule, the RO concerned and the IB should agree to apply PCT Rule 19.4, with the authorization of the applicant
 - Where an applicant had not paid additional fees following an invitation (PCT Rule 40*bis*) (when the ISA had received a notification that a correct element or part had been included in the international application or incorporated by reference only after it had begun to draw up the ISR), the ISA would not need to take into account that correct element or part for the purposes of international search international

Amendments to the PCT Regulations as from 1 July 2020 (6)

- Amendment of PCT Rules 15, 16, 57 and 96
 - Expressly allows the transfer via the IB of fees collected by one Office for the benefit of another Office
 - Apply to any international application for which fees will be transferred by the collecting Office on or after 1 July 2020
- Amendment of PCT Rules 71 and 94
 - □ Requires the IPEA to copy certain documents from its file to the IB, which the IB would make available to the public on behalf of the elected Office
 - Apply to any document received at or established by the IPEA on or after 1 July 2020
 WIPOIPC

Patent System

PCT Working Group, Committee for Technical Cooperation (in hybrid format)

- PCT/WG + CTC (October 5-8, 2020): Recommendations
 - ☐ Eurasian Patent Office's appointment as 24th ISA
 - ☐ Amendments to the Regulations on Implementation of WIPO Standard ST.26 (from January 1, 2022)
 - ☐ Strengthening PCT safeguards in case of general disruption (general support, continue discussion)
 - □ PCT Minimum Documentation Status Report (PCT/WG/13/12)
 - Discussions of the Task Force on objectives B, C and D scheduled from December 7 to 11, 2020 (PCT. C.1611)
 - □ PCT Collaborative Search and Examination Status Report (PCT/WG/13/13)
 - The pilot has reached the evaluation stage which is extended until January 1, 2022 (Survey and Financial Scheme)

International Searching Authorities (24)

- AU Australia
- AT Austria
- BR Brazil
- CA Canada
- CL Chile
- CN China
- EG Egypt
- ES Spain
- FI Finland
- IN India
- IL Israel
- JP Japan
- KR Republic of Korea

- PH Philippines
- RU Russian Federation
- SE Sweden
- SG Singapore
- TR Turkey
- UA Ukraine
- US United States of America
- EP European Patent Office
- XN Nordic Patent Institute (Denmark, Iceland, Norway)
- XV Visegrad Patent Institute (Czech Republic, Poland, Hungary and Slovakia)
- EA Eurasian Patent Office



^{*} Office of filing (Receiving Office) FOR CITY TO THE Which ISAs is/are available

PCT WG Compilation of e-Learning resources

- Regularly updated compilation by the PCT Working Group
- Available at latest PCT meeting website, for example PCT WG 13 https://www.wipo.int/meetings/en/doc_details.jsp?doc_id=469361
- Includes generic and technology specific search related resources
- Includes generic learning sites of patent database vendors
 - □ https://clarivate.com/derwent/learning/home/
 - □ https://www.cas.org/support
 - □ https://www.questel.com/resources/



PCT WG Compilation of e-Learning resources

Framework of technical competencies

- Generic Search Methodologies
- Technology Specific Search Methodologies
- Databases/Platforms/Tools for Patent Information and Prior Art Search
 - Types of Databases
 - Searchable and Retrievable Information
 - Search Interfaces and Modes
 - Patent Databases hosted by IP Offices
 - Other Public Patent & NPL Search Platforms
 - Patent & NPL Search Systems of Commercial Vendors
 - Clarivate Databases

- Database specific skill
- •For a given subject matter, determine the vant DWPI manua code (classification)

Questel databases

STN Databases

Octimine

Lexisnexis

 Expert input is needed for identifying key features peculiar to certain search platforms



Thank you for your attention!

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PCT Legal and International Affairs Department

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