Patent Cooperation Treaty (PCT) related matters



IP Information Roundtable Geneva – October 21, 2019

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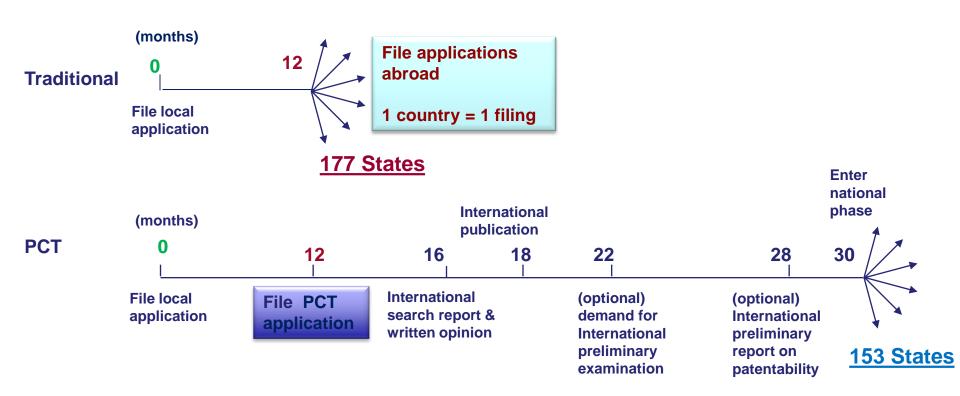


Overview

- PCT system
 - Historical features and PCT coverage
 - Statistics
- and updates:
 - ☐ Amendments to PCT Regulations as from 1 July 2019
 - ☐ PCT Assembly 2019
 - □ Recent Developments (new PCT features)



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





Patent Cooperation Treaty Overview

Overview of the PCT System

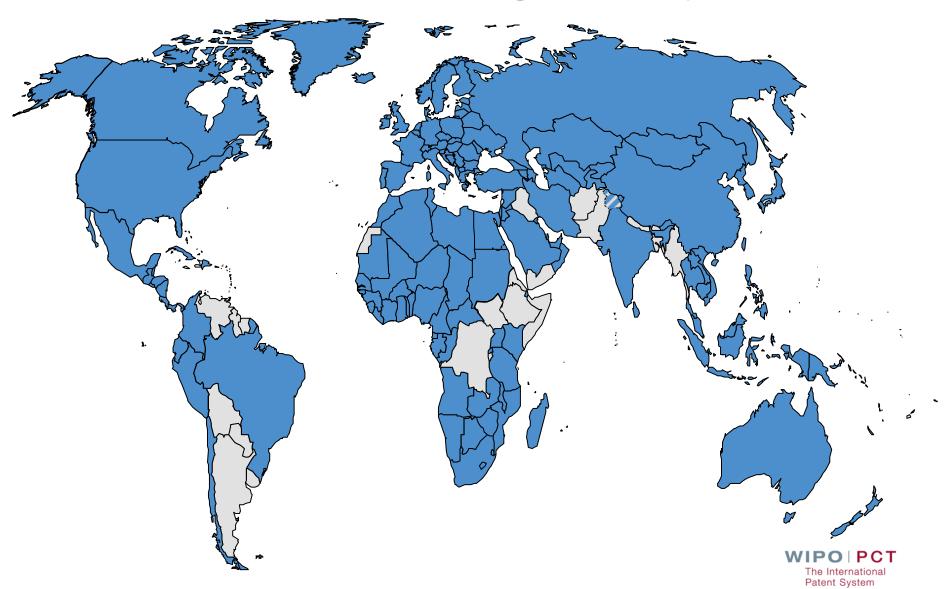


Benefits

- One PCT application with legal effect in all PCT Contracting States
- Harmonized formal requirements
- Receive patentability information to support strategic decision-making
- Postpone significant costs for national processing by 18 months

Source: WIPO, April 2018

PCT Coverage Today



153 PCT States





Algeria Angola Antiqua and Barbuda

Armenia Australia

Austria Azerbaijan Bahrain

Albania

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

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Croatia Cuba Cyprus Czech Republic Democratic People's Republic of Korea

Denmark Djibouti Dominica

Dominican Republic

Ecuador Egypt El Salvador **Equatorial Guinea** 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 Kenya Kuwait Kyrgyzstan Lao People's Dem Rep. Latvia

Lesotho Liberia Libya Liechtenstein Lithuania Luxemboura Madagascar

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

Oman

Peru

Panama

Philippines

San Marino Sao Tomé e Principe Saudi Arabia Senegal Serbia Sevchelles Sierra Leone Singapore Papua New Guinea Slovakia Slovenia South Africa Spain Sri Lanka

Sudan

Swaziland

Poland

Qatar

Portugal

Romania

Saint Lucia

Rwanda

Republic of Korea

Republic of Moldova

Russian Federation

Saint Vincent and

the Grenadines

Samoa (Jan 2, 2020)

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

WIPO | PCT

The International Patent System

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)



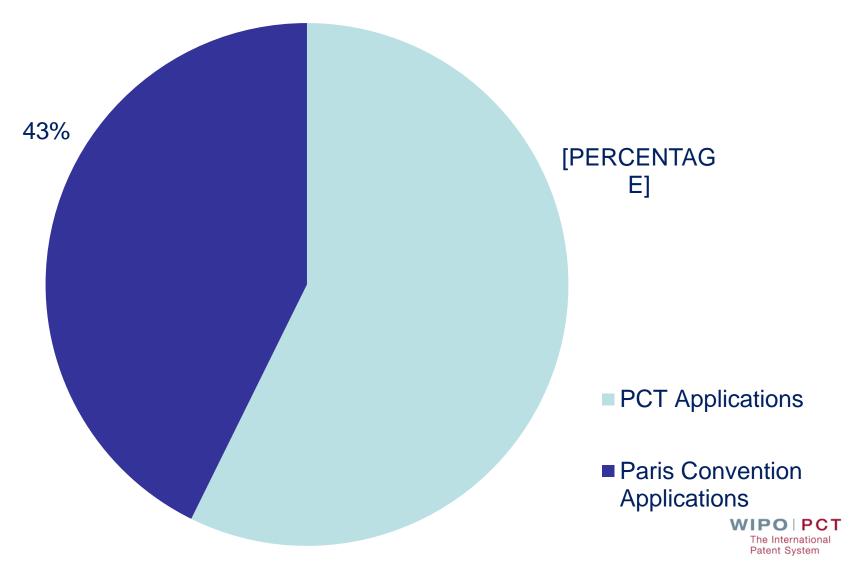
Tremendous growth in PCT applications since 1978



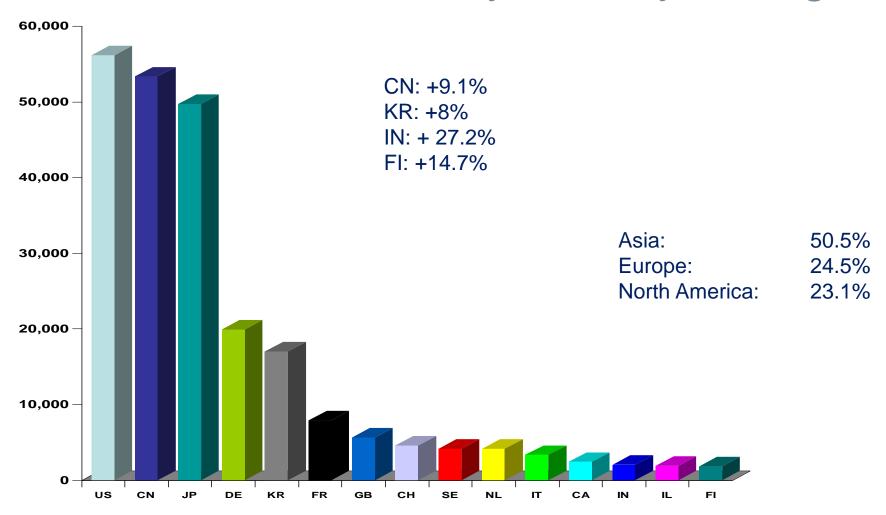
2018: 253,000 filed (average 700/day)

The International Patent System

The PCT has overtaken the Paris Convention



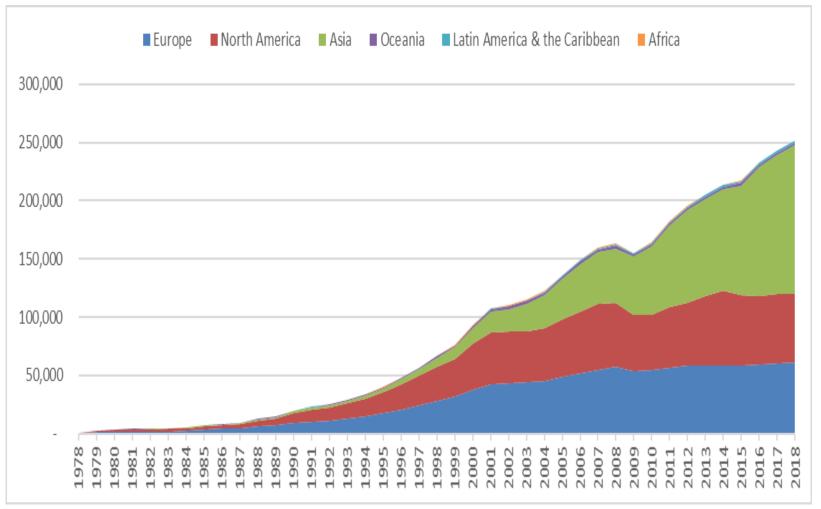
International applications received in 2018 by country of origin



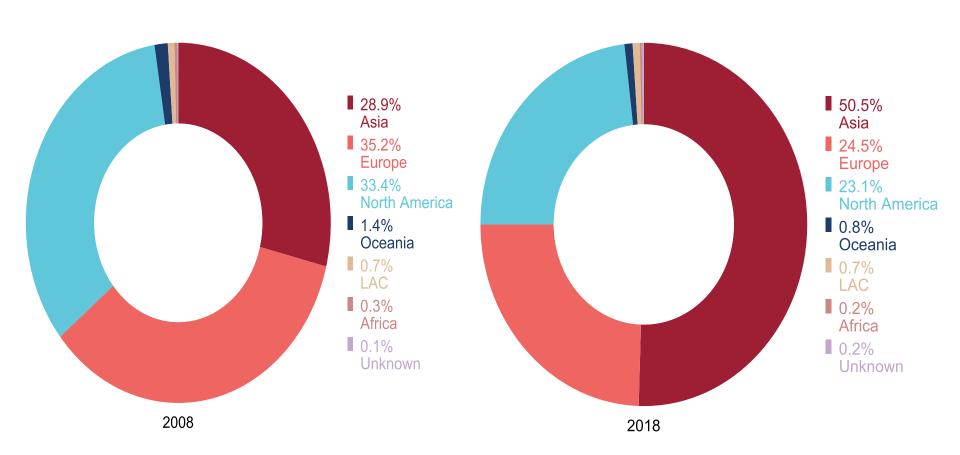
- 22.1% originating in US, 21% in China, 19.6% in Japan
- 62.7% from the top 3 countries, 77.5% from top 5 countries, 92.4% of filings From top 15 countries



PCT applications by region, 1978-2018



PCT applications by region 2008 and 2018





Top PCT applicants in 2018

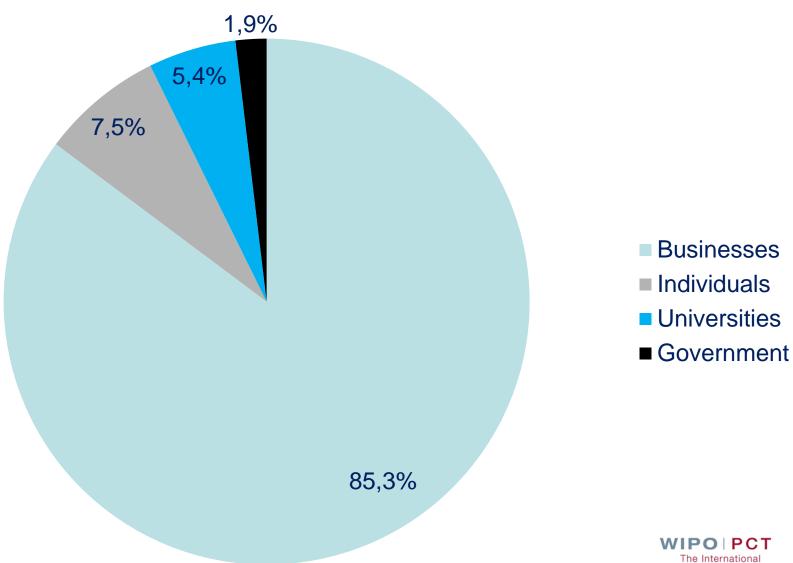
- 1. Huawei Technologies—CN (5,405)
- 2. Mitsubishi Electric—JP (2,812)

() of published PCT applications

- Intel—US (2,499)
- 4. Qualcomm—US (2,404)
- 5. ZTE—CN (2,080)
- Samsung—KR (1,997)
- 7. BOE Technology Group—CN (1,813)
- 8. LG Electronics—KR (1,697)
- 9. Ericsson—SE (1,645)
- 10. Bosch—DE (1,524)
- 11. Microsoft—US (1,476)
- 12. Panasonic—JP (1,465)
- 13. Sony—JP (1,342)
- 14. Siemens—DE (1,211)
- 15. Hewlett-Packard—US (1,170)



PCT Applicants in 2018



Top University PCT Applicants in 2018

- 1. University of California (US)
- 2. Massachusetts Institute of Technology (US)
- 3. Shenzhen University (CN)
- 4. South China University of Technology (CN)
- 5. Harvard University (US)
- 6. University of Texas (US)
- 7. Tsinghua University (CN)
- 8. Seoul National University (KR)
- 9. Stanford University (US)
- 10. China University of Mining and Technology (CN)
- 11. Osaka University (JP)
- 12. Johns Hopkins University (US)
- 13. Korea Advanced Institute of Science and Technology (KR)
- 14. University of Tokyo (JP)
- 15. Hanyang University (KR)



Top Government/PRO PCT Applicants in 2018

- 1. Fraunhofer-Gesellschaft (DE)
- 2. China Academy of Telecommunications Technology (CN)
- 3. Commissariat a L'Energie Atomique et aux Energies Alternatives (FR)
- 4. Institut National de la Sante et de la Recherche Médicale (FR)
- 5. National Institute of Advanced Industrial Science and Technology (JP)
- 6. Centre National de la Recherche Scientifique (FR)
- 7. Agency of Science, Technology and Research (SG)
- 8. Shenzhen Institute of Advanced Technology (CN)
- 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. Riken (Institute of Physical and Chemical Research) (JP)
- 13. Sloan-Kettering Institute for Cancer Research (US)
- 14. Electronics and Telecommunications Research Institute of Korea (KR)

Patent System

15. Korea Institute of Industrial Technology (KR)

International Searching Authorities (23)

- 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)



Amendments to the PCT Regulations as from 1 July 2019

PCT Rule Changes

- Amendment to PCT Rule 69.1(a)
 - □ Allows the IPEA to start the international preliminary examination when:
 - it is in possession of the demand, relevant fees, ISR and written opinion;
 - unless the applicant expressly requests the IPEA to postpone the start of the examination until expiration of the time limit for filing a Chapter II demand (Rule 54bis.1(a)) (as opposed to starting examination only once that time limit has expired)
 - ☐ Effective for demands made on or after July 1, 2019



PCT Assembly 2019

Agreed:

- new Regulation amendment proposals:
 - ➤ permit incorporation by reference of correct elements or parts of IAs in case of <u>erroneously filed</u> elements and parts (as opposed to existing Rules on <u>missing</u> parts) (<u>PCT/WG/12/9</u>) [New Rules 20.5bis & 40bis]]
 - ➤ IPEAs to be required to copy certain documents in their files to the IB, which would make them available to the public on behalf of elected Offices (will increase the transparency of the international preliminary examination) (PCT/WG/12/12)
 - ➤ permit correction or addition of Rule 4.11 indications (on kind of protection sought e.g. parent/child relationship, such as continuation or continuation-in-part for US) (PCT/WG/12/8) [New Rule 26quater]
 - legal basis to permit fee transfers via the IB (enabling future centralized payment) (PCT/WG/12/20)
 - excuse of delay in meeting time limits because of Office electronic system unavailability (due to unforeseen Office system outages or scheduled maintenance) (PCT/WG/12/17) [New Rule 82quater.2]
- Amendments will enter into force generally on July 1, 2020 PCT The International Patent System

PCT WG 2019

- Not agreed:
 - proposed fee reduction for universities
 - proposal to give all PCT applicants choice of all ISAs
 - Further work will be done on these two proposals
- Noted Progress reports on:
 - ■IP5 Collaborative Search and Examination Pilot
 - Netting of PCT fees
 - PCT sequence listing standard
 - □ PCT online services
 - □ PCT Minimum Documentation
- User groups attending:
 - DAPAA, AIPPI, FICPI, EPI, I3PM, UNION-IP, JIPA,
 JPAA

 The International Patent System

PCT Minimum Documentation Task Force: state of play?

- PCT Minimum Document Task Force:
 - □ Objective A: updated inventory of patent collections, expected to be published in coming months
 - □ Objectives B & C: significant progresses made on the legal requirements and technical requirements for a patent collection to belong to the PCT Minimum Documentation
 - □ Objective D: inclusion of NPL and TK-based prior art: questionnaire launched by the USPTO (leader on this objective) Minimum Documentation task Force :
 - For further details, see Documents PCT/WG/12/16 and PCT/WG/12/25
 - Further discussions expected at MIA 2020





Recent developments

Recent Developments: Overview

- Color drawings
- Use of fax at the IB
- PATENTSCOPE / WIPO Pearl / Patent Register Portal
- Collaborative Search & Examination Pilot
- PCT and PPH
- IP Portal



Practical development: color drawings (1)

- IB has implemented an "interim solution" on color drawings in PCT applications:
 - □ Electronic applications filed with ROs using ePCT-Filing (or PCT-SAFE for RO/IB) can indicate that the application as uploaded contains color images
 - This indication triggers a notification on the front page of the published application that the originally-filed application contains color drawings which are available for download from PATENTSCOPE
- may be helpful for DOs which accept color drawings, although:
 - the legal PCT requirement still has not yet changed
 - □ color images or greyscale will be converted by the IB to black & white and published that way in the officially published version of the application
 - □ DOs may still require black & white in the national phase

Practical development: color drawings (2)

- the interim practice's purpose is not to encourage the use of color images but to recognize that many IAs do in fact contain color images and allow/assist DOs which accept them to more easily access them
 - eventual goal is to have full color processing through international phase and into national phase, and adapted legal requirements

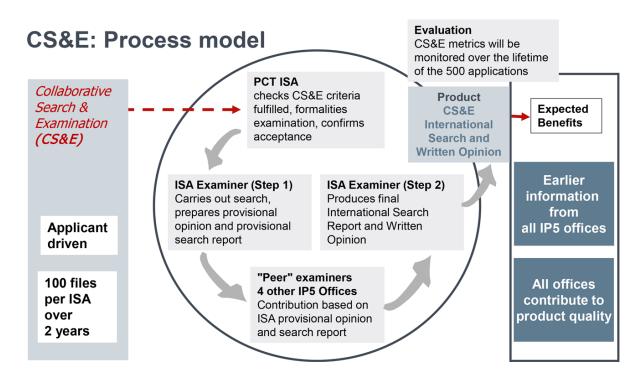


Practical development: contingency upload

- Providing an alternate means for submitting documents and filing applications without having to use ePCT or for use in the exceptional situation that ePCT is not available
 - https://pct.wipo.int/ePCTExternal/pages/UploadDocument.xhtml
 - □ Allows uploading of PDF documents without having to sign into a WIPO account—you provide email address which is validated, then get a link to the service. You upload the document(s) and get an automated confirmation of receipt
- WIPO continues to strongly encourage use of ePCT for filing and submitting subsequent documents
- Demo version of the contingency service available for testing

Collaborative search & examination

- 3rd pilot on a collaborative search & examination
- IP5 Offices (EPO, USPTO, JPO, SIPO, KIPO)
- 100 files per Offices over the first two years



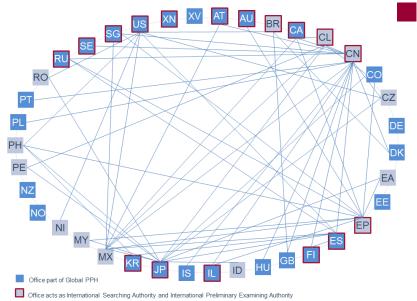


Patent Prosecution Highway (PPH) and PCT

 Accelerated examination in the national phase based on a positive work product of an International Authority (written opinion of the ISA or the IPEA, IPRP (Chapter I or II))

Conditions:

□ At least one claim has been determined by the ISA or the IPEA to meet the PCT criteria of novelty, inventive step and industrial applicability; and

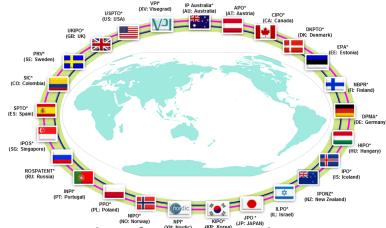


ALL the claims must sufficiently correspond to the claims deemed to meet the PCT criteria (they are of the same or similar scope or they are of narrower scope than the claims in the PCT application)



Patent Prosecution Highway (PPH) and PCT

- Global PPH complements existing bilateral PPH agreements
 - ☐ Introduction of Global PPH Pilot in January 2014
 - ☐ Single set of qualifying requirements that simplifies the existing PPH network so that it is more accessible for users
 - ☐ Global PPH includes PCT-PPH
- PCT Website: www.wipo.int/pct/en/filing/pct_pph.html
- Information on the PPH Portal: www.jpo.go.jp/ppph-portal/index.htm



- Information on procedures and forms can be found on the websites of the participating Offices
- The IB requests feedback on experience with PCT-PPH at pct.legal@wipo.int



Thank you for your attention!

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