

# Topic 8: Filing Patent Applications: Examples of Filing in Different Countries and under the Patent Cooperation Treaty (PCT)

WIPO Patent Drafting Course for Patent Agents from the ARIPO Member States and Observer States

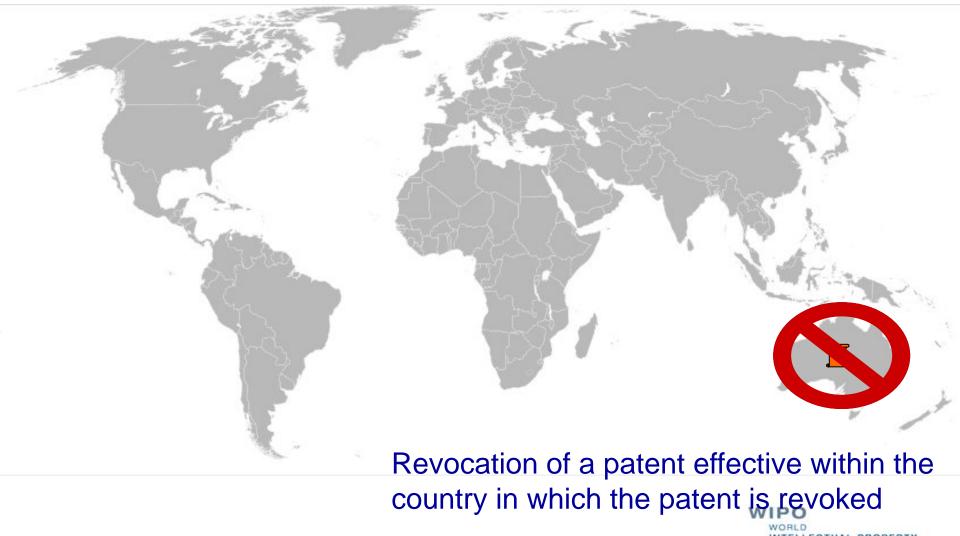
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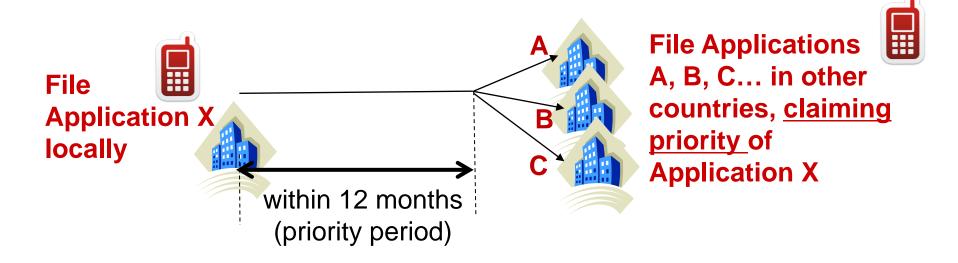
Tomoko Miyamoto Head, Patent Law Section, WIPO

## **Terrritoriality**

Patent rights enforcable within the country in which a patent is granted



## Filing foreign applications – Priority claim



Subsequent applications (A, B, C ...) shall not be invalidated by publications, public presentations etc. of the invention during the priority period

- Based on the Paris Convention (1883) 176 Member States
- During the priority period, applicants may consider in which countries they wish to protect their inventions.



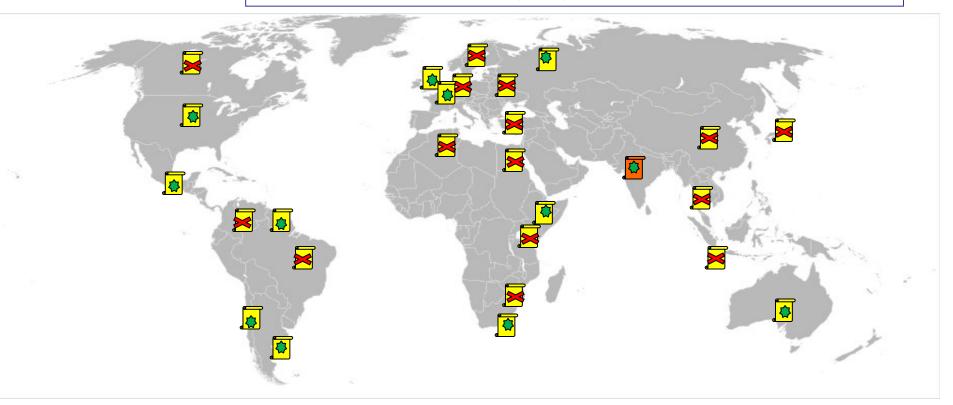
## Seeking patent protection abroad

- Using national patent systems
- Using regional patent systems
  - ARIPO: African Regional Intellectual Property Organization
  - OAPI: African Intellectual Property Organization
  - EPO: European Patent Organisation
  - EAPO: Eurasian Patent Organization
  - GCC: Gulf Cooperation Council Patent Office
- Using the Patent Cooperation Treaty (PCT) system



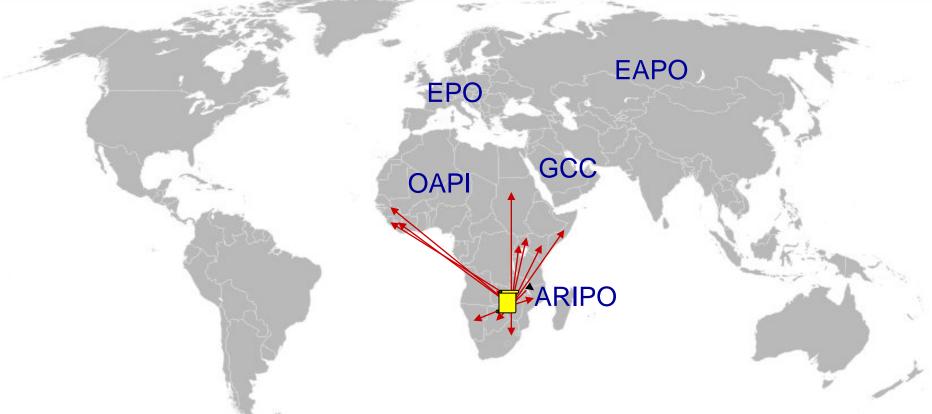
## Using national patent systems

- Different exclusions from patentable subject matter
- Different patentability requirements
- Different Forms, languages





## Using regional patent systems



- Regional patents granted by a regional patent office
  - A regional patent having effect in all member states; or
  - A bundle of national patents (having effect in designated Member States)



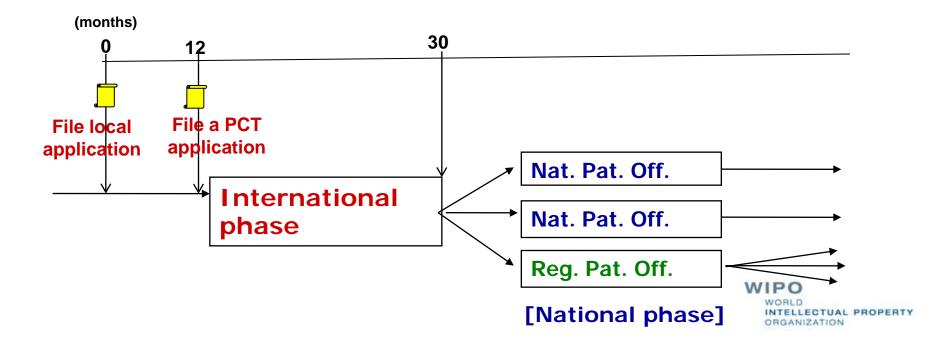
#### Resources

- Directory of national / regional intellectual property offices http://www.wipo.int/directory/en/urls.jsp
- National, regional and international IP laws (WIPO Lex) <a href="http://www.wipo.int/wipolex/en/">http://www.wipo.int/wipolex/en/</a>



## Seeking patent protection abroad

- Using national patent systems
- Using regional patent systems (EPO, EAPO, OAPI, ARIPO, GCC)
- Using the Patent Cooperation Treaty (PCT) system



### 1. Often, before filing a PCT application, a national application is filed.

**PCT** 

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau

#### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> :		(11) International Publication Number: WO 99/03854
C07D 401/04, A61K 31/505 // (C07D 401/04, 239:00, 213:00)	A1	(43) International Publication Date: 28 January 1999 (28.01.99
(21) International Application Number: PCT/EPS (22) International Filing Date: 16 July 1998 (1998) (30) Priority Data: 18 July 1997 (18.07.97) (71) Applicant (for all designated States except AT US): Note Tis AG [CH/CH]; Schwarzwaldallee 215, CH-40 (CH). (71) Applicant (for AT only): NOVARTIS-ERFINDUNGE WALTUNGSGESELLSCHAFT MBH [AT/AT]; Strasse 59, A-1235 Vienna (AT). (72) Inventors; and (75) Inventors/Applicants (for US only): ZIMMERMAN [CH/CH]; Ahornweg 622, CH-4323 Wallbach (CI TER, Bertrand [FR/FR]; 6, rue des Pins, F-68220 (FR). BÜRGER, Hans, Michael [DE/CH]; Maieng CH-4123 Allschwil (CH). (74) Agent: BECKER, Konrad; Novartis AG, Patent- und abteilung, Lichtstrasse 35, CH-4002 Basel (CH).	CONOVAR 58 Bas Brunn NN, Jür H). SUT Hésingu	BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GB, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MV, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIP patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasia patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Europer patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GI, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CC, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  Published  With international search report.  Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt amendments.

File local application

0 (months)

File a PCT application Int. search report & written opinion by ISA

<sub>1</sub>16

International publication

18

(optional) File demand for int. preliminary exam.

**22** 

(optional) Int. preliminary report on patentability (Chapter II)

28

30

### 2. A PCT application filed.



#### **PCT**

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau

#### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: WO 99/03854 (11) International Publication Number:  $\mathbf{A1}$ C07D 401/04, A61K 31/505 // (C07D 28 January 1999 (28.01.99) (43) International Publication Date: 401/04, 239.00, 213:00) PCT/EP98/04427 (21) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, (21) International Application Number: BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, 16 July 1998 (16.07.98) GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, (22) International Filing Date: LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO (30) Priority Data: patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian 18 July 1997 (18.07.97) CH 1764/97 patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, (71) Applicant (for all designated States except AT US): NOVAR-CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). TIS AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH). (71) Applicant (for AT only): NOVARTIS-ERFINDUNGEN VER-Published WALTUNGSGESELLSCHAFT MBH [AT/AT]; Brunner With international search report. Before the expiration of the time limit for amending the Strasse 59, A-1235 Vienna (AT). claims and to be republished in the event of the receipt of amendments. (72) Inventors; and (75) Inventors/Applicants (for US only): ZIMMERMANN, Jürg [CH/CH]: Ahornweg 622, CH-4323 Wallbach (CH). SUT-TER, Bertrand [FR/FR]; 6, rue des Pins, F-68220 Hésingue (FR). BÜRGER, Hans, Michael [DE/CH]; Maiengasse 28, CH-4123 Allschwil (CH). (74) Agent: BECKER, Konrad; Novartis AG, Patent- und Markenabteilung, Lichtstrasse 35, CH-4002 Basel (CH). (54) Title: CRYSTAL MODIFICATION OF A N-PHENYL-2-PYRIMIDINEAMINE DERIVATIVE, PROCESSES FOR ITS MANU-

(54) Title: CRYSTAL MODIFICATION OF A N-PHENYL-2-PYRIMIDINEAMINE DERIVATIVE, PROCESSES FOR ITS MANUFACTURE AND ITS USE

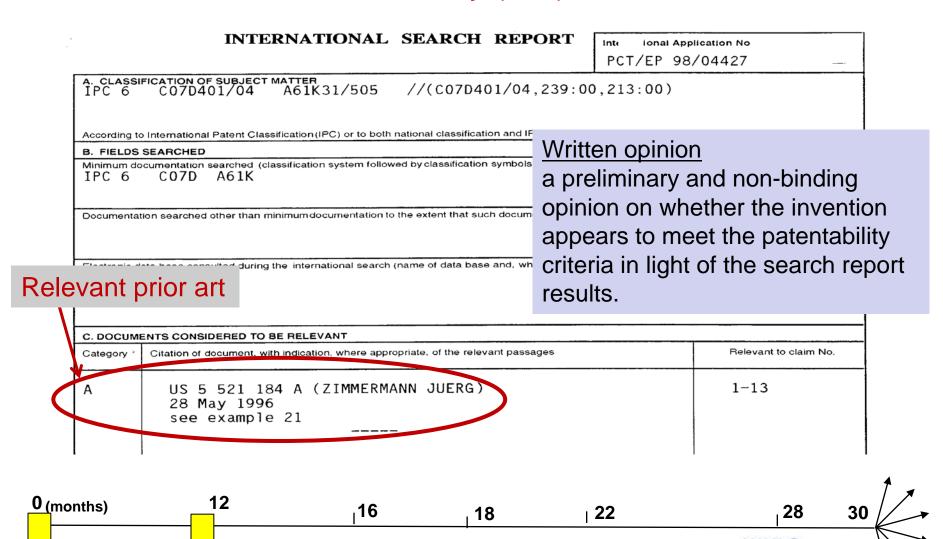
0 (months) <sub>-</sub>16 28 30 18 22 Int. search report (optional) International (optional) File local File a PCT & written opinion publication File demand for int. Int. preliminary report of application application by ISA preliminary exam. patentability (Chapter II)

### PCT international application

- Filing one "international" patent application has the same effect as filing national applications in 148 PCT Contracting States
- <u>In general</u>, an applicant may file a PCT application with its national office or WIPO. If permitted by the national law, possibility of filing with a regional patent office (applicants who are nationals or residents of the ARIPO MSs may file a PCT application with ARIPO).
- Possibility of 90% reductions of certain fees for LDC applicants and for a natural person from developing countries.



## 3. International search report and written opinion prepared by an International Search Authority (ISA)



International

publication

(optional)

File demand for int.

preliminary exam.

(optional

Int. preliminary report on

patentability (Chapter II)

Int. search report

& written opinion

by ISA

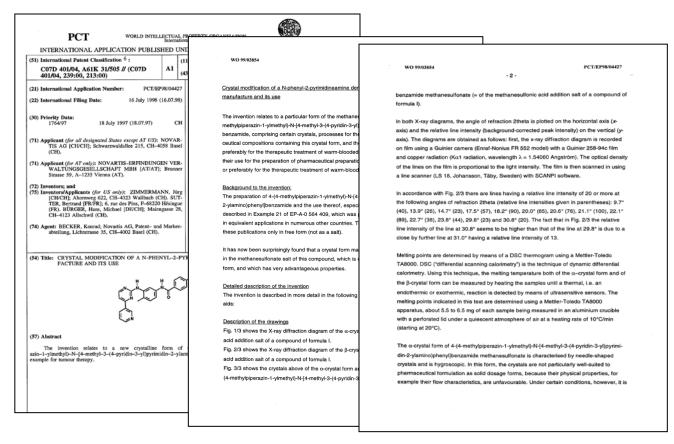
File local

application

File a PCT

application

## 4. The PCT application and the international search report published on the WIPO PATENTSCOPE website.



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(optional) Int. preliminary report on patentability (Chapter II)

File local application

File a PCT application Int. search report & written opinion by ISA

**International** (optional) publication

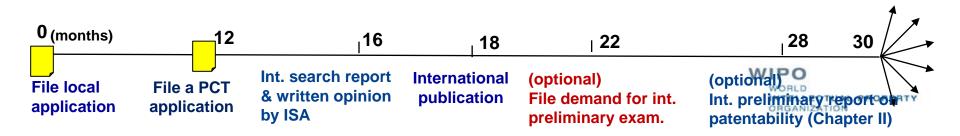
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- 5. [OPTIONAL] An applicant may request an international preliminary examination by an International Preliminary Examining Authority.
  - An applicant has an opportunity to amend the claims, description and drawings.

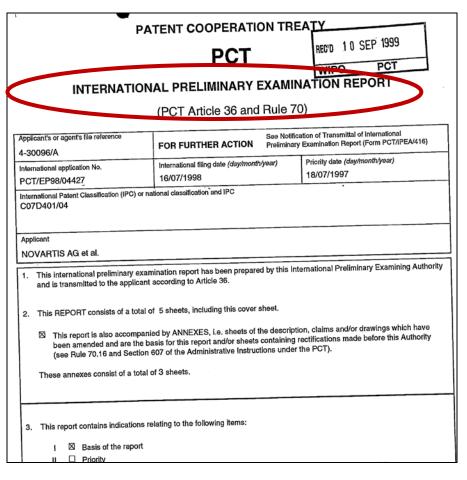
ex.

Claim 1 as filed: A form of the **methanesulfonic** acid addition salt of a compound of formula *I*, comprising crystals of the β-modification.

Claim 1 as amended: A form of the monomethanesulfonic acid addition salt of a compound of formula I, comprising at least 90% by weight crystals of the β-modification, said crystals of the β-modification being non-hygroscopic and remaining essentially dry in a glass climatic chamber at 25°C and relative humidifies up to and including 93%.



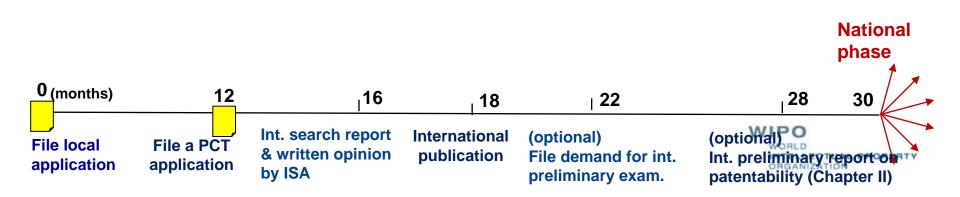
## 6. An international preliminary examination report is prepared and sent to the applicant and WIPO (→ to national offices).



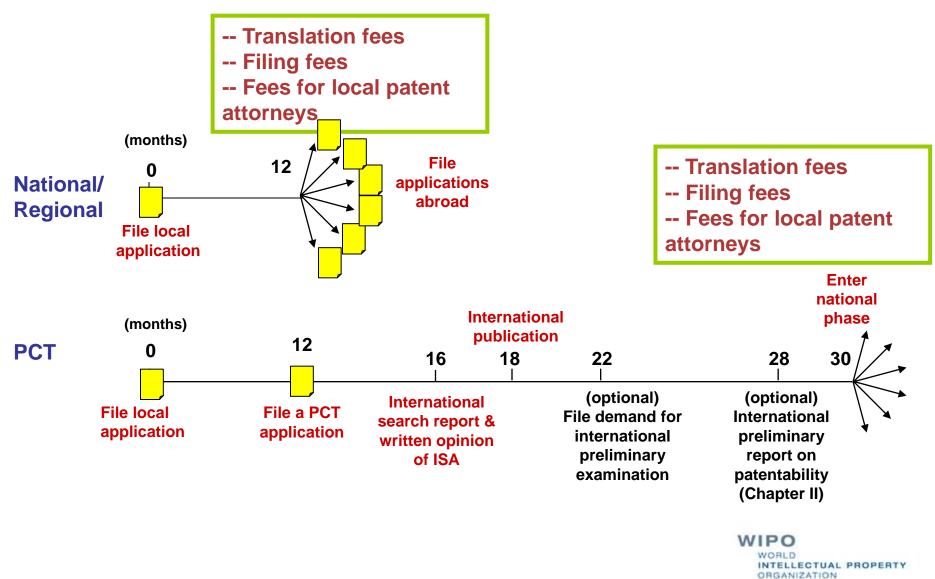
- A preliminary and non-binding opinion
  - Novelty
  - Inventive step
  - Industrial applicability
  - Other defects (ex. nonclarity of claims, claims not supported by the descriptions)



- 7. The applicant decides whether, and with respect to which countries, he wishes to proceed with the international application.
  - Typically, the applicant must pay national fees and, in some cases, file translations with the national offices.
  - Each national office determines whether it grants patent or not, based on the substantive patentability requirements under its law.
    - The international search report & written opinion (and the international preliminary examination report, if any) facilitate, but does not bind, the examination at the national phase.



## National/regional patent application vs. PCT international application



## **PCT: Advantanges**

- One application has the same effect of filing patent applications in 148 countries.
- Postpone the major costs associated with seeking patent protection internationally
  - Translations
  - Fees
  - Local patent attorneys
- Provide a basis for patenting decisions
  - International search report and written opinion
  - (optional) International preliminary report on patentability II
- Better business prospect and geographical coverage



## Contact and assistance

## <u>PCT</u>

Further information: <a href="http://www.wipo.int/pct/">http://www.wipo.int/pct/</a>

- PCT Distance Learning Course (4h)
- Learn the PCT Video Series

General questions: pct.infoline@wipo.int



## Thank you

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