The Japan Patent Office
Cooperation for Developing Countries

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Deputy Director,
Information System Division
Japan Patent Office

Oct 2013
I. Overview of the JPO Support
I. Overview of the JPO Support

Support Scheme for Developing countries

1. JPO
   Financing and organizing activities

2. Cooperation with WIPO
   (World Intellectual Property Organization)
   Organizing activities under the WIPO Japan Funds-in-Trust

3. Cooperation with JICA
   (Japan International Cooperation Agency)
   Financing and implementing technical cooperation projects
   Such as office modernization & HRD.
Ⅱ. WIPO Japan Funds-in-Trust

Since 1987

FIT: CHF 1,100,000

Since 2008

Self-sustaining economic development in Africa through IP
### Japan Funds-in-trust (FIT) Objectives

<table>
<thead>
<tr>
<th>Objective</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Raising awareness</td>
<td>on the importance of IP systems for economic and technological development</td>
</tr>
<tr>
<td>✓ Assistance in Establishing &amp; Strengthening</td>
<td>IP law and Institutions</td>
</tr>
<tr>
<td>✓ Supporting development of human resources</td>
<td>in the field of intellectual property</td>
</tr>
</tbody>
</table>
### Example of Workshops and Seminars under the FIT for Africa

<table>
<thead>
<tr>
<th>Country</th>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenya</td>
<td>Jun. 2013</td>
<td>“Workshop on Innovation and Climate Change in Africa: Advancing Knowledge, Technology, Policy and Practice”</td>
</tr>
<tr>
<td>Tanzania</td>
<td>Jul. 2013</td>
<td>“Technology and Innovation Support Center (TISC) Meeting on Developing the TISC Project and Innovation Support through Access to Technological Knowledge”</td>
</tr>
<tr>
<td>Cameroon</td>
<td>Aug. 2013</td>
<td>“Sub-regional Workshop and Training Course on the IP Management and the Formulation and Implementation of Results-Based IP Office Plans”</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>Oct. 2013</td>
<td>“WIPO Regional Training Workshop on IPAS for African Member States”</td>
</tr>
</tbody>
</table>

...and many more events are coming
References

- JPO Homepage
  http://www.jpo.go.jp/index.htm
- JPO Human Resources Development (Training Courses)
- Information on Foreign Industrial Property Systems
  http://www.jpo.go.jp/shiryou_e/s_sonota_e/fips_e/mokuji_e.htm
- IPDL
  http://www.ipdl.inpit.go.jp/homepg_e.ipdl
- AIPN
  http://aipn.ipdl.inpit.go.jp/top.html
- WIPO Japan Office
- JICA

If you have any questions, please contact us at e-mail: PA0868@jpo.go.jp
Business Processes and Workflow Design in Intellectual Property

WIPO Regional Training Workshop on IPAS for African Member States
@ Harare (Zimbabwe)
October 14, 2013
JAPAN PATENT OFFICE
1. Aims of Computerization

2. JPO Internal IT Systems

3. Global Utilization of IT Systems

4. Conclusion
Part 1

Aims of Computerization
Aims of Computerization

- Increasing Applications
  - Increasing Difficulty of Application Management
  - Delay in Examination

Public

Publication

IP Office

Applicants

In Person

Mailing

Applications
Aims of Computerization

- Why do we promote Computerization? -

**Computerization results in stable IP system operations**

**IP Office Benefits**

- Guarantee of the accuracy of business operations
- Improvement of the effectiveness of business operations

**User Benefits**

- Improvement of procedural (filing, etc) convenience
- Timely and user-friendly utilization of IP information
Part 2

JPO Internal IT Systems
### History

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1961</td>
<td>Introduction of Computer</td>
</tr>
<tr>
<td>1964</td>
<td>Start of PL Project</td>
</tr>
<tr>
<td>1983</td>
<td>Start of Electronic Filing</td>
</tr>
<tr>
<td>1984</td>
<td>Release of Peripheral system for Patent Examination</td>
</tr>
<tr>
<td>2000</td>
<td>Release of Peripheral system for Design and Trademark Examination</td>
</tr>
<tr>
<td>2005</td>
<td>Start of Optimization Plan</td>
</tr>
</tbody>
</table>

### Organization

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1961</td>
<td>Computerization Research Office was set in the General Affairs Division.</td>
</tr>
<tr>
<td>1964</td>
<td>IT Planning Office and IT Research &amp; Development Office was set</td>
</tr>
<tr>
<td>1983</td>
<td>Headquarter of Paperless Project was established in the General Affairs Division.</td>
</tr>
<tr>
<td>1984</td>
<td>IT Division was founded. (with IT Planning Office, Research &amp; Development Office, Operation Management Office, Administrative System Promotion Office(W1), and Search and Appeal System Promotion Office(W2))</td>
</tr>
<tr>
<td>1994</td>
<td>W2 was abolished and the work was transferred to Patent Information Dissemination Division</td>
</tr>
<tr>
<td>1999</td>
<td>Operation Management Office was abolished. (the section of Operation Management was established directly below the IT division.)</td>
</tr>
<tr>
<td>2001</td>
<td>W1 was abolished. Instead, the administrative adjustment section was established below the IT Planning Office.</td>
</tr>
<tr>
<td>2005</td>
<td>The services and systems Optimization Promotion Office was started.</td>
</tr>
<tr>
<td>2007</td>
<td>The work of IT Division was partly transferred to INPIT.</td>
</tr>
</tbody>
</table>
Outline of JPO Internal IT Systems

IP Information Users
- Inspection Inquiry
- Deposit Inquiry
- Certification Request
- Delivery
- Gazette Inspection
- Document Inspection

One Stop Service
- DB Service, Big Companies

JPO
- Acceptance
- Formality Examination
- Automatic Registration
- Substantial Examination
- Automatic Editing

Applicants
- Internet
- Individuals, Companies, Patent Attorneys etc.
- Foreign Patent Offices
- Data Exchange

General Public
- CD-ROM Gazette, DVD-ROM Gazette, Internet Official Gazette
- Internet

Outsourcing
- IPDL

Foreign Patent Offices
- Data Exchange

Internet
Workflow - Patent -

Applicants

JPO Work

Online Application
Simple Formality Check

Online Notification

Online Inspection

Online Notification

Search information

JPO System

Automatic Formality Check

Automatic Editing

Search of official gazettes etc.

Drafting Assistance System

Automatic Editing

Outside Organizations

Data Entry of paper formed applications (PAPC)

Prior Art Search by the registered search Organization(IPCC etc.)

Management of IPDL System(INPIT) (JAPIO)
Outline of Internet e-filing -Overview diagram-

Conceptual diagram of Internet e-filing

1. **Applicant**
   - Arrange access to a computer and make other necessary preparations

2. **Purchase an e-certificate**
   - File format (PKCS#12)
   - IC card format (PKCS#11)

3. **Download Internet e-filing software**
   - Download
   - Install

4. **Applicant registration**

5. **Fill out an application form**

6. **File an application (Encrypted transmission)**

   - **e-Certificate Certification Authority**
   - **Bridge Certification Authority**
   - **National Center for Industrial Property Information and Training**

   - **JPO**

   - Confirmation
Electronic Filing Trends

Statistics in 2012

- Patent and Utility Model
- Industrial Design
- Trademark
- Appeal

1990

- 43%

2012

- 98%
- 92%
- 82%
- 99%
Flow of Digitization at JPO

1. Application document (Paper)

2. Classification (digitization / Non-digitization)
   - Basic formality check
   - Correction based on electronic data standards

3. Sending a document to be input as data for management of digitization

4. Request for input

5. Input data for management of digitization

6. Delivering data for management of digitization *1

7. Returning a document checked by acceptance section

8. Request for digitization

9. Sending a document checked by acceptance section

10. Delivery of digitalized data

Electronic data standards management section

JPO

Applicant

Outsourced Agency

Payment *2

Demand

11. Digitization

*2 Digitization fee
¥1,200 + ¥700 per page

*1 Data for management of digitization
- Filing number (Application number)
- File name (Document name)
- Filing date
- Type of document (Relevant IP law)
Acceptance System

Applicants

Office Filing Software

Secure network (Internet)

JPO

No.1

No.2

Filing

Dispatch

Request

Inspection

Acceptance System
Record Master System consists of bibliographic data DB and document file DB.

- Bibliographic information
- History information from acceptance of the application to the final action etc.
- Documents submitted from applicants to JPO
- Documents sent from JPO to Applicants etc.

- Basic file
- History file
- Bibliographic file
- Address file
- Process file

- Appeals/Trials
- Registration

- Search
- Substantive Examination
Establishment of automatic formality check

- Filing Application
- Formality is correct?
  - Yes
  - No
    - Auto check
    - Visual check
      - Correction by ex officio
- Notification
- Substantive Examination
Formality Check System (2)

Automatic Formality Check Ratio

(As of 2012)

- Filing
- Intermediate procedures

(request for examination, written argument, written amendment etc.)
Formality Check System (Sample1)

- Screen for File Selection
- Screen for Document Selection for Visual Check
- Select a document
Formality Check System (4)

- Formality Check System (Sample2)

Screen for Visual Check

- Fixed Phrase

- Reference information

- “Insufficient Charges”, “Unpaid”

Invitation
Formality Check System (Sample3)

Fee Charges

Reference information

Screen for Processing

Invitation

Fee Information

Enter
Formality Check System (Sample4)

- make a draft according to the template
- After confirming the layout, go to the screen for processing

Formality Check System (6)
Examination & Search System (1)

Examiner

- Application Document
- Acceptance
  - assignment of classification
  - Prior Art Search by
    the registered search organization
- finding/construction of a claimed invention
  - Search (Prior Art Search) by Examiner
- Drafting and Decision

Search System

- Functions
  - Search:
    - Cluster Search
    - Index Search (FI,F-term etc.)
    - Keyword Search
    - Full text Search
  - Inquiry document
  - Other functions
    a) Inquiry know-how of Search
    b) Function of store document
    c) Function of management classification (update etc.)

Examination Support System

- Drafting Assistance System
  - Management application
    - distribution of application to examination section / examiner etc
  - Support to Drafting and Decision
  - Management of Assignment of classification
  - Management of Prior Art Search by the registered organization

- Classification data Search Report

dialogue with outside organization for prior art search
Basic Search Functions

- Cluster Search
- Index search
  - Single view point (FI, ECLA, USC)
  - Multi view point (F-term)
- Key words search
- Full text search
Examination & Search System (3)

**Cluster search**

1. Database selection (domestic, foreign, NPL)
2. Publication date
3. Query retrieval

Application to be examined

Result
Examination & Search System (3-2)

◆ Patent Classification

- Patent Gazettes
- International Patent Classification
- File Index (FI)

F term

5B285: Information Security of Online System

CA00 method of protect
  - CA01 setting a level of authority

AA00 purpose of protect
  - AA01 to prevent unauthorized use
  - AA02 digital rights management

Annualy: 400 thousand of gazettes
Total: 35 million of gazettes
Screening documents list
Screening (text mode)

hit word

image/text

spectrum bar
Examination & Search System (6)

◆ Target DBs and Documents for Search

- Domestic Patent Documents

- Foreign Patent Documents

- Non-Patent Literature
  Computer Software DB (CSDB), Selected Non-Patent Literature

- DNA Sequence Data DB
  GenBank (US), EMBL (EP), DDBJ (JP), KOBIC (KR)

- Commercial DB
  Thomson Innovation (WPI), STN, J Dream III

- Foreign Office Examination Results
  1) One Portal Dossier
  2) Web-based System
   (European Patent Register (EP), Public PAIR(US), K-PION(KR), CPIS (CN), DPMA Register (DE))
Gazette Editing System

Record Master System
Registration System
Appeal System

Gazette Editing System

Gazette data
Gazette data
Gazette data

CD-ROM Gazette
DVD-ROM Gazette
Internet Gazette
IPDL
Search System

Public Users
Examiners
Information Provision Services

- **DVD-ROM Gazette** (Patent, Utility Model)
- **CD-ROM Gazette** (Trademarks, Design, Appeal Decisions)
- **Internet Official Gazette** (Utility Model, Design, Published Unexamined/International Trademark Applications, Published Registered Trademark Applications)

http://www.publication.jpo.go.jp/utility/do/usr/topmenu?lang=e

- **IPDL**
  
  http://www.ipdl.inpit.go.jp/homepg_e.ipdl

Mar. 1999 - Start of Service
Apr. 2000 - Start of automatic translation

About 93 million documents are stored
Other Systems

Registration System

PCT System (RO, DO)

Appeal System
- Information in case that appeal/trial is requested

Fee Payment Management System

Data Warehouse (DWH) System

Inspection System

etc.
Part 3

Global Utilization of IT Systems
(1) Reduce workload in examination at IPOs
(2) Obtain IP rights overseas quickly and properly

OPD
(One Portal Dossier)
(Mutual Reference to Exam Results)

AIPN
(Advanced IP network)
(Internet-based Service for IPOs presented by JPO)

Quick release of examination results
International contribution to other countries

J-Eng MT functions
The AIPN started on 12 October 2004, it is used more than 60 IPOs around the world.

- Reducing of burdens on applicants
- Reducing of burdens on examiners in foreign offices

AIPN (Advanced Industrial Property Network)
Google Translate

Screen for File Wrapper information

(1) Google Translate pulldown list for language selection

(2) Select language for translation target

(3) A translation result appears
Google Translate

(1) Pulldown menu of languages used in Google Translate

(2) Select language for translation target
PDX -Priority Document Exchange-

Bilateral PDX

WIPO Digital Access Service (DAS)

(As of September 2013)

WIPO (PCT) 2009.4-

KIPO 2009.7-

USPTO 2009.4-

SIPO 2012.3-

Other IP Offices
(AU, DK, ES, FI, GB, SE)
Part 4

Conclusion
Conclusion

- Computerization of the IP Office

1. Internal Work Computerization
   - IP Office
   - Core Data base
   - Dossier
   - IPDL
   - PDX
   - Internet

2. E-Filing
   - Applicant/Attorney
   - Common Application Format
   - E-Filing System

3. Effective Access to IP Information
   - Users
   - Dissemination of IP Information
   - Publication Information
   - File wrapper Information
   - Priority Document
   - Other IP Offices

4. Work Sharing with Other IP Offices
   - Examination Results Exchange
   - Priority Document Exchange
   - - Priority Document Exchange System
   - - Dossier Access System
   - - Exchange of Examination Result System
   - Internet

- Machine Translation

Data Format Standardization

- E-filing System
- Administration System
- Search System
Thank You