

SHARING BEST PRACTICES WORKSHOP ON SMARTER IP OFFICE BUSINESS SERVICES

TOPIC 11

**DIGITIZATION OF IP DOSSIERS, PUBLICATION OF
PATENT SPECIFICATIONS AND STATISTICS**

VIENTIANE, LAO PDR, NOVEMBER 20 TO 24, 2023

MAIN CONTENTS

**DIGITIZATION
OF IP DOSSIERS**

**PUBLICATION
OF PATENT
SPECIFICATIONS**

DIGITIZATION OF IP DOSSIERS

- **Main Government documents on digital transformation:**
- Decision No. 749/QD-TTg of the Prime Minister approving the "National Digital Transformation Program to 2025, orientation to 2030";
- Decision No. 942/QD-TTg of the Prime Minister approving the E-Government Development Strategy towards Digital Government for the period 2021 - 2025, with an orientation to 2030;
- Decision No. 146/QD-TTg of the Prime Minister approving the Project "Raising awareness, universalizing skills and developing national digital transformation human resources until 2025, orientation by 2030";
- Decision No. 411/QD-TTg of the Prime Minister approving the National Strategy for developing the digital economy and digital society to 2025, with a vision to 2030;
- Decision No. 505/QD-TTg of the Prime Minister on National Digital Transformation Day

DIGITIZATION OF IP DOSSIERS

- **What does IPVN digitize?**

Digitization of Registrars

2000 -2019: IPAS
2019-now: WIPO IPAS

Digitization of applications

2000 -2019: IPAS
2019-now: WIPO IPAS

Digitization of lost data

(WIPO supporting from 2016 for server failure problem in 2013)

Digitization of protection titles

2000 -2019: IPAS
2019-now: WIPO IPAS

DIGITIZATION OF IP DOSSIERS

How is digitization implemented according to Vietnamese laws?






1. Scan patent dossiers (applications and documents), convert to electronic versions.
2. Personal digital signature on the electronic copy ensures information including the name of the person making the photocopy and the time the photocopy was made.
3. Data extraction.
4. Issuance of digitized result codes.
5. Save digitized results.

How is digitization implemented at the IPVN?

1. Scan patent dossiers (declaration and documents in the application), convert to photo format.
 - 2. Do not digitally sign on scan documents.**
 3. Data extraction by Optical character recognition technology (OCR).
 4. Issuance of digitized result codes.
 5. Save digitized results in to WIPO IPAS.
- **IPVN does not encrypt digitized results.**

STATISTICS

DIGITALIZATION RESULTS OF IPVN

PROTECTION TITLES		APPLICATIONS	GRANTED
	Invention patents	99,871	34,901
	Utility solution patents	8,406	3,043
	Industrial design patents	56,602	35,932
	Certificates of trademark	755,623	444,382
	Certificates of GIs	170	125

Limitations of OCR:

- Depending on the computer, it will exist a series of images with white dots or black dots so the accuracy is not high.
- Most software and applications containing OCR are only able to accurately identify about 80-90% based on clear images (due to Vietnamese) – mistakes in protection titles and data.
- With accessed images whose background color and text color are quite similar, OCR has difficulty identifying it, and the identification results will not be accurate.

DIGITIZATION OF IP DOSSIERS

• **What causes the limitations of OCR?**

- ❖ Image quality: If the captured image is blurry, blurry, skewed, or too bright or too dark, the OCR software will have difficulty recognizing the writing.
- ❖ Language and font: Some OCR software only supports specific languages and fonts. If the scanned text is not in a supported language or the font is not recognized, the data processing results will not be accurate.
- ❖ Text complexity: If the text is highly complex, for example containing special symbols, charts, tables, OCR software will have difficulty recognizing and processing the data.
- ❖ Install OCR software: If the OCR software is not installed properly or updated to the latest version, the data scanning results will not be accurate.

DIGITIZATION OF IP DOSSIERS

- What difficulties does IPVN encounter in the digitalization process?

- Large number of records, requiring a lot of human resources and machinery equipment to serve the digitization process;
- Many patent applications - thick descriptions, digitization takes a lot of time and requires continuity in the digitization process;
- Regulations on security and privacy when digitizing information;
- Inadequate infrastructure and equipment are barriers;
- Documents have been electronically stored on IPAS, but there are no digital signature yet;



DIGITIZATION OF IP DOSSIERS

Challenges in digitization:

- E- filing system downtime: 01.2023-11.2023
- ❖ E-filing stopped: 23% online applications (76% patent applications): increases the number of documents that need to be digitized.
- ❖ Digitization staffs met difficulty in using new WIPO scan system.
- ❖ Digitization staffs quited job.
- Paper applications filed in this period: not digitized fully.
- Digitize old application documents that have not been digitized before to be included in WIPO IPAS: not applications for establishing IPR.
- Digitize new applications IPVN received in 2023.

DIGITIZATION OF IP DOSSIERS

Challenges in digitization:

1,855,000 pages need to be digitized

- Transfer
- Licencing
- Termination of validity of protection titles
- Invalidation of protection titles
- Amendments to protection titles
- Maintenance of validity of protection titles
- Prolongation of validity of protection titles....

DIGITIZATION OF IP DOSSIERS

IPVN: 19 stores for saving documents



DIGITIZATION OF IP DOSSIERS

Supporting for digitization:

Documents have been digitized in the past but have not yet been digitally signed.

Digitally sign

- Lack of HSM (Hardware Security Module service).

Documents have not digitized because e-filing system downtime in 2023 and documents of other applications

Digitization

- Modern digitizing equipments.
- Software tool that supports automatic digitization (identification, data extraction) into WIPO IPAS .
- Training for employees of the digitization work.

PUBLICATION OF PATENT SPECIFICATIONS

Why must a patent application be published?

- ✓ Publication of a patent application is an important step in the process of registering for patent protection, conducted after IPVN has accepted the form of patent application.
- ✓ Publish a patent application: any third party or related party can know the content of that patent application.
- ✓ Determining the application publication date: for determining the time limit for examining the content of the patent application if the subject so requests.

PUBLICATION OF PATENT SPECIFICATIONS

- **Confidentiality of patent applications before publication (IP Law):**

- ❖ Before patent applications are published in the IP Official Gazette, IPVN shall have to keep confidential information therein;
- ❖ Cadres and public employees of IPVN who disclose information in patent applications shall be disciplined;
- ❖ If the information disclosure causes damage to applicants, they must pay compensations therefor according to the provisions of law.

PUBLICATION OF PATENT SPECIFICATIONS

- **Who can access to information on published valid applications ?**
- Everyone may free access detailed information on the nature of objects stated in the applications published in the IP Official Gazette.
- Everyone may request the IPVN to supply such information and is liable to pay an information supply fee.

PUBLICATION OF PATENT SPECIFICATIONS

- **When is a patent application published?**
- Patent application: 19th month as from the filing date or the priority date, as applicable, or at an earlier time at the request of the applicant.
- Patent application under the PCT: 02 months from the date it is accepted as a valid application and enters the national phase.
- Patent application containing a request for earlier publication: 02 months from the date the NOIP receives that request or the date it is accepted, whichever is later.
- Decision to grant protection certificates: 60 days from the date of Decision.

PUBLICATION OF PATENT SPECIFICATIONS

• Publication A

(Vietnamese)

- Publication of patent applications

LACK OF
FULL-TEXT
DOCUMENTS

• Publication B

(Vietnamese)

- Publication of granted patents

SEARCHABLE
FULL-TEXT
(Supported by
WIPO from 2010
for 1982-2010)

PUBLICATION OF PATENT SPECIFICATIONS

Data	Publication B of granted patents	Publication A of patent applications
Bibliographic data (WIPO Publish, IP Gazette)	✓	✓
Full-text of patent specifications	✓	Not yet
Text of descriptions	✓	Not yet
Text of claims	✓	Not yet

PUBLICATION OF PATENT SPECIFICATIONS

Where are patent applications published?

- Patent applications which have been accepted as being valid by IPVN shall be published in the IP Official Gazette.
- You can find information about patent application publications in the IP Official Gazette at website: <https://ipvietnam.gov.vn/cong-bao-so-huu-cong-nghiep>

The screenshot displays the homepage of the Intellectual Property Office of Vietnam (IPVN). The header includes the logo and name of the office, along with navigation links for Introduction, IP Subject Matters, Administrative Procedures, and Online Public Service. A main banner features a man in a white shirt with the text "Hà Nội,". Below this, there are several news items, including "Announcement of the Minister of Science and Technology's Decision on the Appointment" and "Local administration of Industrial Property activities". A large green arrow points down to a section titled "IP Gazettes", which is part of a navigation menu on the right side of the page. Other menu items include "Annual Report", "IP Research and Training Activities", "IP Representation Services", and "Network of TISCs and IP-HUB in Universities/Institutes".

PUBLICATION OF PATENT SPECIFICATIONS

• Contents of publication of patent applications?

- ❖ Information related to valid applications formality as stated in Decision on acceptance (including the number and date of the Decision).
- ❖ Name and nationality of the inventor.
- ❖ Information related to valid applications (transfer of applications, division of applications, serial numbers of parent applications, etc.).
- ❖ Invention abstracts accompanied with drawings (if any).
- ❖ Date of request of substance examination (if any).
- ❖ Date of request early publication (if any).
- ❖ International patent classification (IPC).
- ❖ Other information (if any).

CÔNG BÁO SỞ HỮU CÔNG NGHIỆP SỐ 427 TẬP A - QUYỀN 1 (10.2023)

- (11) **98086 A** (43) 25/10/2023
(21) **1-2022-00893** (85) 15/02/2022
(22) 12/10/2021 (86) PCT/CN2021/123270 12/10/2021
(30) 202011270984.7 13/11/2020 CN (87) WO2022/0100339 A1 19/05/2022
Ngày yêu cầu thẩm định nội dung: 15/02/2022
(51) **A63F 13/55; A63F 13/42**
(71) **TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED (CN)**
35/F, Tencent Building, Kejizhongyi Road, Midwest District of Hi-tech Park, Nanshan District, Shenzhen, 518057, China
(72) PAN, Jiaqi (CN); YANG, Zefeng (CN)
(74) Công ty Luật TNHH Phạm và Liên danh (PHAM & ASSOCIATES)
(54) **PHƯƠNG PHÁP VÀ THIẾT BỊ ĐIỀU KHIỂN ĐỐI TƯỢNG ẢO, VẬT LƯU TRỮ, VÀ THIẾT BỊ ĐIỆN TỬ**
- (57) Sáng chế đề cập đến phương pháp và thiết bị điều khiển đối tượng ảo, vật lưu trữ, thiết bị điện tử. Phương pháp bao gồm các bước: hiển thị đối tượng ảo mục tiêu và nút hành động ảo trong giao diện hiển thị, nút hành động ảo được tạo cấu hình để điều khiển đối tượng ảo mục tiêu để thực hiện hành động thứ nhất; hiển thị thông tin nhắc thứ nhất trong giao diện hiển thị khi đối tượng ảo mục tiêu nằm trong khoảng kích hoạt của sự kiện tương tác mục tiêu, thông tin nhắc thứ nhất được sử dụng để nhắc thực hiện hoạt động chạm trên nút hành động ảo; và điều khiển đối tượng ảo mục tiêu thực hiện hành động thứ hai trong sự kiện tương tác mục tiêu khi hoạt động chạm thứ nhất được thực hiện trên nút hành động ảo được dò thấy.

PUBLICATION OF PATENT SPECIFICATIONS

• Contents of publication of patent protection certificates?

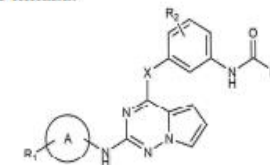
- ❖ Information related to valid applications formality as stated in Decision on acceptance (including the number and date of the Decision).
- ❖ Name and nationality of the inventor.
- ❖ Information related to valid applications (transfer of applications, division of applications, serial numbers of parent applications, etc.).
- ❖ Invention abstracts accompanied with drawings (if any).
- ❖ Other information (if any).

CÔNG BÁO SỞ HỮU CÔNG NGHIỆP SỐ 427 TẬP B - QUYỀN 1 (10.2023)

PHẦN I

SÁNG CHẾ ĐƯỢC CẤP BẰNG ĐỘC QUYỀN

- | | | | |
|----------------------|---------------|------------------------|------------|
| (11) 1-0037078 B | | (15) 25/08/2023 | |
| (45) 25/10/2023 | 427B | (43) 25/11/2019 | 380 |
| (21) 1-2019-04665 | | (85) 22/08/2019 | |
| (22) 19/03/2018 | | (86) PCT/KR2018/003140 | 19/03/2018 |
| (30) 10-2017-0034059 | 17/03/2017 KR | (87) WO2018/169373 | 20/09/2018 |
- (51) **C07D 487/04; A61K 31/53**
- (73) **DAEWOONG PHARMACEUTICAL CO., LTD.** (KR)
35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do 18623, Republic of Korea
- (72) KIM, In Woo (KR); YOO, Ja Kyung (KR); KIM, Ji Duck (KR); JUN, Sun Ah (KR); LEE, Jun Hee (KR)
- (74) Công ty TNHH Tâm nhìn và Liên danh (VISION & ASSOCIATES CO.LTD.)
- (54) **HỢP CHẤT PYROLOTRIAZIN DÙNG LÀM CHẤT ỨC CHẾ KINAZA VÀ DƯỢC PHẨM CHỨA HỢP CHẤT NÀY**
- (57) Sáng chế đề cập đến hợp chất được thể hiện bằng công thức hóa học 1 như được định nghĩa trong bản mô tả, hoặc muối dược dụng của nó. Hợp chất theo sáng chế có thể được sử dụng một cách hữu dụng để ngăn ngừa hoặc điều trị bệnh liên quan đến tác động ức chế kinaza.



Công thức hóa học 1

PUBLICATION OF PATENT SPECIFICATIONS

No	Fees for patent application publication	Fees (VND/application)
1	Fees for patent application publication (1 photo and description under 6 pages)	120.000 (about 5 USD)
2	Each further photo	60.000 (about 2.5 USD)
3	Each further page	10.000 (about 0.4 USD)

PUBLICATION OF PATENT SPECIFICATIONS

❖ Challenges in publication:

- A database describing the single work mode in Publication A has not been created for research purposes.
- No publication full-text patent specification.
- Publication A and B: only Vietnamese.

THANK YOU!

