

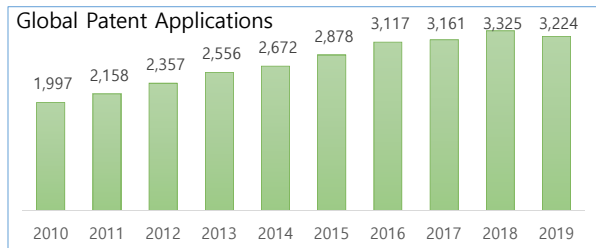
KIPO's plan of establishing and disseminating patent data

PIFC | February 2022



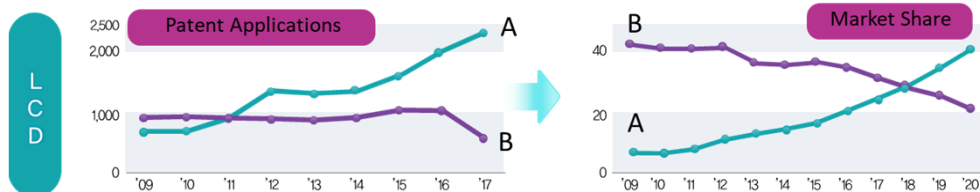
The Value of Patent-related Data

❖ Patents are the result of R&D and a collection of information on the latest global technologies. In addition, patent data is built and managed according to international standards, which enables its effective utilization.



❖ Possible to analyze competitiveness by industry and technical field

ex) Company A's patent applications in the LCD area overtook Company B's in 2011, and 7 years later, in 2018, the market share of these companies has been also reversed.

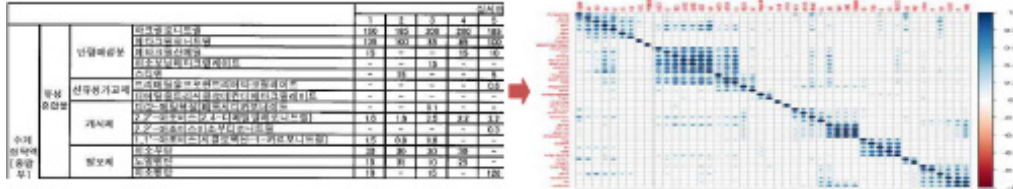


The Value of Patent-related Data

❖ **Fast and efficient R&D support for companies when using experimental data**

ex) Correlation Analysis between composition ratio and properties of compounds

using experimental data from patent literature



❖ **The most valuable intangible asset and value-added creation**

90% of the market value of S&P 500 companies is intangible assets.

* Reference: Intangible Asset Market Value Study (2021.3., Ocean Tomo), Intangible Assets Financial Statement Impact Comparison Report (2019.4., Ponemon Institute)

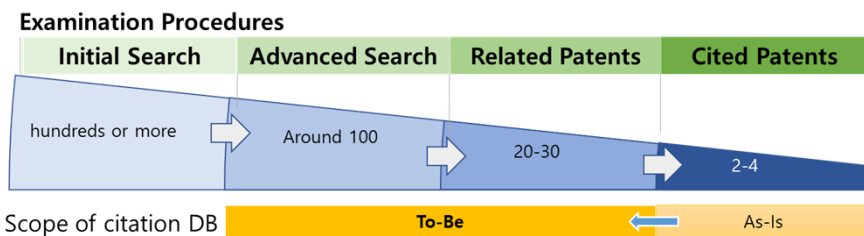


1. Construction of Patent Database for Corporate Valuation and R&D Support

❖ **Expanding scope of citation DB among domestic patent examination procedure information**

(As-Is) Patents cited by the examiner

⇒ (To-Be) Patents browsed and referenced in the examination process

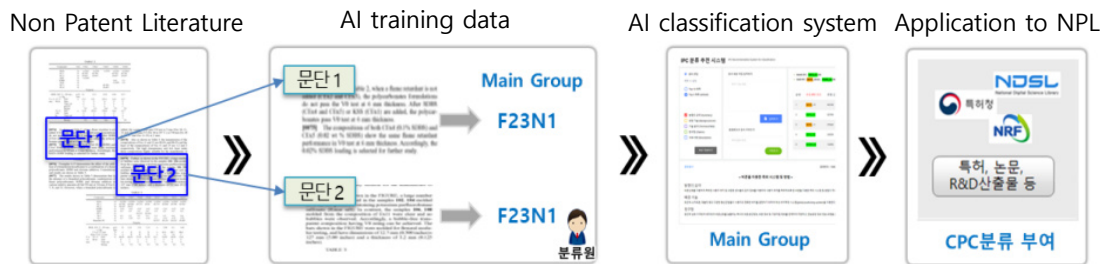


❖ **Building a DB for key indicators to be used for value evaluation**

Building a quantitative data on indicators used for patent valuation, such as the number of citations, family patents, claims, and information on transfer of rights

Construction of Patent Database for Corporate Valuation and R&D Support

- ❖ **Text conversion of experimental data is provided for immediate use in R&D**
Increase R&D efficiency in fields such as vaccines, new drugs, and new materials
- ❖ **Provision of a patent & non-patent literature integrated search environment by assigning CPC codes to non-patent literature**
Developed an AI-based CPC code classification system to automatically assign CPC codes to non-patent literature



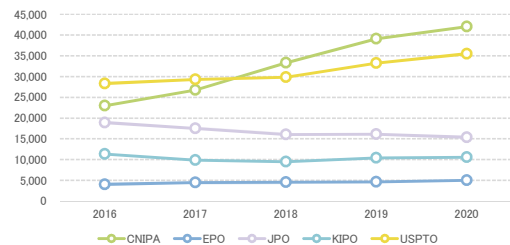
2. Build the Foundation for the Analysis of Patent Competitiveness by industry

- ❖ **A mapping table that interconnects industry standard classification and patent classification to provide a quick way to analyze patent trends by industry**

〈 KSIC-CPC mapping table 〉

| KSIC | CPC |
|------------------------------------|-----------------------------|
| Semiconductor manufacturing | G11C, H01L |
| Electronic Component manufacturing | B05D, B81B, B81C, B82B, ... |
| Computer manufacturing | G06J, G06K, B41J 2/, ... |
| Communication Device manufacturing | G03H, H01P, H01Q, H01S, ... |
| Video Equipment manufacturing | G10L, H03J, H04H, H04N, ... |
| ... | ... |

〈 Patent applications in Semiconductor manufacturing field 〉



- ❖ **DB of key research personnel for each industry**
Establishing a pool of key human resources for each industry by standardizing the inventor information of patents and linking with researcher information in non-patent literature including papers

3. Expanding the Scope of Overseas Patent Data

❖ **Expansion of patent data acquisition in emerging markets and enhancement of usability**

Expanding patent data exchange activities centered on emerging countries and resolving language barriers by providing text conversion and machine translation services for overseas patent data in the form of images.

< Conversion of image data to text >

(71) DONGGUAN BEC PESTICIDES R&D CO., LTD. (CN)
Room 505, Building 2, No.358, Zhen An Road, Chang An Town 1
Guangdong 523771, China
(72) LI Yan (CN); LIN Jian (CN); YAO Wenjiang (CN); WANG Fuping
Fulin (CN); WANG Chuanren (CN)
(54) Công ty TNHH Đại Tín và Liên Đoàn (DAITIN AND ASSOCIATES CO.)
(54) DÂN XUẤT QUINOLIN VÀ CHẾ PHẨM CHỨA NÓ
(57) Sáng chế đề cập tới dẫn xuất quinolin và chế phẩm chứa nó. Cơ chế sáng
sáng của dẫn xuất quinolin có công thức (I) hoặc đồng phân lập thể. N-sơ và
chúng liên thuộc từ dịch hại, cụ thể là chế phẩm trừ dịch hại, trong đó:
R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹² và n là các đại
số trong phạm vi từ 0.



(Applicant) JANSSEN
SCIENCES IRELAND
UNLIMITED COMPANY
(Inventor) LANÇOIS, David
Francis Alain...



< Machine translation service >

PCT/US2017/03082 23.08.2018

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Applicant argues that the nozzle and the web are in a spaced apart relationship, which has not been above-mentioned drawbacks" (D2,

출원인은 D2가 노즐과 웹이 이격된 관계에 있는 동안 노즐을 통해 ... 위에서 언급한 결점의 관점 "(D2, 40009)". 이 주장은 설득력이 없습니다.

❖ **Securing transfer ownership data of domestic and overseas patent**

Extract information related to the transfer of ownership of patent obtained from overseas, add it to the database and use it as basic data for industry-specific patent trend analysis

Thank you!