

PATENT KNOWLEDGE WEEK 2023

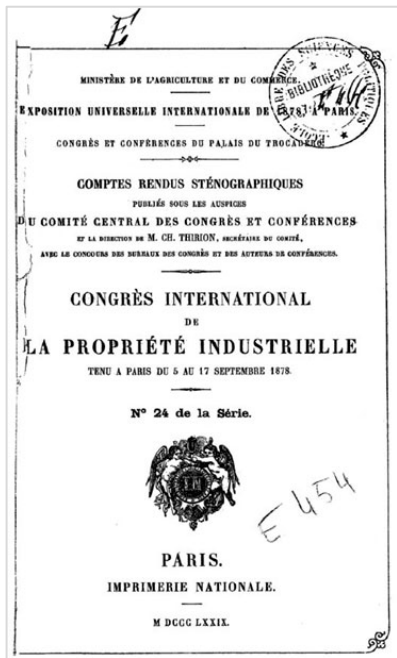
INTERNATIONAL DEVELOPMENTS IN PATENT INFORMATION: PAST, PRESENT, AND FUTURE ACHIEVEMENTS

PAUL SCHWANDER | DIRECTOR IT COOPERATION PARTNERSHIPS | 30 NOVEMBER 2023

FROM THE OUTSET, PATENTS POSSESSED A GLOBAL DIMENSION

THE PARIS CONVENTION

- Nationals of any country of the Union treated equally.
- Right of priority for filing in other countries.
- Each country establishes a central office for the communication to the public of patents.



THE PAPER SEARCH PROCESS



Rechercheur: P.H. SCHWANDER
Date: 9/10/89
N° de la recherche: 89103287

Objet: Procédé de fabrication d'un disque magnétique et disque, auquel on a appliqué les techniques de bord pour éviter le phénomène de fuite de la tête magnétique en repos.

Informations Internes:

- JP 1 7321 Doc. X pour 2 clems
- JP 53 123 306 Doc X
- IBM TDB Vol 24 n° 2 A march 1988 p 5828-29 (cl. 2 seulement)
- JP 60 202 538 (cl. 2 seulement)
- JP 55 52534 Ditts
- JP 57 167 135 Appétito
- DE-A-2 354 506 " " et placés
- DE-B-1 142 443 procédé.

Classification internationale: G11B5/82, G11B5/84, G11B5/82D, G11B23/00, G11B23/00D, G11B23/00D1, G11B23/00D1A, G11B5/60D1, NIPSU G11B5/82, N.P. Fux, N.P. Gsell, N.P. Vitzum.

Europäisches Patentamt
EUROPÄISCHER RECHERCHENBERICHT
Nummer der Anmeldung: EP 89 10 3287

Kategorie	Kennzeichnung des Dokuments mit Angabe, soweit erforderlich, der zugehörigen Tm	Datum	Klassifikation der Anmeldung (in C.I.P.)
X	PATENT ABSTRACTS OF JAPAN vol. 13, no. 172 (P-862)(86D) 24 April 1989, & JP-A-1 7321 (HWA CORP.) 11 Januar 1989, " das ganze Dokument "	1. 2	G11B5/82 G11B5/60
X	PATENT ABSTRACTS OF JAPAN vol. 2, no. 154 (E-78)(1) 25 Dezember 1978, & JP-A-53 123906 (Fujitsu) 28 Oktober 1978, " das ganze Dokument "	1. 2	
X	IBM TECHNICAL DISCLOSURE BULLETIN vol. 27, no. 10A, März 1985, NEW YORK, US Seiten 5828 - 5829; "MAGNETIC DISK WITH STRUCTURED START/STOP TRACK" " das ganze Dokument "	2	
X	PATENT ABSTRACTS OF JAPAN vol. 10, no. 40 (P-835)(217) 11 März 1986, & JP-A-62 202538 (NIPPON DENKI) 14 Oktober 1986, " das ganze Dokument "	1. 2	
A	PATENT ABSTRACTS OF JAPAN vol. 4, no. 80 (P-73)(57) 27 Juni 1980, & JP-A-55 52537 (Fujitsu) 17 April 1980, " das ganze Dokument "	2	RECHERCHTE SACHVERHEIT (in C.I.P.) G11B
A	PATENT ABSTRACTS OF JAPAN vol. 7, no. 10 (P-583)(1156) 14 Januar 1983, & JP-A-57 167135 (NIPPON DENKI) 14 Oktober 1982, " das ganze Dokument "	2	
A	DE-A-236406 (IBM Deutschland) " Seite 4, Zeile 3 - Seite 6, Figuren "	1. 2	
A	DE-B-1172443 (K. H. H. SCHWANDER-TELLER) " Ansprüche 1-3; Figuren "	1	

Ihr vorliegende Recherchenbericht wurde für alle Patentansprüche erstellt

Rechercheur: DEN HAAG
Abteilung der Recherche: 23 OKTOBER 1989
Erster: SCHWANDER

KATEGORIE DER GENANNTEN DOKUMENTE

- X: Ein besonderer Bedeutung zugeordnet
- V: Ein besonderer Bedeutung in Verbindung mit einer anderen Vorrichtung
- A: Technischer Hintergrund
- D: Fachliche Offenbarung
- F: Fachliche Offenbarung

1: Die Erfindung entspricht folgenden Thesen oder Grundthesen


- 1: Keine Patentanmeldung, die jedoch mit einer nach dem Anmeldedatum veröffentlichten werden ist
- 1: In der Anmeldung veröffentlichte Thesen
- 1: In der Anmeldung veröffentlichte Thesen

A: Mitglied der gleichen Patentfamilie, überreichte Dokument

DIGITISING THE COMPLETE PATENT COLLECTION

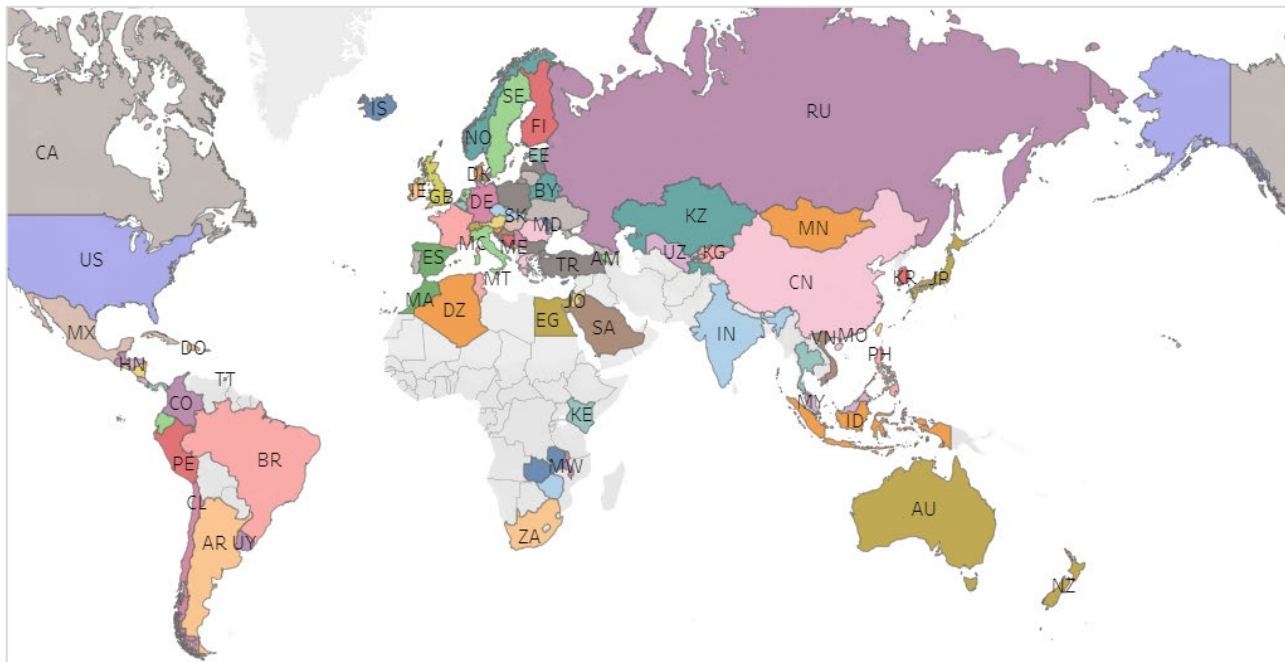
- Need for complete digitisation for online searching.
- All offices shared the same digitisation needs.
- In 1983, the Trilateral Cooperation was set up by the EPO, JPO and USPTO – the three largest offices at the time – to look into ways of solving common automation problems.
- Sharing digitisation efforts amongst offices: e.g. 1986 JPO provides Japanese patent abstracts in English to EPO and USPTO.

PATENT ABSTRACTS OF JAPAN			
(1)Publication number :		2004-164561	
(43)Date of publication of application :		10.06.2004	
(51)Int.Cl.	G06F 3/12 B41J 29/00 B41J 29/38 B41J 29/42 H04H 5/76		
(21)Application number :	2003-123456	(71)Applicant :	SEIKO EPSON CORP
(22)Date of filing :	28.04.2003	(72)Inventor :	HAMAGUCHI YOSHIHARU TORIGOE YUSUKE
(30)Priority	Priority number : 2002279423 Priority date : 25.09.2002 Priority country : JP		
(54) APPARATUS AND METHOD FOR REPRODUCTION CONDITION SETUP, AND REPRODUCTION OUTPUT APPARATUS			
(57)Abstract: PROBLEM TO BE SOLVED: To provide an apparatus and a method for reproduction, which can perform recording processing for communication information from external devices without setup of reproduction conditions and acquire appropriate printing output by switching reproduction conditions using communication protocols of an external device to be connected.			



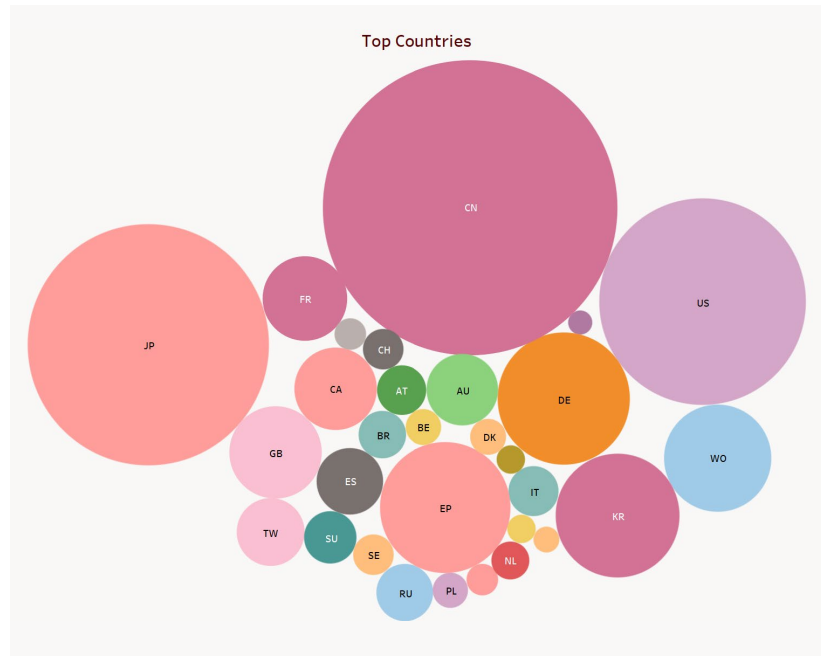
THE PATENT COLLECTION OF THE EPO

106 IP OFFICES – MORE THAN 150 MILLION RECORDS



INTERESTING FACTS ABOUT EPO'S WORLDWIDE PATENT COLLECTION

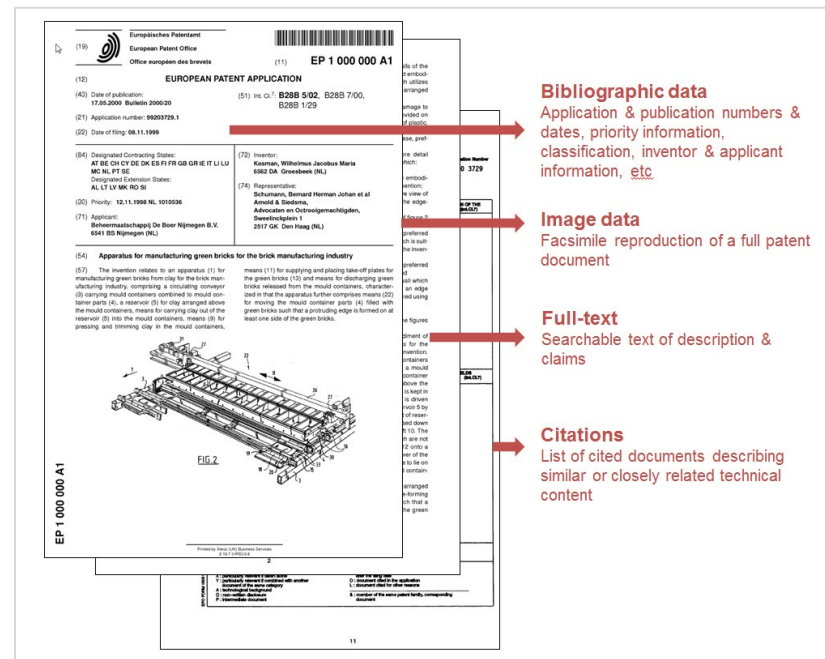
- Asian data representing 52% of all patent data.
- 66% of the patents published in 2022 were Chinese patents.
- 99% of cited patents in search reports from 10 offices: US, WO, EP, DE, GB, FR, JP, CN, CH and CA.



MAIN DATA FLOWS

WHAT PATENT DATA ACQUISITION MEANS

- Patent data acquisition is international and involves various data flows.
- Initially, only bibliographic and image data.
- Today, covers all data attributes of a patent.

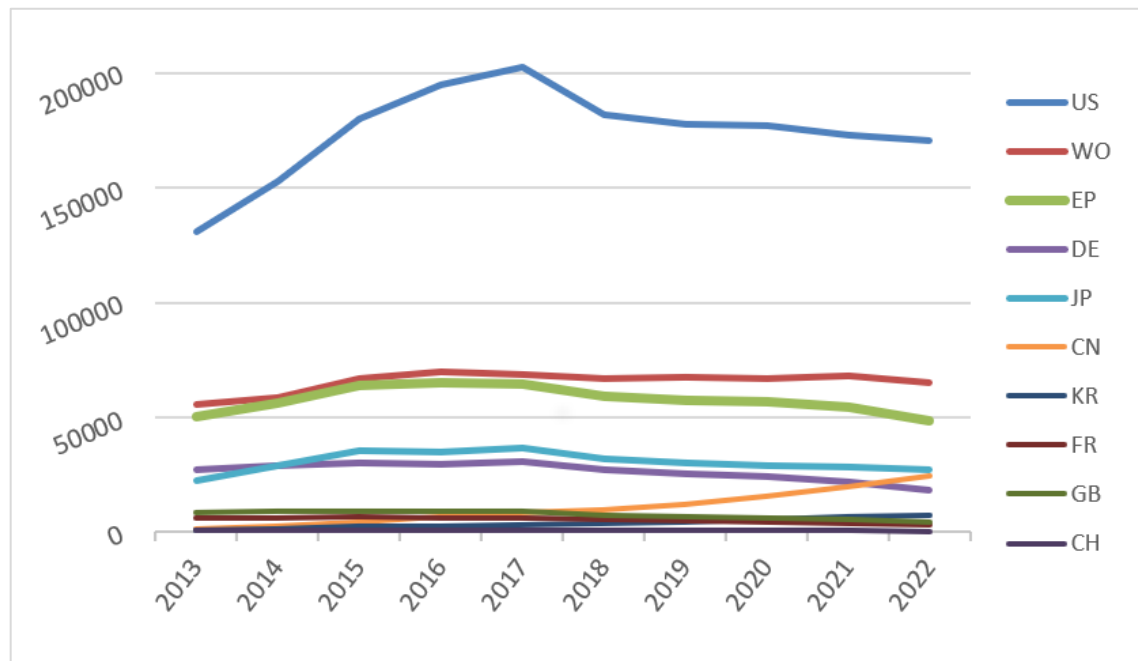


A VITAL DATA STREAM: CITATIONS

- Citations are the most precious data attributes of patent documents.
- Citations of one patent represent ca. one day of examiner work.
- The EPO maintains an extensive worldwide collection of citation data
- 44.3 millions of citing patents.
- 220 000 man-years of work.
- 55 years of work of 4 000 examiners.

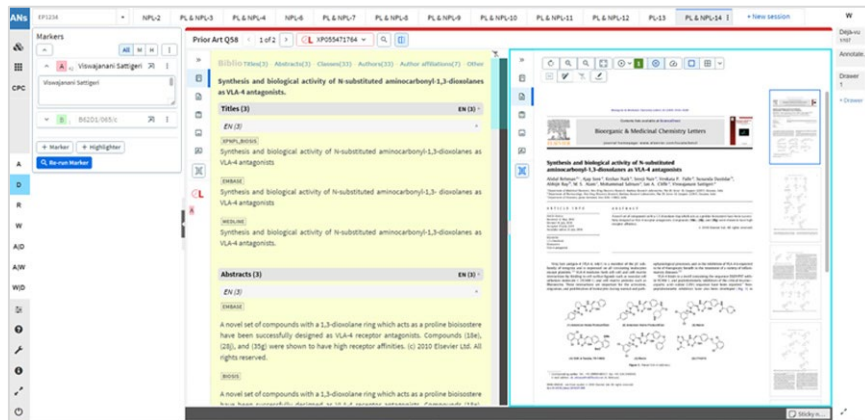
INTERNATIONAL SEARCH REPORT		International application No. PCT/FR2010/052529
A. CLASSIFICATION OF SUBJECT MATTER 1B1 - H02M3/335 ADD.		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELD(S) SEARCHED Minimum documentation searched (classification system followed by classification symbols) H02M H02J		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data bases consulted during the international search (name of data base and, where practical, search terms used) EPO-Internat		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 539 630 A (PIETKIEWICZ ANDRZEJ) [CH] ET AL] 23 July 1996 (1996-07-23) figures 7,15,18,26 column 13, line 50 - column 15, line 16	1-26
A	JP 2001 275361 A (TOKIMEC INC) 5 October 2001 (2001-10-05) cited in the application figure 1 abstract	2,4,8
A	JP 2005 168236 A (SONY CORP) 23 June 2005 (2005-06-23) figures 3-6	11-17, 22,23
	----- -/-	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.
* Special categories of cited documents "X" document containing the general state of the art which is not considered to be of particular relevance "Y" document published prior to or after the international filing date "Z" document which may throw doubts on priority, date(s) or which is cited to establish the publication date of another document or otherwise relevant to the prior art "O" document containing a non-patent document, such as a scientific or technical article, which is cited to establish the prior art "P" document published prior to the international filing date but later than the priority date claimed "S" document member of the same patent family		
Date of the actual completion of the international search 15 April 2011		
Date of mailing of the international search report 27/04/2011		
Name and mailing address of the ISA/ European Patent Office, P.O. Box 5010, Patenkamp 2 NL-1218 ZG, The Hague (The Netherlands) Tel: +31 (0) 79 460 4940 Fax: +31 (0) 79 460 4910		
Authorized officer Despis, Enguerran		

CITATION SHARES AT THE EPO CITATION PATTERNS



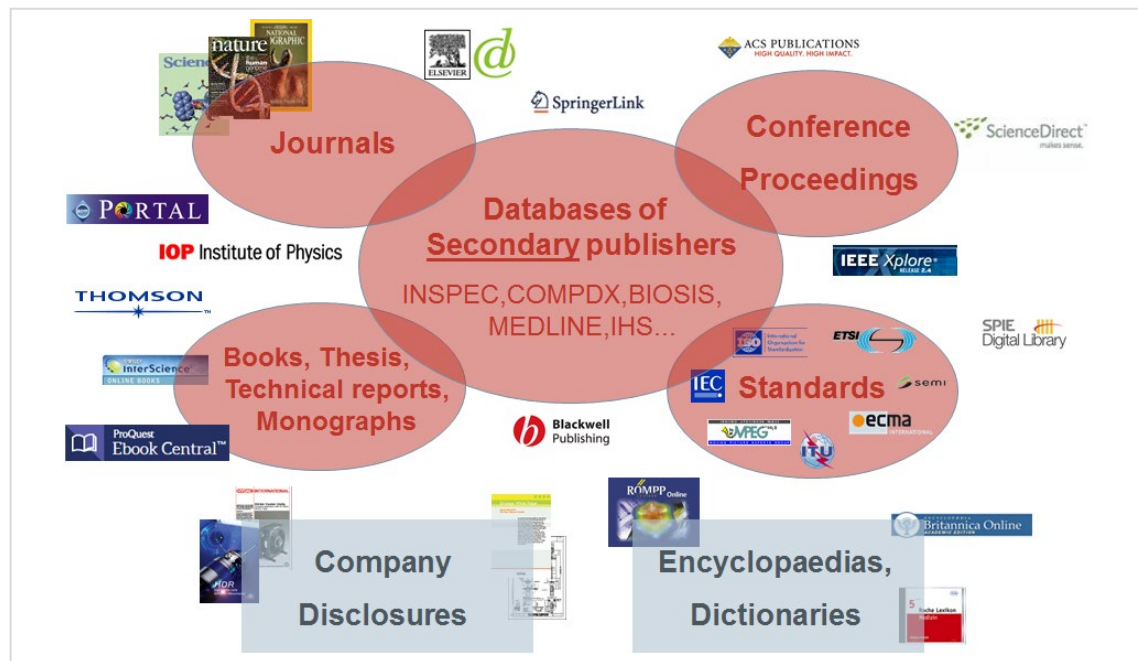
NPL CITATION RATE CITATION PATTERNS

- EPO: 16%
- Other IP5 Offices 4-8%
- Mainly due to the complete integration of the NPL data in the internal EPO search system.



The screenshot displays the EPO internal search system interface. The top navigation bar shows various tabs for different patent classes (e.g., NPL-2, NPL-3, NPL-4, NPL-5, NPL-6, NPL-7, NPL-8, NPL-9, NPL-10, NPL-11, NPL-12, NPL-13, NPL-14). The main content area shows a patent document titled "Synthesis and biological activity of N-substituted aminocarbonyl-1,3-dioxolanes as VLA-4 antagonists." The document includes a summary, a list of titles (3), a list of abstracts (3), and a list of claims (3). The interface also features a sidebar with markers and a search bar.

NPL AND INTERNATIONAL COOPERATION (1/2)



NPL AND INTERNATIONAL COOPERATION (2/2)

SPECIFIC NPL SOURCES WITH A COOPERATION DIMENSION

- Specific acquisition process for certain sources: obtaining the data, making sure those data can be searched and cited.
- Usually for NPL produced and held by public organisations: Standard Developing Organisations, Traditional Knowledge repositories, official documentation.
- The EPO pursues an active acquisition policy for such data.

3GPP

Report of meeting S2-155

SA WG2 Meeting #S2-155-e S2-2303913

17 - 21 April, 2023, Electronic meeting

S2 Meeting #S2-155 DRAFT REPORT

20 - 24 February, 2023, Athens, Greece

Third Generation Partnership Project (3GPP)TM

DRAFT Meeting Report for S2 meeting: #S2-155

Ordinary meeting

Version: v0.6 - Draft with revision-marked comments

Status: Draft for Comment

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3GPP

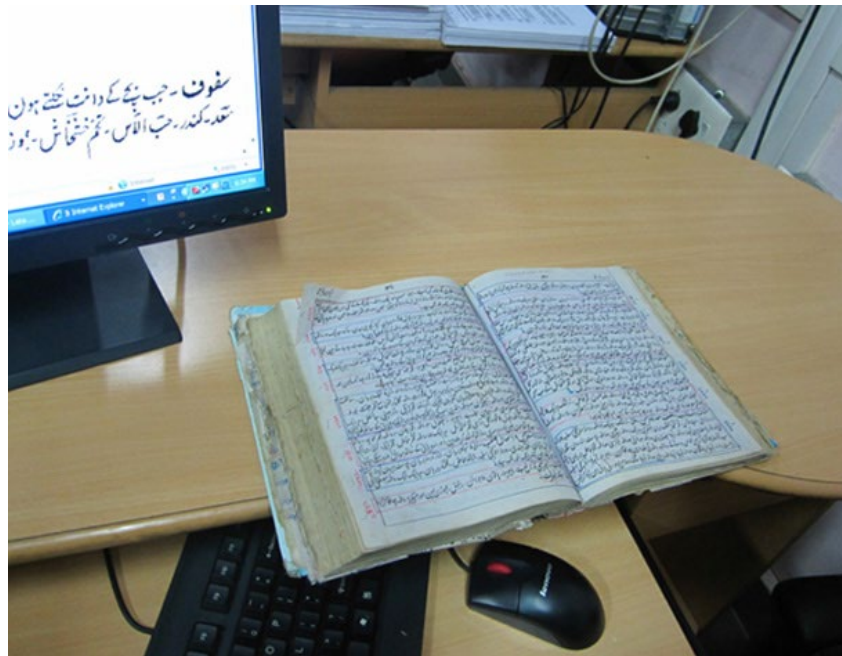
Traditional Knowledge

Key Attributes of TKDL

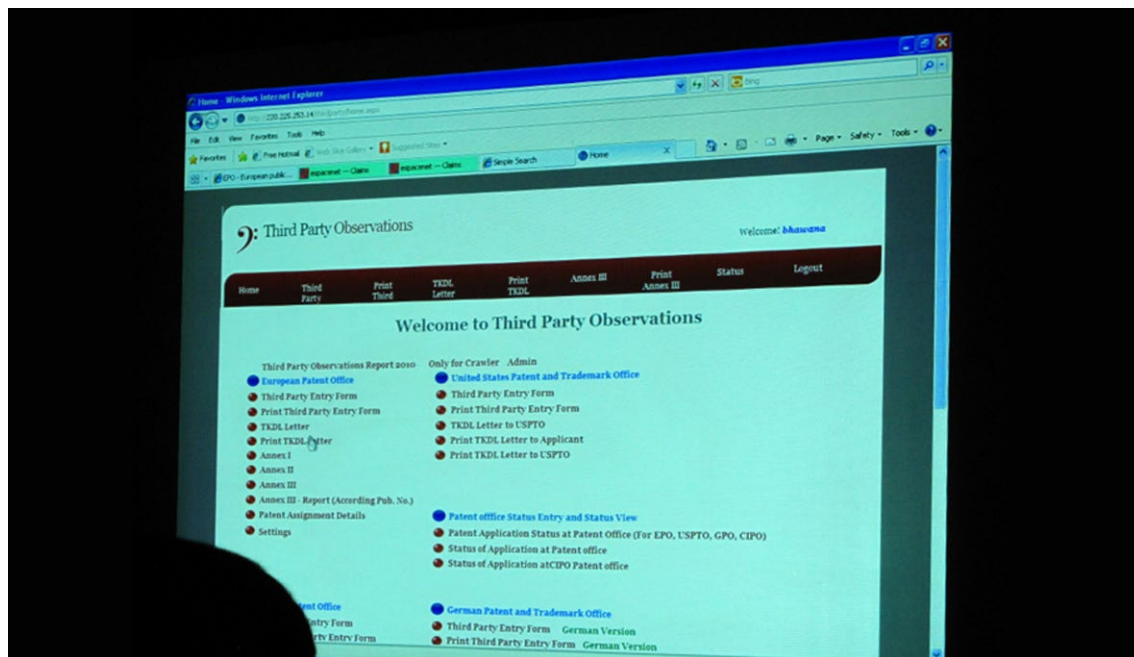
PO195

Title of Traditional Knowledge Resource	Knowledge Since	Known
Saras Kasa Nasaoka Aushadha	100 years	
TKRC CODE :	A01A-1/13, A01A-1/1482, A01A-1/1935, A01A-1/1938, A01A-1/513, A01A-1/784, A01A-3/19, A01A-3/45, A01B-1/37, A01C-1/73, A01C-5/18, A01D-11/07, A01D-11/16, A01D-20/54, A01F-1/1	
IPC Code :	A61K 125/00, A61K 129/00, A61K 131/00, A61K 36/00, A61K 36/185, A61K 36/48, A61K 36/61, A61K 36/67, A61K 36/855, A61K 9/08, A61K 9/20, A61P 11/00, A61P 11/06, A61P 11/08, A61P 11/12, A61P 37/00, A61P 37/02, A61P 37/04, A61P 37/08, C01G 19/00	
DETAILS OF PROCESS / FORMULATION :		
1. Saras Kasa Nasaoka Aushadha is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s) : Tin / Stannum, Piper longum Linn. (Indian Long Pepper, Long Pepper), Terminalia chebula Retz. (myrobalan, black, yellow, brown), Chebulic Myrobalan), Terminalia bellifera (Gaertn.) Roth. (myrobalan, Beleric Myrobalan), Eucalyptus globulus Labill. (Eucalyptus eucalyptus, Tasmanian bluegum), Clerodendrum divaricatum Jack Syn.: C. serratum Spreng. / Clerodendrum indicum (Linn.) O.Kuntze (Turk's Turban, Tube-flower)		
2. Therapeutic composition / formulation is mentioned below :		
1 Tin / Stannum	Purified	3 gm
2 Piper longum Linn. (Indian Long Pepper, Long Pepper)	Fruit	6 gm

THE SPECIFIC CASE OF TKDL (2/3)

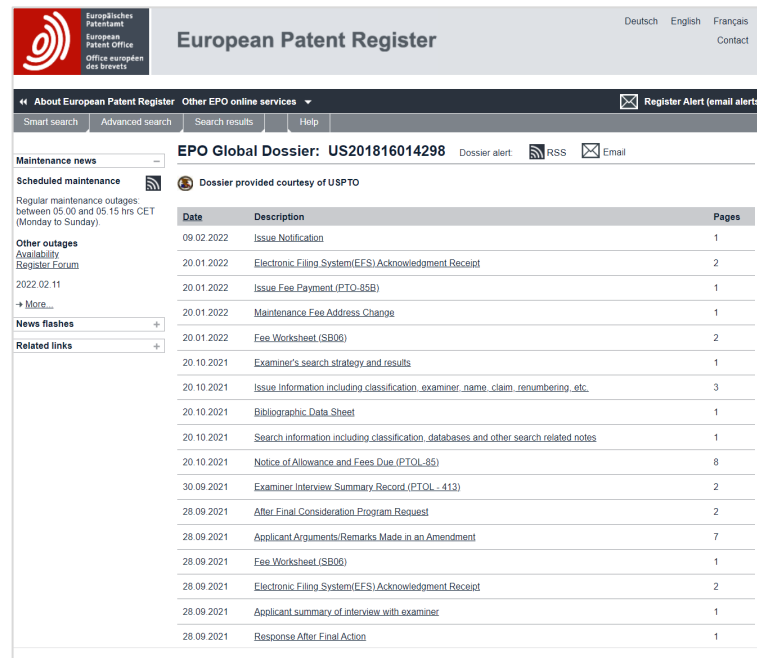


THE SPECIFIC CASE OF TKDL (3/3)



IP5 COOPERATION

- Global Dossier: seamless access to IP5 file wrapper data.
- IP5 Patent Information policy
- The Common Citation Document
- More recently, global IP5 alerting



European Patent Register

Deutsch English Français Contact

← About European Patent Register Other EPO online services Register Alert (email alerts)

Smart search Advanced search Search results Help

Maintenance news

Scheduled maintenance

Regular maintenance outages between 05:00 and 05:15 hrs CET (Monday to Sunday).

Other outages

Availability Register Forum

2022 02 11

→ More...

News flashes

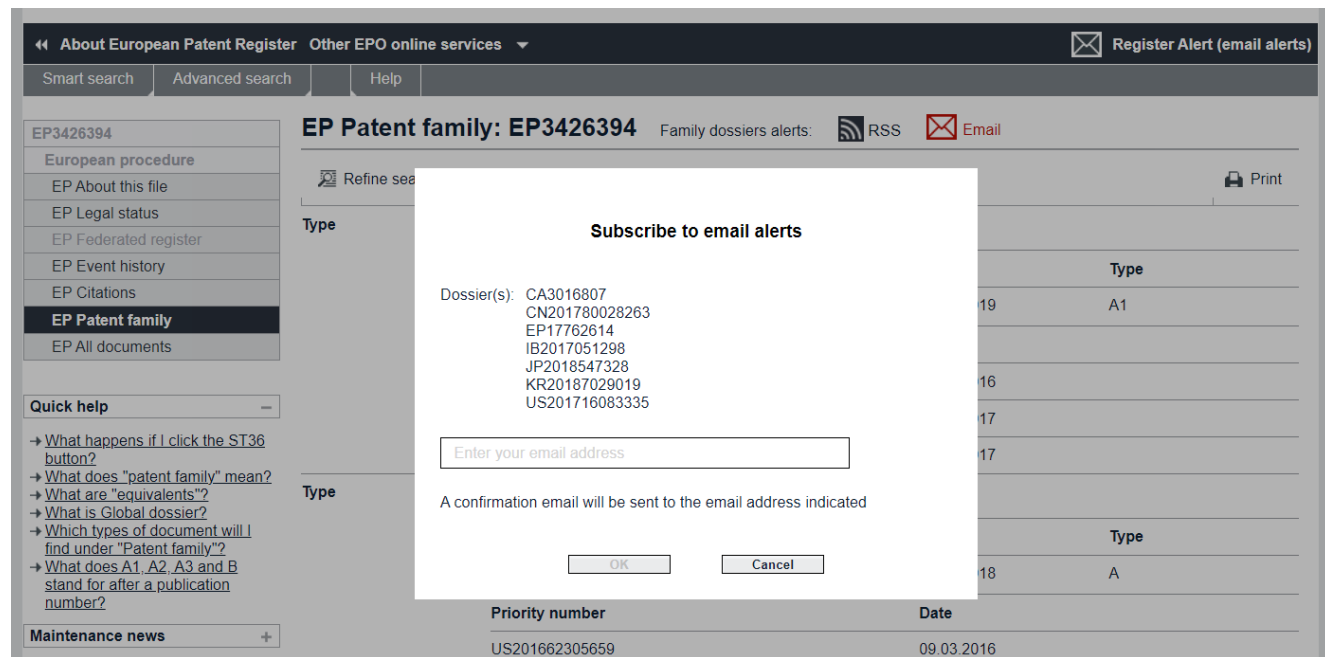
Related links

EPO Global Dossier: US201816014298 Dossier alert RSS Email



Dossier provided courtesy of USPTO

Date	Description	Pages
09 02 2022	Issue Notification	1
20 01 2022	Electronic Filing System (EFS) Acknowledgment Receipt	2
20 01 2022	Issue Fee Payment (PTOL 85B)	1
20 01 2022	Maintenance Fee Address Change	1
20 01 2022	Fee Worksheet (SB06)	2
20 10 2021	Examiner's search strategy and results	1
20 10 2021	Issue Information including classification, examiner name, claim renumbering, etc.	3
20 10 2021	Bibliographic Data Sheet	1
20 10 2021	Search information including classification, databases and other search related notes	1
20 10 2021	Notice of Allowance and Fees Due (PTOL 85)	8
30 09 2021	Examiner Interview Summary Record (PTOL 413)	2
28 09 2021	After Final Consideration Program Request	2
28 09 2021	Applicant Arguments/Remarks Made in an Amendment	7
28 09 2021	Fee Worksheet (SB06)	1
28 09 2021	Electronic Filing System (EFS) Acknowledgment Receipt	2
28 09 2021	Applicant summary of interview with examiner	1
28 09 2021	Response After Final Action	1

SUBSCRIBE TO FILE WRAPPER CHANGES GD ALERTING



The screenshot shows the EP Patent family page for EP3426394. A dialog box titled "Subscribe to email alerts" is open, prompting the user to enter their email address. The dialog box also lists the dossier(s) associated with the patent family and provides a confirmation message.

EP Patent family: EP3426394 Family dossiers alerts:  RSS  Email

Subscribe to email alerts

Dossier(s): CA3016807
CN201780028263
EP17762614
IB2017051298
JP2018547328
KR20187029019
US201716083335

Enter your email address

A confirmation email will be sent to the email address indicated

OK Cancel

Quick help

- What happens if I click the ST36 button?
- What does "patent family" mean?
- What are "equivalents"?
- What is Global dossier?
- Which types of document will I find under "Patent family"?
- What does A1, A2, A3 and B stand for after a publication number?

Maintenance news

Priority number	Date
US201662305659	09.03.2016

REAL TIME LEGAL STATUS SERVICE

IP5 GLOBAL DOSSIER FUTURE TOOLS

- Currently static information available through INPADOC database.
- At this stage explored by CNIPA and the EPO

☆ **CN102946714B** Herbicide-tolerant plants

Bibliographic data Description Claims Drawings Original document Citations **Legal events** Patent family

Data originating from sources other than the EPO may not be accurate, complete, or up to date.

Event indicator ^	Category ^	Event description ^	Countries ^	Event date ^
CN C06	Q: Document publication	PUBLICATION		2013-02-27
CN C10	D: Search and examination	ENTRY INTO SUBSTANTIVE EXAMINATION		2013-04-03
CN GR01	F: IP right grant	PATENT GRANT		2017-10-10

MACHINE TRANSLATION

- The EPO had access to Asian prior art data through abstract databases.
- Industry pressure increased.
- In 2006: commercial availability of MTed full-text collections triggered their acquisition.
- In 2008, the EPO was the first patent office in the world offering MTed full-text data to its examiners

Record patent settlement in China

Managing IP Correspondent April 30, 2009



Schneider and Chint reach a \$23 million deal in utility model patent case

Peter Ollier, Hong Kong

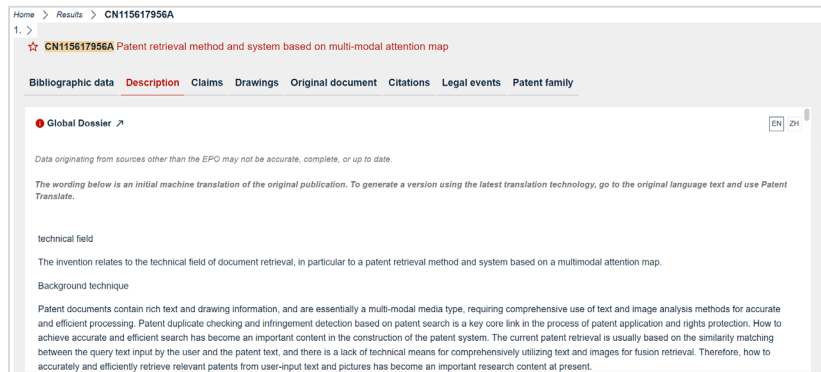
French electronics company Schneider is to pay Rmb157.5 million (\$23 million) to Chinese rival Chint Group to end a controversial patent fight that has alarmed many companies doing business in China.

The record settlement between Schneider and Chint is about half the Rmb330 million (\$48 million) that the Wenzhou Intermediate People's Court awarded to Chint in September 2007, in what is still the largest award for IP infringement ever made by a Chinese court. "It really shows that you have to take warning letters and any patent litigation in China very seriously...you can't take the approach that nothing is ever enforced in China," said Mark Cohen, of counsel for Jones Day in Beijing.

According to a statement by the Zhejiang Higher People's Court on April 15, the two companies have reached "a global settlement in respect of this case". Neither side could disclose details of the settlement, but Liu Daochen, partner of Han Ding United Lawyers in Beijing, which advised Chint in the case, told *Managing IP* that it "reflects a basic position for any further litigation".

EPO MT OFFER MACHINE TRANSLATION

- For our end users: Patent Translate:
ca. 20 000 requests a month.
- EPO examiners have optimal access to
Asian prior art: 60.4 million full-text records
(CN, KR, JP).
- Internal developments providing EPO MT
solutions.
- MT enables a seamless access in English
to the complete prior art collection.



IT COOPERATION ACTIVITIES

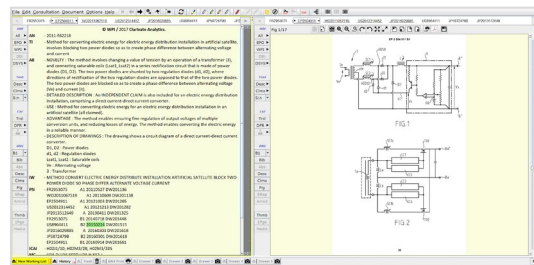
IT COOPERATION PROGRAMME

- The IT Cooperation Programme launched under the Strategic Plan 2023, aimed at improving the efficiency and effectiveness of the patent application process at both member states and the EPO.
- Major achievements in several areas like filing and search tools and data acquisition.
- Close cooperation with NPOs to identify and prioritise their digitalisation needs.

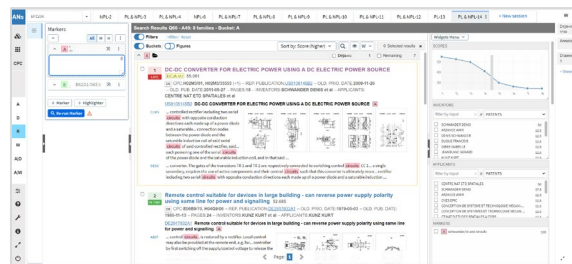


SEARCH

- Replacing the EPOQUE Net legacy search system used by over 2 000 users worldwide
- Leveraging the EPO examiner search tool and data and the latest technical advances for superior searching
- new search system currently used by more than 1 100 examiners from 26 NPOs



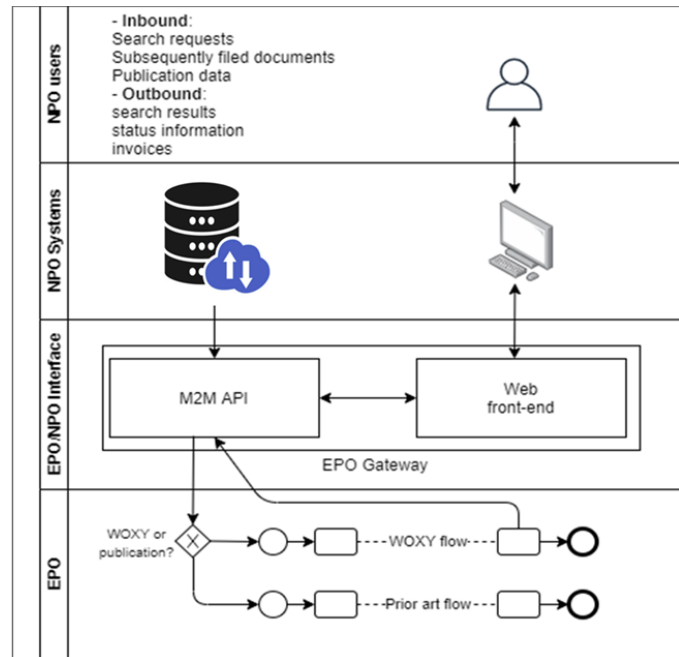
EPOQUE Net



Search

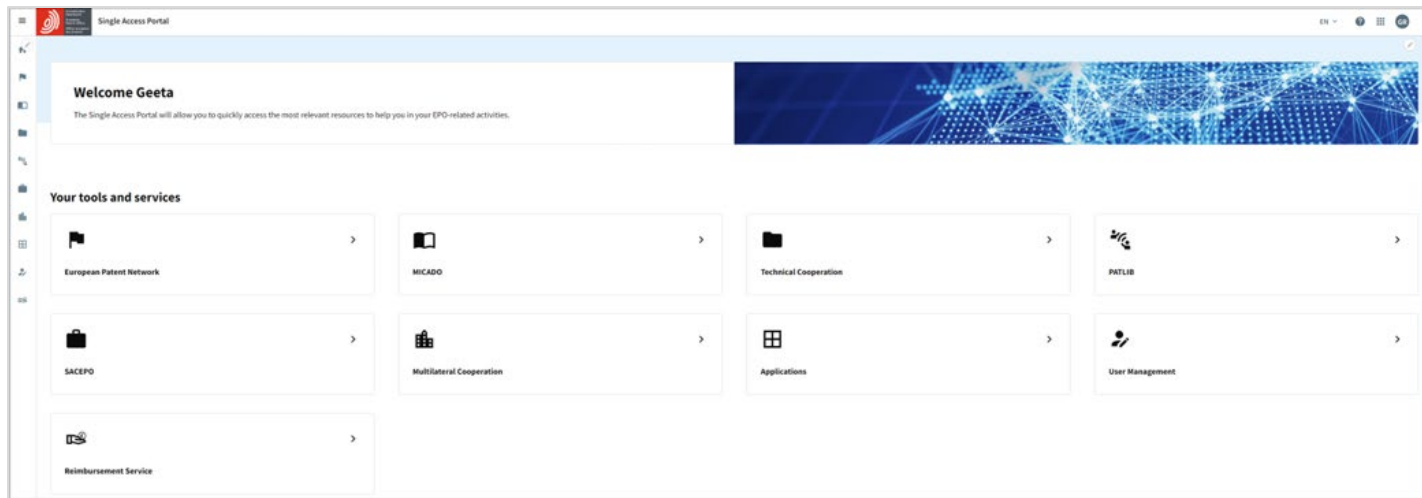
DATA QUALITY

- Patent information and patent document exchanges are corner-stones of the patent system.
- A range of initiatives taken by the EPO and NPOs together to ensure high-quality exchange of patent data between offices in terms of correctness, completeness and timeliness.
- backfile capture: 230 000 new full-text records being added (IT, DK, TR)



SINGLE ACCESS PORTAL (SAP)

- A single access portal for regrouping all available information and EPO-NPO digital interactions
- PATLIB, data exchange platforms, technical cooperation



CONCLUSION

✓ IT cooperation is crucial for the effective operation of the patent system.

✓ Embracing new technologies

✓ Seamless access to global information for end users

✓ The EPO is a leading player: delivers a global patent database supporting other NPOs and end users.

