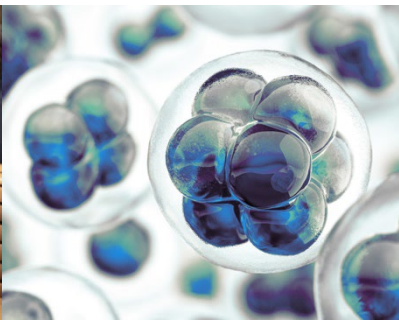


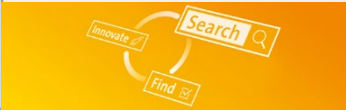
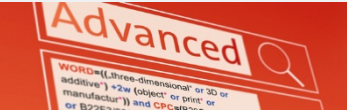
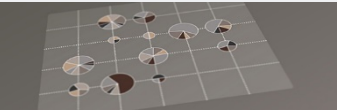
# Make the best out of Global Patent Index (GPI)



# Agenda – GPI 5 key benefits

1. Run detailed searches in EPO's worldwide bibliographic, legal event and full text data collections
2. Run preliminary data quality assessment (risk management)
3. Run regular monitoring searches
4. Work effectively when browsing search result sets
5. Visualise/download search result sets (statistics)

# EPO's worldwide searchable data collections

	Espacenet	GPI	PATSTAT
			
Bibliographic data	●	●	●
Legal events	●	●	●
Full text <sup>1</sup>	● ●	●	●
<i>Update frequency</i>	<i>daily</i>	<i>weekly</i>	<i>twice a year</i>

**1.** Current GPI full text coverage: **DE ES FR GB + EP WO** (in de en fr language) – next addition: **CH**

# Access to GPI at [epo.org/gpi](https://epo.org/gpi)



GPI is a powerful tool that enables you to perform detailed searches in the EPO's worldwide bibliographic, legal event and full-text data.

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No search limitation  
Download limitation

# Login window



Europäisches  
Patentamt  
European  
Patent Office  
Office européen  
des brevets

Patent information services for experts

English ▼

Contact

Other EPO online services ▼

Log in – for Global Patent Index and PATSTAT Online

Username


PLG

Password

.....

Log in

☒ Remember username and password [Forgotten login details?](#)

Database	Edition	
EP full-text search	EPAB 2021/14	<a href="#">info</a>
EP Bulletin search	BULL 2021/14	<a href="#">info</a>
 Global Patent Index	GPI 2021/14	<a href="#">info</a>
 PATSTAT Online	PATSTAT 2020 Autumn	<a href="#">info</a>
 PATSTAT Online	PATSTAT 2020 Spring	<a href="#">info</a>

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1. Login
2. Select GPI

# Search window

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[Help](#)

[Search](#)
[Result](#)
[Statistics](#)

PLG is using GPI 2021/14
 ●
[Log out](#)

Criteria

EASY SEARCH

FIND

All data

DATES

All kinds of dates

NUM

All kinds of numbers

WORD

All titles, abstracts, descriptions and claims

FTXT

All descriptions and claims

TIAB

All titles and abstracts

NAME

All inventors and applicants

CLAS

All kinds of classifications

SIMPLE SEARCH

DETAILED SEARCH

Index WORD

Go to blockchain

Term

blockchain

blockchain1

blockchain10

blockchain102

blockchain110

blockchain120

blockchain120y

blockchain128

blockchain13

Query

(WORD = (public\* or private\* or secret\* or asymmetr\* or decrypt\* or encrypt\*) + asymetr\* or asymmetr\* or kryptogr\* or chiffr\* or verschlüssel\* or decrypt\* or déchiffr\* or entschlüssel\*) or (elliptic\*

Search target: data encryption applied to blockchain technology

= < <= > >= [ ] ( ) " # ? \*

History

ID	Database	Result	Query	Parsed query
\$79	GPI 2021/14	757	DFE [202101, 202103] AND \$78	(DFE_FOR_RANGE[20210101,202...
\$78	GPI 2021/14	7 487	\$76 and \$77	(TIEN = (public* OR private* OR se...
\$77	GPI 2021/14	51 730	(WORD = blockchain* or block* +1w chain* or cha...	TIEN = blockchain* OR ABEN = blo...
\$76	GPI 2021/14	88 905	(WORD = (public* or private* or secret* or asymme...	TIEN = (public* OR private* OR sec...
\$75	GPI 2021/14	757	DFE [202101, 202103] AND \$73	(DFE_FOR_RANGE[20210101,202...
\$74	GPI 2021/14	29	\$73 andnot (IPC or CPC = *)	(TIEN = (public* OR private* OR se...
\$73	GPI 2021/14	7 487	\$71 and \$72	(TIEN = (public* OR private* OR se...
\$72	GPI 2021/14	51 730	(WORD = blockchain* or block* +1w chain* or cha...	TIEN = blockchain* OR ABEN = blo...
\$71	GPI 2021/14	88 905	(WORD = (public* or private* or secret* or asymme...	TIEN = (public* OR private* OR sec...
\$70	GPI 2021/14	7 487	(WORD = (public* or private* or secret* or asymme...	(TIEN = (public* OR private* OR se...
\$68	GPI 2021/14	13	appd=INVECTYS	APPD_WORD = invectys OR APPD...
\$67	GPI 2021/14	59 976	\$59 andnot \$58 andnot puc=su de	(DLE = 20210408) AND (STA = c) A...

# Combine bibliographic data + full text

The screenshot shows a patent search interface. At the top, a status bar indicates "12 505 doc. (7 487 families)". Below this, a search bar contains the query: **(WORD** = (public\* or private\* or secret\* or decrypt\* or encrypt\*) +2w key\* or (clé\* or clef\*) +2w (publique\* or privé\* or secrète\* or as chiffr\* or chiffr\*) or (öffentlich\* or privat\* or geheim\* or asymmetr\*) +2w schlüssel\* or ###schlüssel\* or (cryptograph\* or kryptograph\*) /2w signatur\* or (asymmetr\* or asymetr\*) /2w (encrypt\* or chiffr\* or verschlüssel\* or decrypt\* or déchiffr\* or tal\*) +2w signature\*)) or (elliptisch\* and \* and elliptique\* and ((cryptograph\* or chain\* or block\* +1w chain\* or chaîne\* +2w bloc\* or Blockkette\* or (distributed or shared or decentrali#ed) +2w ledger\* or register\* +2w (distribué\* or partagé or décentralisé\*) or (dezentral\* +2w geführte\* +2w Kontobuch\*) or dezentrale\* +2w Hauptbuch\* or (distributed +2w consensus +2w network\*) or DLT or DAG). A dropdown menu for "Family filter" is open, showing options: "No filter", "Application filter", and "Family filter". A text box on the left explains: **WORD** combines bibliographic data and full text: titles + abstracts + descriptions + claims. The bottom of the interface shows a toolbar with various search operators and icons.

Query: 12 505 doc. (7 487 families)






Family filter: No filter, Application filter, Family filter

**WORD** combines bibliographic data and full text: titles + abstracts + descriptions + claims





(WORD = (public\* or private\* or secret\* or decrypt\* or encrypt\*) +2w key\* or (clé\* or clef\*) +2w (publique\* or privé\* or secrète\* or as chiffr\* or chiffr\*) or (öffentlich\* or privat\* or geheim\* or asymmetr\*) +2w schlüssel\* or ###schlüssel\* or (cryptograph\* or kryptograph\*) /2w signatur\* or (asymmetr\* or asymetr\*) /2w (encrypt\* or chiffr\* or verschlüssel\* or decrypt\* or déchiffr\* or tal\*) +2w signature\*)) or (elliptisch\* and \* and elliptique\* and ((cryptograph\* or chain\* or block\* +1w chain\* or chaîne\* +2w bloc\* or Blockkette\* or (distributed or shared or decentrali#ed) +2w ledger\* or register\* +2w (distribué\* or partagé or décentralisé\*) or (dezentral\* +2w geführte\* +2w Kontobuch\*) or dezentrale\* +2w Hauptbuch\* or (distributed +2w consensus +2w network\*) or DLT or DAG)

FYI, see EPO [glossary of terms](#) on blockchain technology with translated terms and CPC information – also in other technical areas

# Combine bibliographic data + full text

Query  12 505 doc. (7 487 families)   Family filter  

(**WORD** = (public\* or private\* or secret\* or asymmetr\* or decrypt\* or encrypt\*) +2w key\* or (clé\* or clef\*) +2w (publique\* or privé\* or secrète\* or asymetr\* or déchiffr\* or chiff\*) or (öffentlich\* or privat\* or geheim\* or asymmetr\*) +2w schlüssel\* or ###schlüsselungsschlüssel\* or (cryptograph\* or kryptograph\*) /2w signatur\* or (asymmetr\* or asymetr\*) /2w (encrypt\* or chiff\* or verschlüssel\* or decrypt\* or déchiffr\* or entschlüssel\*) or (elliptic\* and curve\* and ((cryptograph\* or digital\*) +2w signature\*)) or (elliptisch\* and kurve\* and ((kryptograph\* or digital\*) +2w signatur\*)) or (courbe\* and elliptique\* and ((cryptograph\* or signature\*) +2w numérique\*)) or ECDSA\*) AND (**WORD** = blockchain\* or block\* +1w chain\* or chaîne\* +2w bloc\* or Blockkette\* or (distributed or shared or decentrali#ed) +2w ledger\* or register\* +2w (distribué\* or partagé or décentralisé\*) or (dezentral\* +2w geführte\* +2w Kontobuch\*) or dezentrale\* +2w Hauptbuch\* or (distributed +2w consensus +2w network\*) or DLT or DAG)

= < <= > >= [ ] ( ) " # ? ★    

Usual next step: query enrichment with classification information, but ...



# Run preliminary quality assessment searches

before combining terms with IPC/CPC in your query: how many documents **without** IPC/CPC?

⇒ Run quality assessment, i.e. **measure the risk** of not retrieving documents due to missing classification information

History				
ID	Database	Result	Query	P...
\$74	GPI 2021/14	29	\$73 andnot (IPC or CPC = *)	(T...
\$73	GPI 2021/14	7 487	\$71 and \$72	(T...
\$72	GPI 2021/14	51 730	(WORD = blockchain* or bl...	TI...
\$71	GPI 2021/14	88 905	(WORD = (public* or private...	TI...
\$70	GPI 2021/14	7 487	(WORD = (public* or private...	(T...

Query \$73 (terms only): returns 7.487 families

\$73 andnot (IPC or CPC = \*): returns 29 families

⇒ **risk = 0,4%**

**Note:** % sometimes much higher (e.g. for “Applicant country of residence”)

# Run preliminary quality assessment searches

FYI, [PATSTAT bibliographic data completeness](#) (Tableau Public):



# Visualise search result sets

**Simple statistics** to identify classification symbols most frequently assigned by patent examiners:

The screenshot displays the 'Simple statistics' interface of the European Patent Office. The interface includes a table of CPC groups with their document counts and rankings. A red circle highlights the 'Simple statistics' tab. A callout box points to the 'Selected terms' section, which shows the query 'CPC = (H04L9)'.

#	CPC group	Documents	Ranking (%)
1	<input checked="" type="checkbox"/> H04L9	29 938	33.67
2	<input type="checkbox"/> H04L63	24 164	27.52
3	<input type="checkbox"/> H04L67	14 121	15.21
4	<input type="checkbox"/> H04L2209	12 748	14.34
5	<input type="checkbox"/> H04W12	10 132	11.40
6	<input type="checkbox"/> G06Q20	8 471	9.53
7	<input type="checkbox"/> H04L67	7 662	8.82

Selected terms: Copy Clear

CPC = (H04L9)

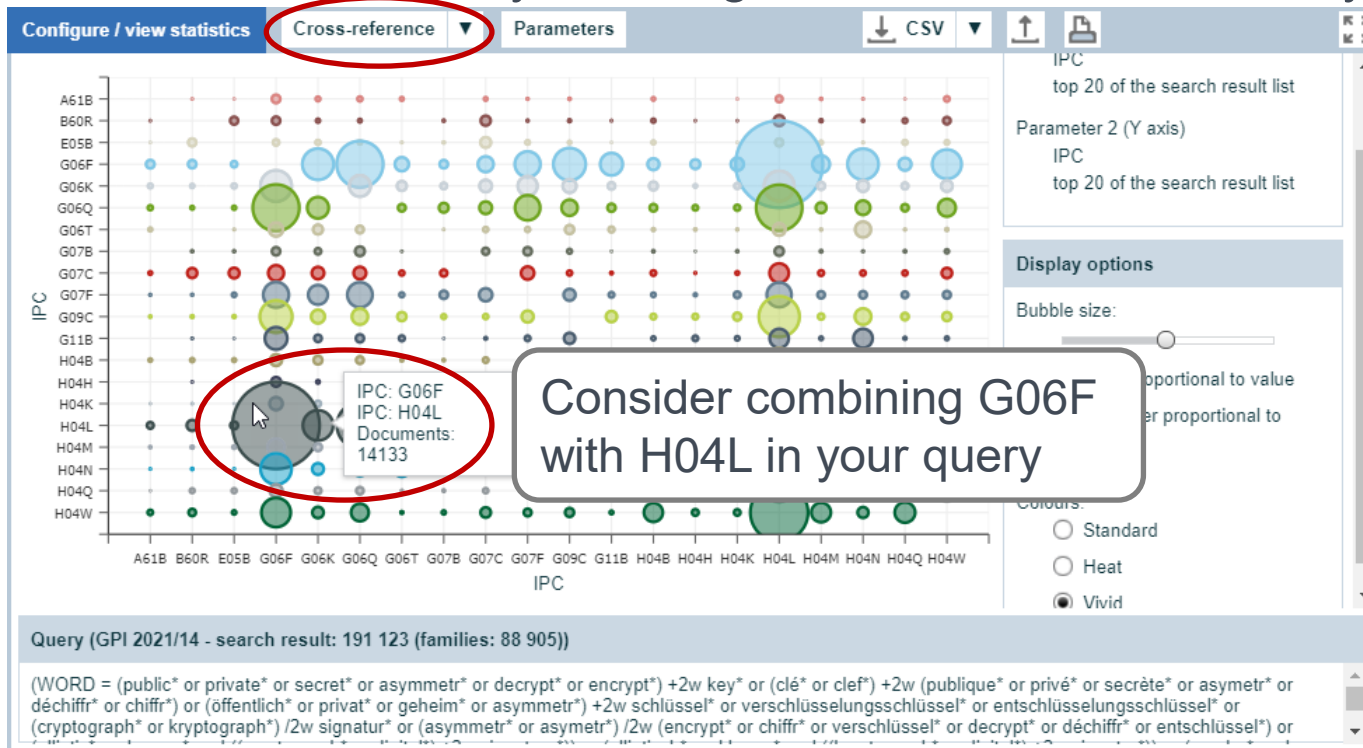
Query (GPI 2021/14 - search result: 191 123 (families: 88 905))

(WORD = (public\* or private\* or secret\* or asymmet\* or decrypt\* or encrypt\*) +2w key\* or (clé\* or clef\*) +2w (publique\* or privé\* or secrète\* or asymetr\* or déchiffir\* or chiffir\*) or






Easy transfer of relevant symbols to your initial query based on keywords only

# Visualise search result sets

Cross reference to identify co-assignments of classification symbols:



# Query enrichment with classification information





Query  10 264 doc. (5 858 families)   Family filter  

(**WORD** = (public\* or private\* or secret\* or asymmetr\* or decrypt\* or encrypt\*) +2w key\* or (clé\* or clef\* or clé\* or secrète\* or asymetr\* or déchiffr\* or chiff\*) or (öffentlich\* or asymmetr\*) +2w schlüssel\* or ###schlüsselungsschlüssel\* or (cryptograph\* or kryptograph\*) /2w signatur\* or (asymmetr\* or asymetr\*) /2w (encrypt\* or chiff\* or verschlüss\* and curve\* and ((cryptograph\* or digital\*) +2w signatur\* or (cryptograph\* or signature\*) +2w numérique\*)) or EC bloc\* or Blockkette\* or (distributed or shared or decentrali#ed) +2w ledger\* or register\* +2w (distribué\* or partagé or décentralisé\*) or (dezentral\* +2w geführte\* +2w Kontobuch\*) or dezentrale\* +2w Hauptbuch\* or (distributed +2w consensus +2w network\*) or DLT or DAG)

20% families less

Possible next step for your search strategy :  
identify and use classification **subgroup** levels

**AND (IPC or CPC = H04L9 or G06F21 or CPC = H04L2209 or H04L63)**

= < <= > >= [] ( ) " # ? ★    

# Combine bibliographic data + full text + legal events

**Highly relevant** when searching for applicants/proprietors:

**APP**: applicant/proprietor in bibliographic data, known at the time of publication

**EVOW**: owner mentioned in legal events, e.g. following a change of ownership



The screenshot shows a patent search interface. At the top, there is a "Query" tab with a magnifying glass icon. To the right of the search bar are icons for a document, a close button (X), a "Family filter" dropdown menu, and a download icon. The search bar contains the query: **WORD** = ... **AND** **IPC** **OR** **CPC** = ... **AND** **APP** **OR** **EVOW** = "PING INDENTITY" **OR** ... Below the search bar is a toolbar with various operators and symbols: =, <, <=, >, >=, [], (), ", #, ?, \*, and icons for document, document with X, document with P, and a refresh/circular arrow icon.

Query    Family filter   

**WORD** = ... **AND** **IPC** **OR** **CPC** = ... **AND** **APP** **OR** **EVOW** = "PING INDENTITY" **OR** ...

# Combine bibliographic data + full text + legal events

EP 2521992 A1 20121114				EP 2521992 A1 20121114	
				Text	Original
Event date	Event category	Event code	Event description	Applicant	
2018.05.30	B - Application discontinuation	18R	APPLICATION REFUSED Effective date: 2017.12.15	ACCELLS TECHNOLOGIES 2009 LTD (IL)	
2017.12.15	B - Application discontinuation	REG DE R003	REFUSAL DECISION NOW FINAL	Abstract (en)	
2016.02.24	D - Search and examination	17Q	FIRST EXAMINATION REPORT DESPACHED Effective date: 2016.04.22	[origin: WO2011083471A1] A transaction system for use in cooperation with a client mobile device, the transaction system constituted of: a provider associated device arranged to obtain an identifier associated with the client mobile device; and a transaction server in communication with the provider associated device. The provider associated device is arranged to output a transaction request message comprising information regarding the obtained identifier of the client mobile device. The transaction server, responsive to the transaction request message, is arranged to process the received transaction request message in accordance with one of a plurality of processing paths responsive to an attribute of the received transaction request message.	
2015.07.22	R - Party data change	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED Owner: PING IDENTITY CORPORATION	Title (en)	
2013.09.04	D - Search and examination	A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPACHED Effective date: 2013.08.07	SYSTEM AND METHOD FOR PERFORMING A TRANSACTION RESPONSIVE TO A MOBILE DEVICE	

⇒ EP 2521992 A1 **not retrieved** with **APP** = "PING IDENTITY"  
Only retrieved with **APP** or **EVOW** = "PING IDENTITY"

# Combine bibliographic data + full text + legal events

Compare search results:

History				
ID	Database	Result	Query	Parsed query
\$25	GPI 2021/15	29	\$23 or \$24	APPD_WORD ...
\$24	GPI 2021/15	27	EVOW = "PING IDENTITY"	EVOW_WORD...
\$23	GPI 2021/15	21	APP = "PING IDENTITY"	APPD_WORD ...

Owner Ping Identity, e.g. in the case of US assignments:

US 8473749 B1 20130625				
Event date	Event category	Event code	Event description	
2012.08.02	R - Party data change	AS	ASSIGNMENT  ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MADSEN, PAUL;CAMPBELL, BRIAN;SIGNING DATES FROM 20120525TO 20120620;REEL/FRAME:028708/0216 Owner: PING IDENTITY CORPORATION, COLORADO	



# Combine bibliographic data + full text + legal events

Applicant/proprietor and new owner available as result list columns:

Result list		
1 / 29		
Publication	Applicant	Owner mentioned in the event record
US 2013023240 A1 20130124	WEINER AVISH JACOB	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT, TE BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT, TEXAS PING IDENTITY CORPORATION, COLORADO GOLDMAN SACHS BANK USA, AS COLLATERAL AGENT, NEW Y PING IDENTIT...
US 10776384 B1 20200915	PING IDENTITY CORP	
IL 229479 A 20190131	AVISH WEINER PING IDENTITY CORP ACCELLS TECH 2009 ACCELLS TECH 2009 LTD	
EP 3678348 A1 20200708	PING IDENTITY CORP	
EP 3471007 A1 20190417	PING IDENTITY CORP	
EP 2521992 A1 20121114	ACCELLS TECHNOLOGIES 2009 LTD	PING IDENTITY CORPORATION
AU 2012265824 A1 20140123	ACCELLS TECHNOLOGIES 2009 LTD	PING IDENTITY CORPORATION
AU 2012257312 A1 20140116	PING IDENTITY CORP	PING IDENTITY CORPORATION

# Run regular monitoring searches

**Monitoring** with GPI means running a search at regular intervals (e.g. monthly or quarterly) to retrieve patent documents made available in GPI for the first time in the monitored time period.

**Use case:** e.g. monitoring of technical areas and/or competitors

**Scenario:** early April 2021 we monitor 2021 Q1, for our technical area of interest (query \$78)

**Means:** criterion **DFE** “Date of first exchange” = date a document is included in GPI for the first time:

**DFE** [202101, 202103] **AND** \$78

# Run regular monitoring searches

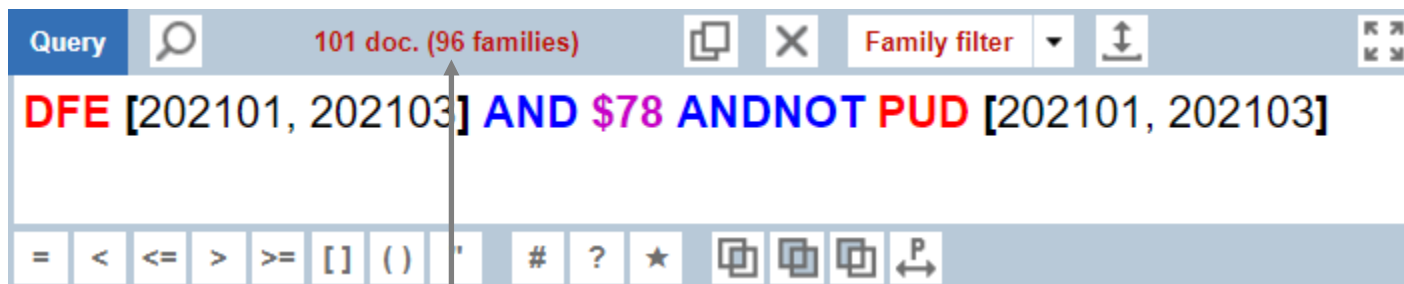
Search result set on 09.04.2021:

History				
ID	Database	Result	Query	Parse...
\$79	GPI 2021/14	757	DFE [202101, 202103] AND \$78	(DFE_...
\$78	GPI 2021/14	7 487	\$76 and \$77	(TIEN ...
\$77	GPI 2021/14	51 730	(WORD = blockchain* or block*...	TIEN ...
\$76	GPI 2021/14	88 905	(WORD = (public* or private* or...	TIEN ...

757 families where at least one family member has been made available in GPI for the first time in 2021 Q1

# Run regular monitoring searches

**Note:** “Added for the first time” in 2021 Q1 does not necessarily mean published in 2021 Q1 :



13% of our result set includes documents published **before** Q1 2021, provided by IPOs to the EPO in Q1 2021, and available in Espacenet/GPI also in Q1 2021

# Run regular monitoring searches

Search result list:

Result list				
20 / 96				
Publication	Publication date	Date of first exchange	Date of addition (DOCDB)	Is granted
CA 3105570 A1 20200130	20200130	20210204	20210129	NO
TW 202037112 A 20201001	20201001	20210121	20210112	NO
TW 202037109 A 2				NO
TW 202036344 A 2				NO
TW 202036402 A 2				NO
TW I706276 B 202				YES
TW I706661 B 202				YES
TW 202037115 A 2				NO
TW 202036351 A 2				NO
TW I707245 B 20201011	20201011	20210121	20210113	YES
TW I707244 B 20201011	20201011	20210121	20210113	YES

1. Regular deliveries from IPOs to the EPO **frequently** contain recent and less recent publications.
2. Publication dates **not recommend** for regular monitoring.

# Run regular monitoring searches

## Scenario #2 – monthly monitoring of companies:

- First monitoring run in January 2021 (monitoring of December 2020)
- Current monitoring run this month (monitoring of March)
- Removal of families already retrieved by a previous monitoring

DFE =202103 **ANDNOT** FMDFE [202012, 202102] **AND** APP OR EVOW = ...

**FMDFE**: first exchange of a family member

**ANDNOT** **FMDFE** eliminates families already retrieved during the monitoring run in January, February and March

# Run regular monitoring searches

**Scenario #3** – monitoring of licensing information published in March:

**EVD** = 202103 **AND** **EVCA** = **S** **AND** ...

**EVD**: legal event date (publication, e.g. in Bulletin or Gazette)

**EVCA**: event category **S** = “*Information on licensing and similar transactions*”. EPO categorised around 3.000 detailed legal events.  
Category **S** = 250 detailed legal events!

# Run regular monitoring searches

Document 5 / 1 762

Biblio. + Description + Claims + Drawings + Search report Legal events

EP 2228558 B1 20110126

Applicant  
TMD FRICTION SERVICES GMBH (DE)

Title (en)  
Brake lining for disc brakes

Title (de)  
Bremsbelag für Scheiben

Title (fr)  
Garniture de frein pour freins à disques

Publication  
EP 2228558 B1 20110126 (DE)

Application  
EP 10001879 A 20100224

Event date	Event category	Event code	Event description
2021.03.10	S - Information on licensing and similar transactions	REG GB 746	REGISTER NOTED 'LICENCES OF RIGHT' (SECT. 46/1977) Effective date: 2021.02.16
2021.03.08	S - Information on licensing and similar transactions	REG DE R084	DECLARATION OF WILLINGNESS TO LICENCE Document: DE502010000004
2021.02.25	W - Other	REG ES GC2A	EXPLOITATION CERTIFICATE REGISTERED APPLICATION WITH SEARCH REPORT Effective date: 2021.02.19
2020.07.31	U - Payment	PGFP ES	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO] Country: ES Payment date: 2020.03.22

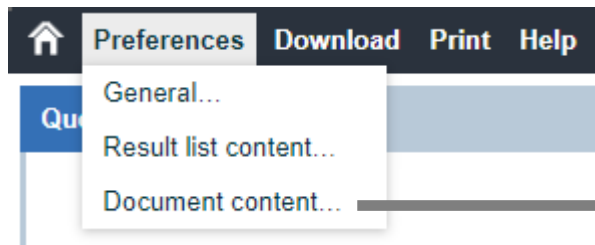
Information from UK IPO

Information from DE IPO

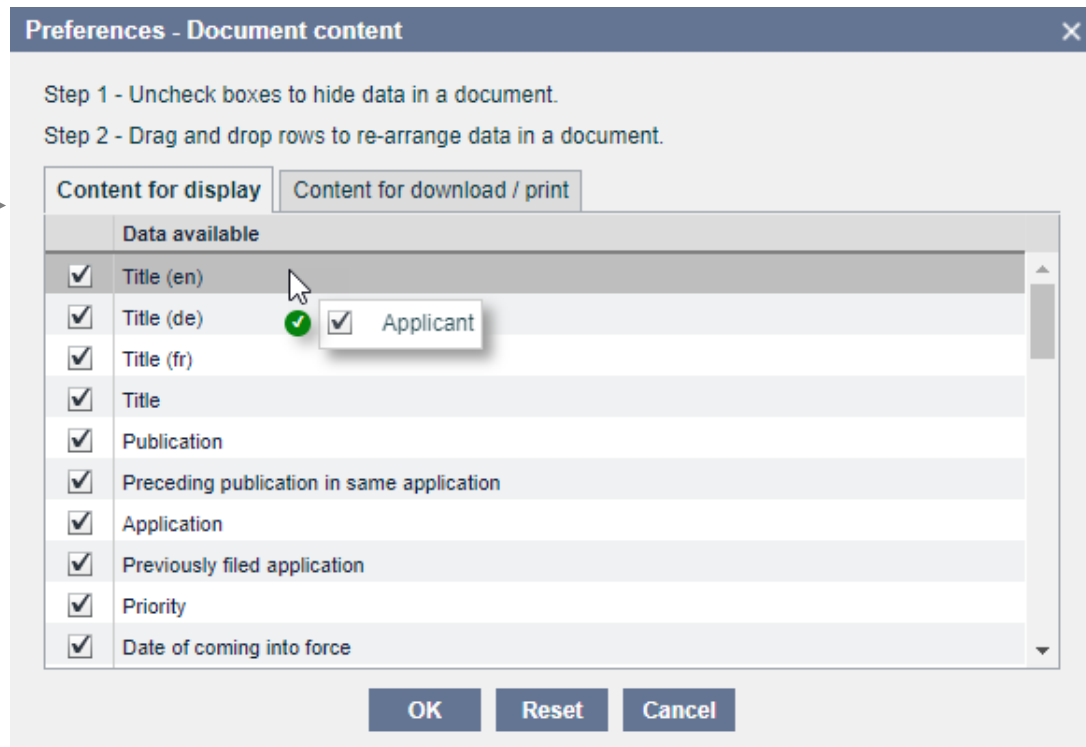
Event categories = powerful entry means in the world of legal events



# Work effectively when browsing search result sets



Customise result list and document content to focus on relevant information



# Work effectively when browsing search result sets

Home Preferences Download Print Help

Search

Result

Statistics

PLG is using GPI 2021/14

Log out

Query 880 doc. (757 families) Family filter

DFE [202101, 202103] AND \$78

Result list 4 / 757

Publication	Title (en)
EP 3596653 B1 20210217	ISSUING VIRTUAL DOCUMENTS IN A BLOCK CHAIN
WO 2021023551 A1 20210211	METHOD FOR THE INITIAL SETUP OF A MACHINE DATA COMMUNICATION NETWORK, AND METHOD FOR REPLACING A HARDWARE COMPONENT
DE 112016006077 B4 20210107	
EP 3618348 B1 20210310	DISTRIBUTED DATABASE SYSTEM, INDUSTRY AUTOMATION
EP 3420669 B1 20210310	FOR SECURE
EP 3420516 B1 20210324	METHODS AND SYSTEMS FOR THE EFFICIENT TRANSFER OF ENTITIES ON A BLOCKCHAIN
EP 3420523 B1 20210217	ELECTRONIC DOCUMENT PLATFORM
EP 3525389 B1 20210217	EMBEDDED SIM MANAGEMENT SYSTEM, NODE DEVICE, EMBEDDED SIM MANAGEMENT METHOD, PROGRAM, AND INFORMATION REGISTRANT DEVICE
EP 3605942 B1 20210217	KEY AGREEMENT FOR WIRELESS COMMUNICATION
EP 3283964 B1 20210317	METHOD OF OPERATING A COMPUTING DEVICE, COMPUTING DEVICE AND COMPUTER PROGRAM
EP 3420674 B1 20210324	BLOCKCHAIN-IMPLEMENTED METHOD FOR CONTROL AND DISTRIBUTION OF DIGITAL CONTENT

Document 4 / 757

Biblio. + Description + Claims + Drawings + Search report + Legal events

EP 3618348 B1 20210310

Applicant  
SIEMENS AG (DE)

Publication  
EP 3618348 B1 20210310 (DE)

Abstract (en)  
[origin: WO2020043508A1] The invention relates to a method for operating a distributed database system (1) having distributed node devices (2-6) for providing data blocks (Bi) linked to one another, such as for example as a block chain (BC), which document data inputs assigned to participants (8), wherein a respective coupling (9) between the participant (8) and the assigned data input is carried out with the aid of a cryptographic block chain security method (BCS). The block chain security method (BCS) has a cryptographic block chain security level (BSL). The method comprises: providing (S6) a cryptographic challenge (CC) on the basis of the block chain security method (BCS), in which the cryptographic challenge (CC) is provided with a cryptographic challenge (CC) which is lower than the block chain security level (nBSL), and a solution to the cryptographic challenge (CC) is provided to the participants according to the provided cryptographic challenge (CC) and the provided cryptographic challenge (CC) is more secure.

Representative image  
FIG 1

Add result list columns

Rearrange document fields

European Patent Office

26

# Work effectively when browsing search result sets

The screenshot shows the EPO search results interface. The top navigation bar includes 'Preferences', 'Download', 'Print', 'Help', 'Search', 'Result', and 'Statistics'. The 'Result' tab is active, showing a search result for 'DE 112016006077 B4 20210107'. The interface is divided into several sections: 'Document' (left), 'Claims' (middle), and 'Drawings' (right). The 'Document' section contains a list of search hits. The 'Claims' section shows the text of the claims. The 'Drawings' section shows a diagram labeled 'FIG. 1'. Annotations with arrows point to specific features:

- Browse result list**: Points to the 'Document' section, specifically to the search hit list.
- Navigate in search hits**: Points to the 'Claims' section, specifically to the text of the claims.
- Switch to mode document viewer (query and result list boxes are hidden)**: Points to the 'Drawings' section, specifically to the diagram.
- Open max. 4 document sections**: Points to the 'Drawings' section, specifically to the diagram.

The interface also includes a 'Document' section with a search bar and a 'Claims' section with a search bar. The 'Document' section has a search bar and a 'Claims' section with a search bar. The 'Document' section has a search bar and a 'Claims' section with a search bar.

# Visualise search result sets to prepare reports

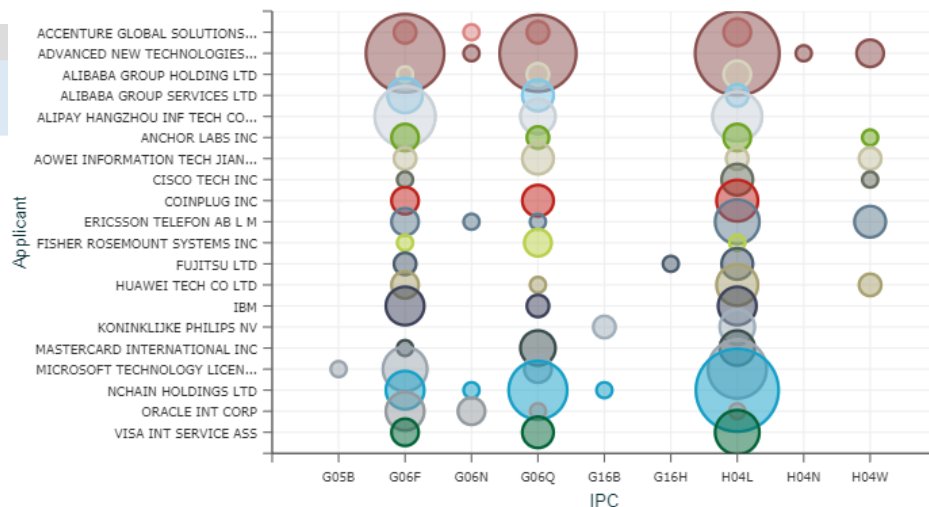
## Simple statistics

e.g. top 100 applicants

#	Applicant	Documents	Ranking (%)
1	ADVANCED NEW TECHNOLOGIES CO LTD	55	7.27
2	NCHAIN HOLDINGS LTD	37	4.89
3	ALIPAY HANGZHOU INF TECH CO LTD	23	3.04
4	MICROSOFT TECHNOLOGY LICENSING LLC	18	2.38
5	ERICSSON TELEFON AB L M	11	1.45
6	VISA INT SERVICE ASS	9	1.19
7	SIEMENS AG	9	1.19
8	HUAWEI TECH CO LTD	9	1.19
9	SKYGRID LLC	8	1.06
10	IBM	8	1.06

## Cross reference

e.g. top 20 applicants \* top 20 IPC



Not enough statistics parameters? ⇒ download customised result lists

# Download of search result lists for post-processing

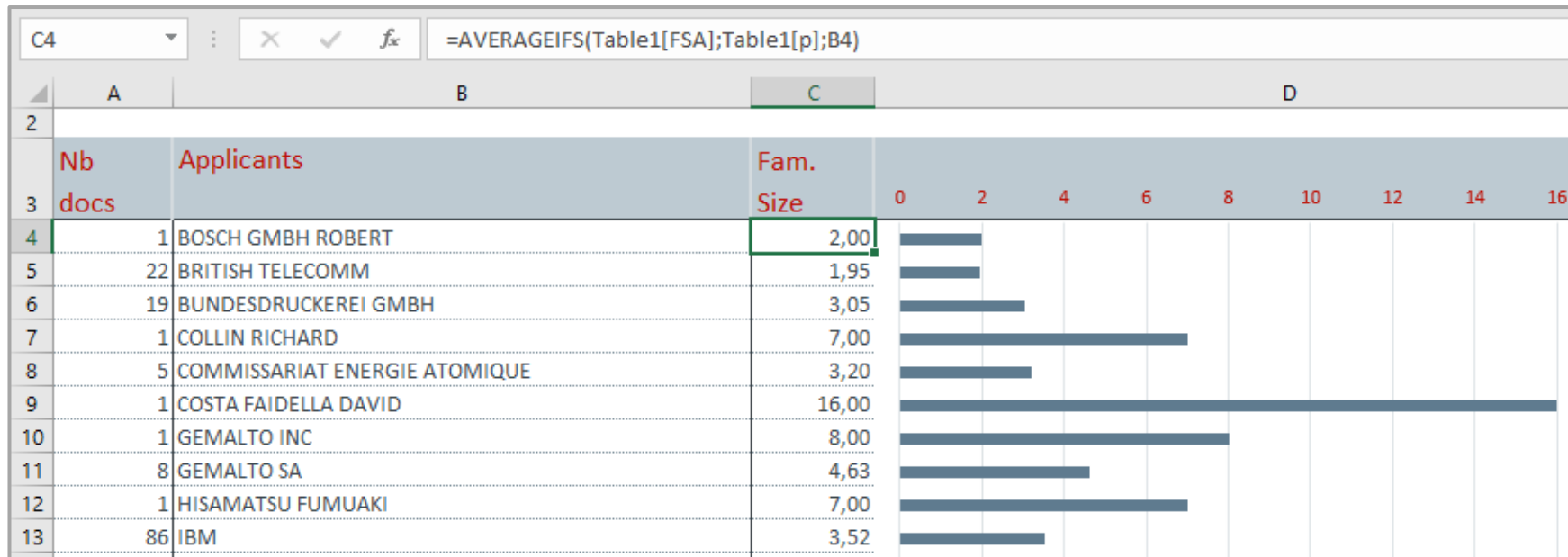
**XSLX** or **CSV** file:

Publication	Applicant	Family size (applications)	CPC (invention information)
<a href="#">WO 2019001923 A1 20190103</a>	SIEMENS AG		3 H04L 9/0891 (2013.01) H04L 9/3236 (2013.01) H04L 9/3239 (2013.01) H04L 9/3247 (2013.01)
<a href="#">WO 2018167253 A1 20180920</a>	BUNDESDRUCKEREI GMBH		3 H04L 9/3236 (2013.01) H04L 9/3247 (2013.01)
<a href="#">DE 102017204536 B3 20180308</a>	BUNDESDRUCKEREI GMBH		4 G06F 21/645 (2013.01) G06Q 30/018 (2013.01) G06Q 50/18 (2013.01) H04L 9/0825 (2013.01) H04L 9/30 (2013.01)

- Prepare information annexed to your search report
- Create your own statistics

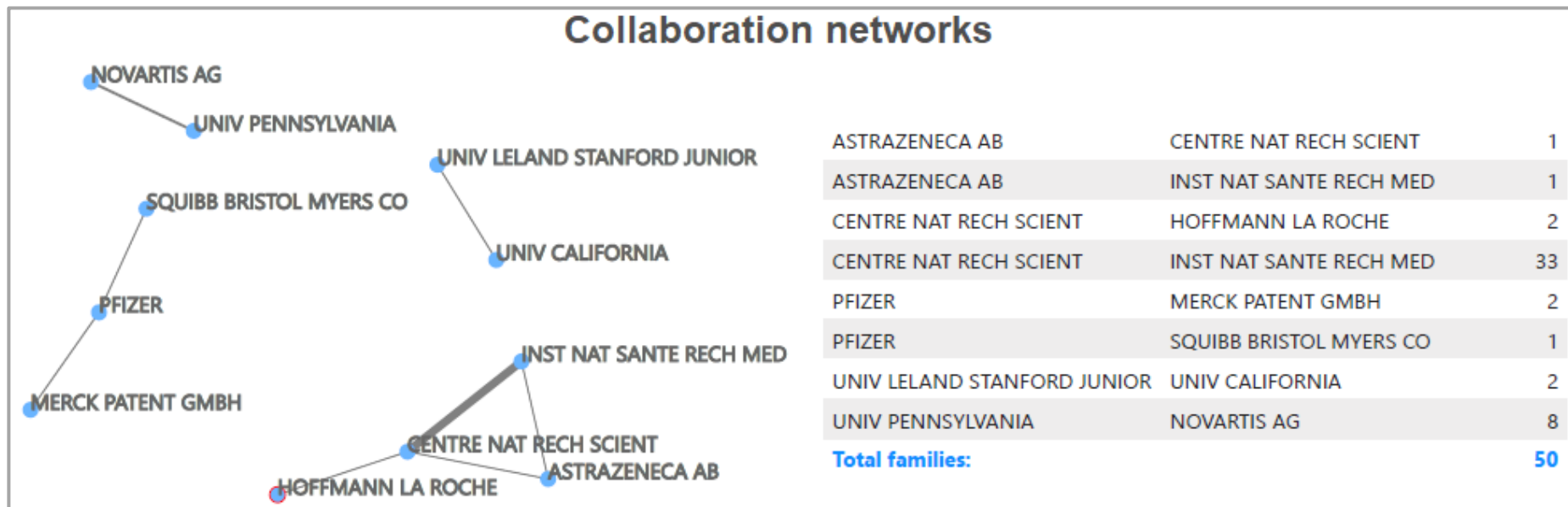
# Download of search result lists for post-processing

XML file – e.g. loaded/modified with Excel:



# Download of search result lists for post-processing

**XML** file – e.g. loaded/modified 1<sup>st</sup> with Excel and 2<sup>nd</sup> with Power BI:



# With GPI, can I ...

## 1. Search all granted patents in one go?

☒ yes ☐ no

Using criterion ISG “Is granted”: e.g. **ISG** = YES

## 2. Easily combine queries of my search history?

☒ yes ☐ no

Using query IDs: e.g.

**\$1 andnot \$2**

**\$3 and IPC or CPC = ...**

## 3. Easily spot top companies in a given tech. area?

☒ yes ☐ no

Using **Simple statistics** with the parameter **Applicant**



## With GPI, can I ...

**4. Assess freedom to operate in the US market?** ☐ yes ☒ no

Current full text coverage: DE EP ES FR GB WO

**5. Use publication dates for regular monitoring?** ☒ yes ☐ no

But not recommended: data deliveries from IPOs to the  
EPO sometimes cumulate frontfile with backfile data

Use **DFE/FMDFE** instead of **PUD**

**6. Use **APP** to spot changes of ownership?** ☐ yes ☒ no

A change of ownership is a legal information – use **EVOW**,  
combined or not with **APP** – e.g. **APP** or **EVOW** = ...

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