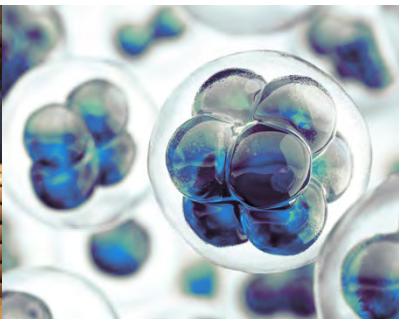




Europäisches
Patentamt
European
Patent Office
Office européen
des brevets

PATSTAT Online

KL06-2021 Online seminar



Johannes Schaaf, Geert Boedt

Patent Knowledge Promotion

Vienna, February 2021

Agenda

- What is PATSTAT
- Potential statistical uses of patent data
- PATSTAT Online
 - Beginners interface
 - Expert interface
- When PATSTAT Online is not enough

PATSTAT

- the *EPO Worldwide Patent Statistical Database*
- tailored to facilitate statistical analysis, not your classical prior art search



cc: Forest & Kim Starr



cc: Crusier

Focus on forest, not the tree: discover trends and relationships

- EPO provides data and database model (table format)
- updated twice per year

PATSTAT is available in 2 flavours

PATSTAT Global → bulk data

- subscription product
- must be loaded into your DB
- full control over your data

```
appln_id,appln_auth,appln_nr,appln  
0,"ZZ","","D ",9999-12-31,"","PI",  
1,"EP","00103094","A ",2000-02-15,  
2,"EP","00107845","A ",1992-12-02,  
3,"EP","00202556","A ",2000-07-17,  
4,"EP","00300208","A ",2000-01-13,  
5,"EP","00310305","A ",2000-11-20,  
6,"EP","00310786","A ",2000-12-05,
```

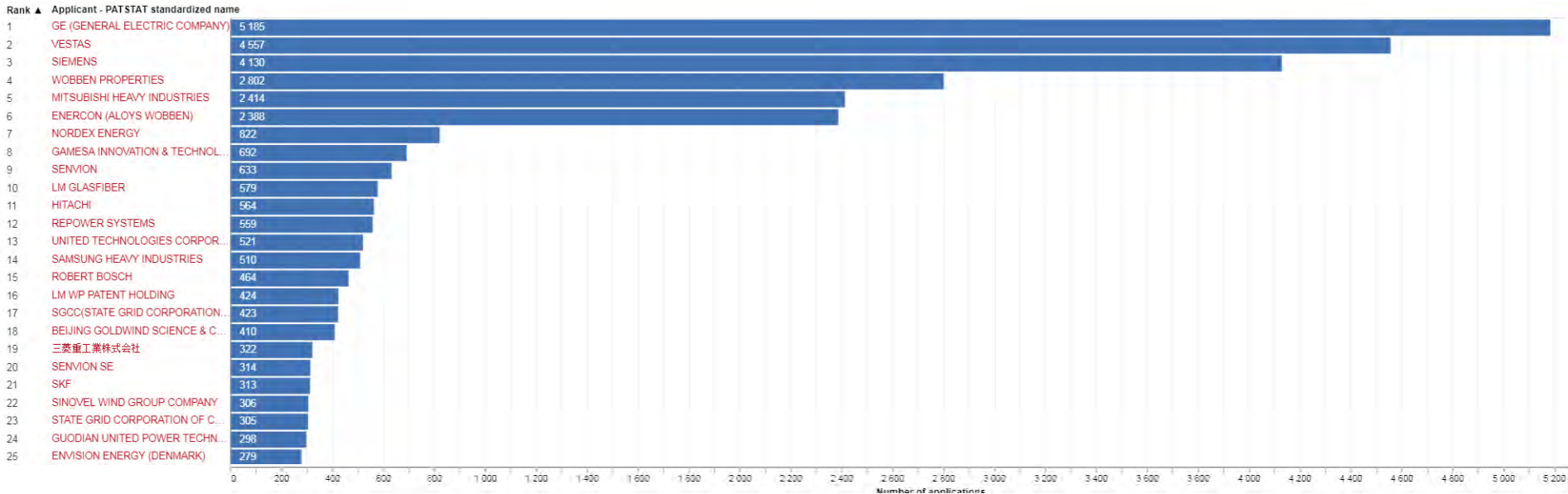
PATSTAT Online (hosted by the EPO)

- ready to use (subscription product !)
- read only database
- additional functions (downloads, charts)

The screenshot shows the PATSTAT Online web interface. The top navigation bar includes 'Preferences', 'Download', 'Print', 'Help', 'Search', 'Table', 'Application', 'Statistics', and a status bar indicating 'gboedt is using PATSTAT 2019 Autumn' with a 'Log out' link. The 'Beginner' tab is selected, and the 'Tables' panel on the left lists various tables under the 'Global' category, including 'tis201_appln', 'tis202_appln_title', 'tis203_appln_abstr', 'tis204_appln_prior', 'tis205_tech_rel', 'tis206_person', 'tis207_pers_appln', 'tis209_appln_ipc', 'tis210_appln_n_cis', 'tis211_pat_publn', 'tis212_citation', 'tis214_npl_publn', 'tis215_citn_categ', 'tis216_appln_contn', and 'tis222_appln_ip_class'. The 'Query' panel shows a SQL query: `SELECT * FROM tis201_appln WHERE appln_auth = 'EP'`. The 'Messages' panel displays the execution time: '4.15.19 PM (SELECT - 3 647 809 row(s), 33.732 secs, server #0) Result set fetched'. The 'History' panel shows a list of queries with columns 'ID', 'Dat...', 'Re...', and 'Query'. The current query (ID 14) is the same as the one in the 'Query' panel.

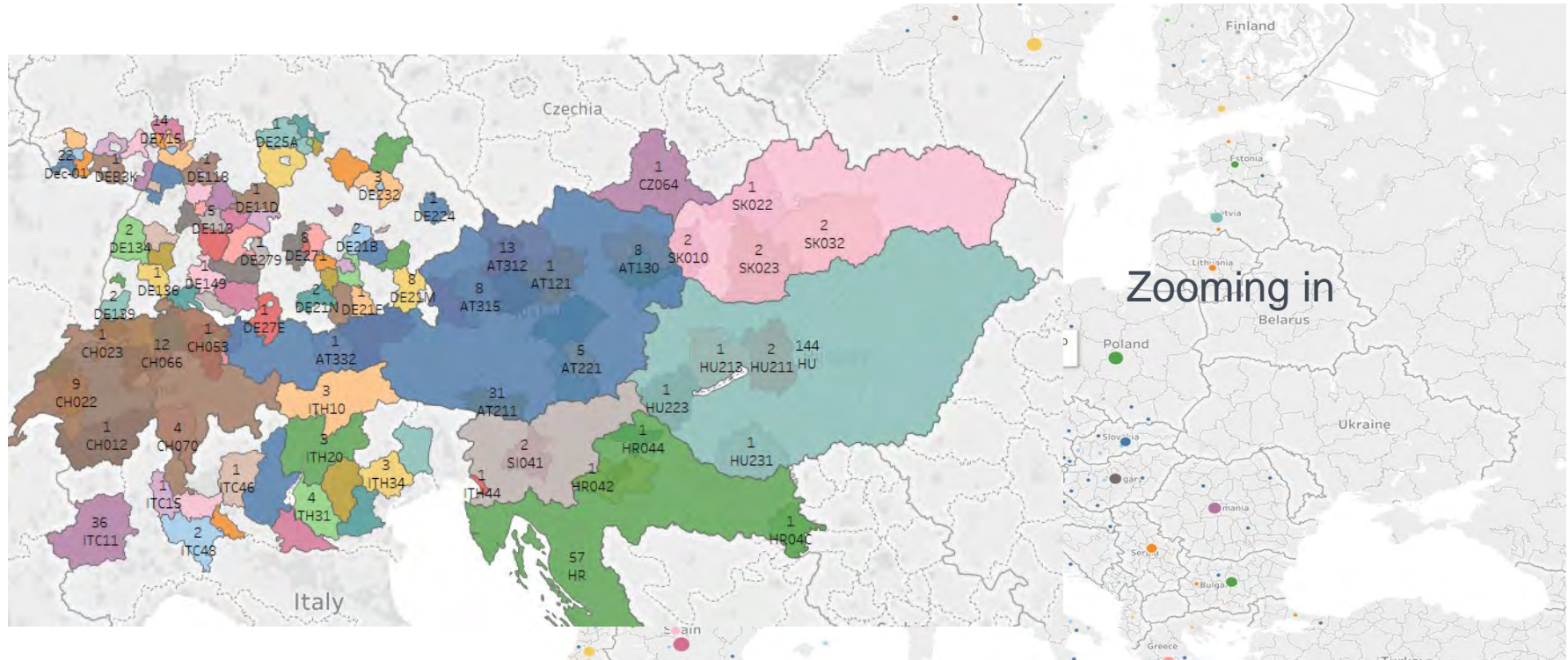
Potential statistical uses of patent data

- Who are the top applicants in the field of wind energy?



Potential statistical uses of patent data

- In which NUTS regions in Europe do we find the wind energy applicants?



Potential statistical uses of patent data

- In what member states does 'Nordex Energy' renew its EP patents?

appln_nr_epodoc	appln_filing_year	B1_year	DE	GB	FR	DK	ES	appln_title
EP20010980190	2001	2007	9	9	9	NULL	9	A METHOD OF PLACING A CRANE IN CONNECTION WITH A WINDMILL
EP20030702539	2003	2008	10	10	10	NULL	10	ROTOR BLADE FOR A WIND POWER INSTALLATION WITH A DAMPING DEVICE
EP20030732313	2003	2007	10	10	10	NULL	10	GROUP OF WIND POWER INSTALLATIONS HAVING DIFFERENT NOMINAL POWERS FOR AN IDENTICAL DRIVE TRAIN
EP20050001793	2005	2010	14	13	13	NULL	13	Epicyclic gear train transmission for wind power plant
EP20050011578	2005	2011	8	8	8	8	8	Rotor blade for wind turbine
EP20060024888	2006	2015	12	12	12	12	12	Method of operating a wind power station
EP20070022334	2007	2011	NULL	NULL	NULL	NULL	NULL	Wind farm tower
EP20080005546	2008	2012	11	10	10	NULL	10	Method for running in a wind energy power train component and wind energy device for carrying out this method
EP20080005547	2008	2013	11	10	10	NULL	10	Method for starting a wind turbine after a stoppage and wind turbine for carrying out this method
EP20080012746	2008	2015	11	11	11	NULL	NULL	Method and device for determining a characteristic curve for an electric variable of a wind turbine
EP20090000998	2009	2015	10	9	9	9	9	Wind turbine with pitch controller
EP20090000999	2009	2017	10	10	NULL	NULL	NULL	Method of controlling a wind turbine and wind turbine
EP20090001016	2009	2015	10	9	9	9	9	Device for monitoring the rotational speed of a wind turbine
EP20090001056	2009	2016	10	9	9	9	9	Regulator for a blade configuration angle of at least one rotor blade of a wind energy assembly
EP20090726921	2009	2012	10	10	10	NULL	10	METHOD FOR OPERATING A WIND POWER PLANT HAVING A DOUBLY-FED ASYNCHRONOUS MACHINE AND WIND POWER PLANT HAVING A DOUBLY-FED ASYNCHRONOUS MACHINE
EP20100000294	2010	2012	9	8	8	8	8	Wind turbine with an azimuth system and method for adjusting the azimuth of a wind energy plant
EP20100004050	2010	2018	NULL	NULL	NULL	NULL	NULL	Wind farm with multiple wind energy assemblies and method for regulating the feed-in from a wind farm
EP20110007254	2011	2015	7	8	8	NULL	NULL	Wind energy facility with a nacelle on a tower comprising a passage-way from the roof of the nacelle in the rotor hub for service personnel
EP20120008157	2012	2016	6	NULL	NULL	NULL	NULL	Wind energy system
EP20140164235	2014	2016	5	NULL	NULL	NULL	NULL	Belt assembly for a wind energy assembly rotor blade
EP20140172445	2014	2018	NULL	NULL	NULL	NULL	NULL	Method for controlling a wind energy turbine during an asymmetric network fault
EP20140173114	2014	2016	5	NULL	NULL	NULL	NULL	Wind energy plant rotor blade with an electrical heating element

Limited extraction of NordexEnergy portfolio

Potential statistical uses of patent data

- Where do my competitors file their applications?

appln_auth	Nordex	Vestas	Our_portfolio
US	94	597	72
EP	136	554	39
ES	81	395	10
CN	33	305	27
DK	71	171	4
DE	97	15	0
AU	6	81	8
AT	27	59	0
CA	4	59	7
JP	2	0	59
TW	0	0	42
MX	0	31	0
GB	0	20	1
WO	1	13	0
PT	2	6	0
KR	0	4	3
NO	4	1	0
PL	0	3	1
AR	0	3	0
BR	0	3	0

Are we making the right decisions by not having our inventions protected in DE, AT and MX ?

Why does VESTAS protect in Mexico and Great Britain ?


PATSTAT Online




Step 1 - User identification

Username Password

☐ Get username and password ☐ Remember username and password

Step 2 - Select database

 Subscriber-only databases

Database name	Database edition	
EP full-text search	EPAB 2020/06	info
EP Bulletin search	BULL 2020/06	info
 Global Patent Index	GPI 2020/06	info
 PATSTAT Online	PATSTAT 2019 Autumn	info
 PATSTAT Online	PATSTAT 2019 Spring	info

Purpose: statistical analysis

Coverage: snapshot of EPO's data collection:

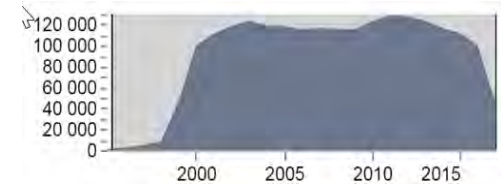
- about 30 tables containing worldwide bibliographic and legal status data (similar data as in Espacenet or Global Patent Index)
- about 25 tables containing bibliographic, legal and procedural data for EP patents (similar data as in the European Patent Register) Update: half-yearly update (spring and autumn)

Update: half-yearly update (spring and autumn)

www.epo.org/patstat

then "Open
PATSTAT Online"

Beginners interface queries



Home Preferences Download Print Help Search

Beginner Expert

Query

Subject ⓘ

I am interested in ⓘ

Technical field ⓘ

- the chronological development of a technical field
- potential markets for a technology
- technologies used in a technical field
- the most active applicants in a technical field

Beginners interface – Create overview

Result table 1 / 16		
Row	appln_filing_year	NumberOfPatentApplications
1	2000	89675
2	2001	102401
3	2002	107957
4	2003	117462
5	2004	119772
6	2005	121335
7	2006	119871
8	2007	117907
9	2008	117750
10	2009	112431
11	2010	120263
12	2011	130906
13	2012	131681
14	2013	129268
15	2014	125169
16	2015	121594

I am interested in the chronological development of a technical field ▼ i

Technical field i Add Field

H01L IPC help x

H01S IPC help x

Time period i Between 2000 and 2015

SQL statement ☒ Overview ☐ Details (to generate charts)

```
SELECT a.appln_filing_year, COUNT(DISTINCT a.appln_id) AS NumberOfPatentApplications
FROM tls201_appln a
JOIN tls209_appln_ipc i ON a.appln_id = i.appln_id
WHERE (i.ipc_class_symbol LIKE 'H01L%'
       OR i.ipc_class_symbol LIKE 'H01S%'
       ) -- Change IPC symbol here
AND a.appln_filing_year BETWEEN 2000 AND 2015 -- Define year range here
GROUP BY a.appln_filing_year
ORDER BY a.appln_filing_year
```

16 row(s) retrieved in 2.725 seconds
See tab "Table" for the result

Run query Edit in expert mode

Beginners interface – Analyse details

Technical field ⓘ

Add Field

H01L

IPC help

x

H01S

IPC help

x

Time period ⓘBetween

2000

 and

2015

SQL statement

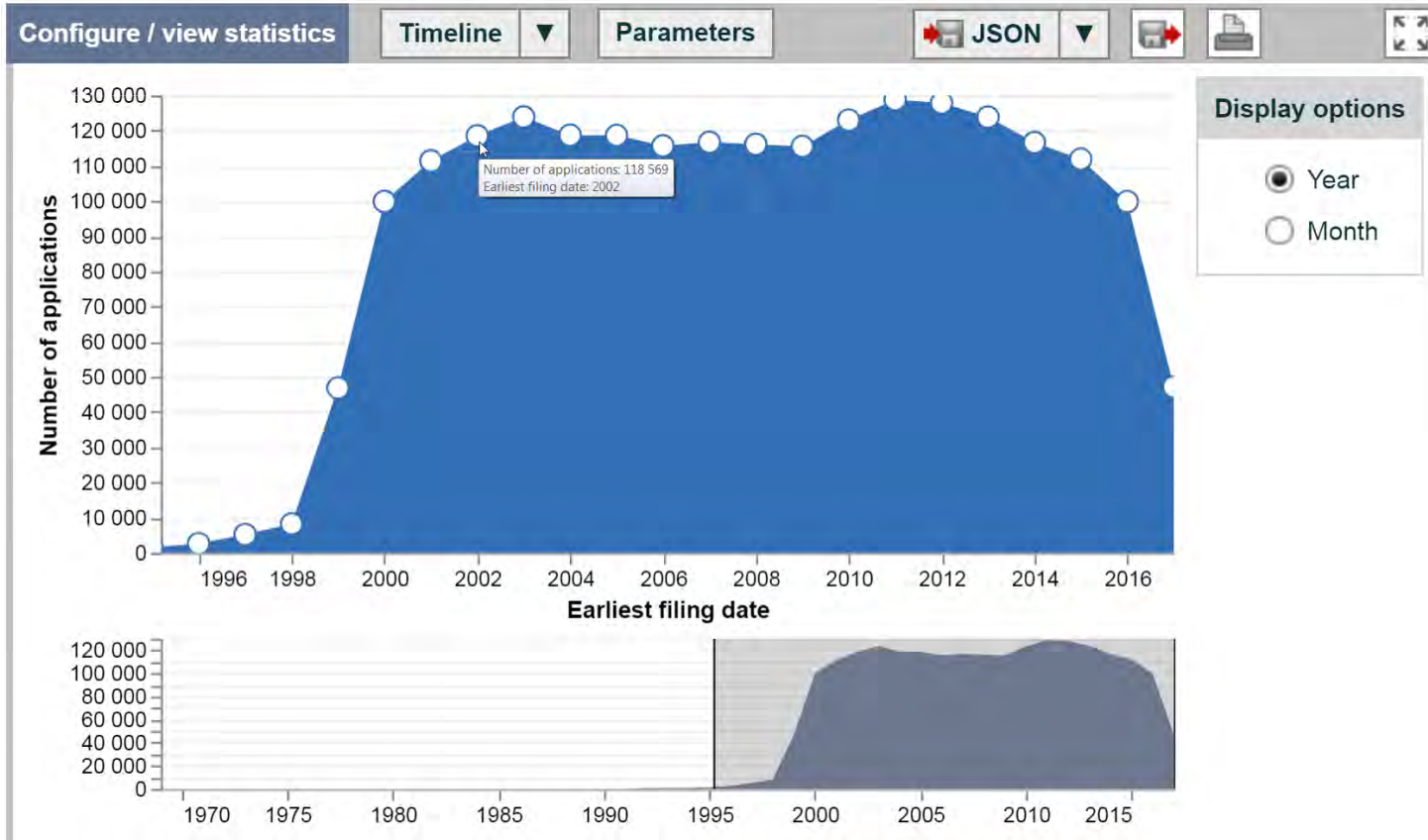
☐ Overview ☒ Details (to generate charts)

```
SELECT DISTINCT a.appln_filing_year, a.appln_id, a.appln_auth, a.appln_nr, a.appln_kind, a.appln_filing_date
FROM tls201_appln a
JOIN tls209_appln_ipc i ON a.appln_id = i.appln_id
WHERE (i.ipc_class_symbol LIKE 'H01L%'
      OR i.ipc_class_symbol LIKE 'H01S%'
      ) -- Change IPC symbol here
AND a.appln_filing_year BETWEEN 2000 AND 2015 -- Define year range here
ORDER BY a.appln_filing_year, a.appln_id
```

Run query

Edit in expert mode

Patent applications in “H01S OR H01L” over time



CPC drill down – one bar

Rank ▲ CPC Section

1	H
2	G
3	Y
4	C
5	B
6	F
7	A
8	E
9	D

1 465 954
351 309
324 487
243 904
193 571
58 510
10 691
3 314
1 153

Display options

Drill down / up:

☒ One bar

☐ All bars

Level:

☐ Section

☐ Class

☐ Subclass

☐ Group

☐ Subgroup

Sections:

☒ A

☒ B

☒ C

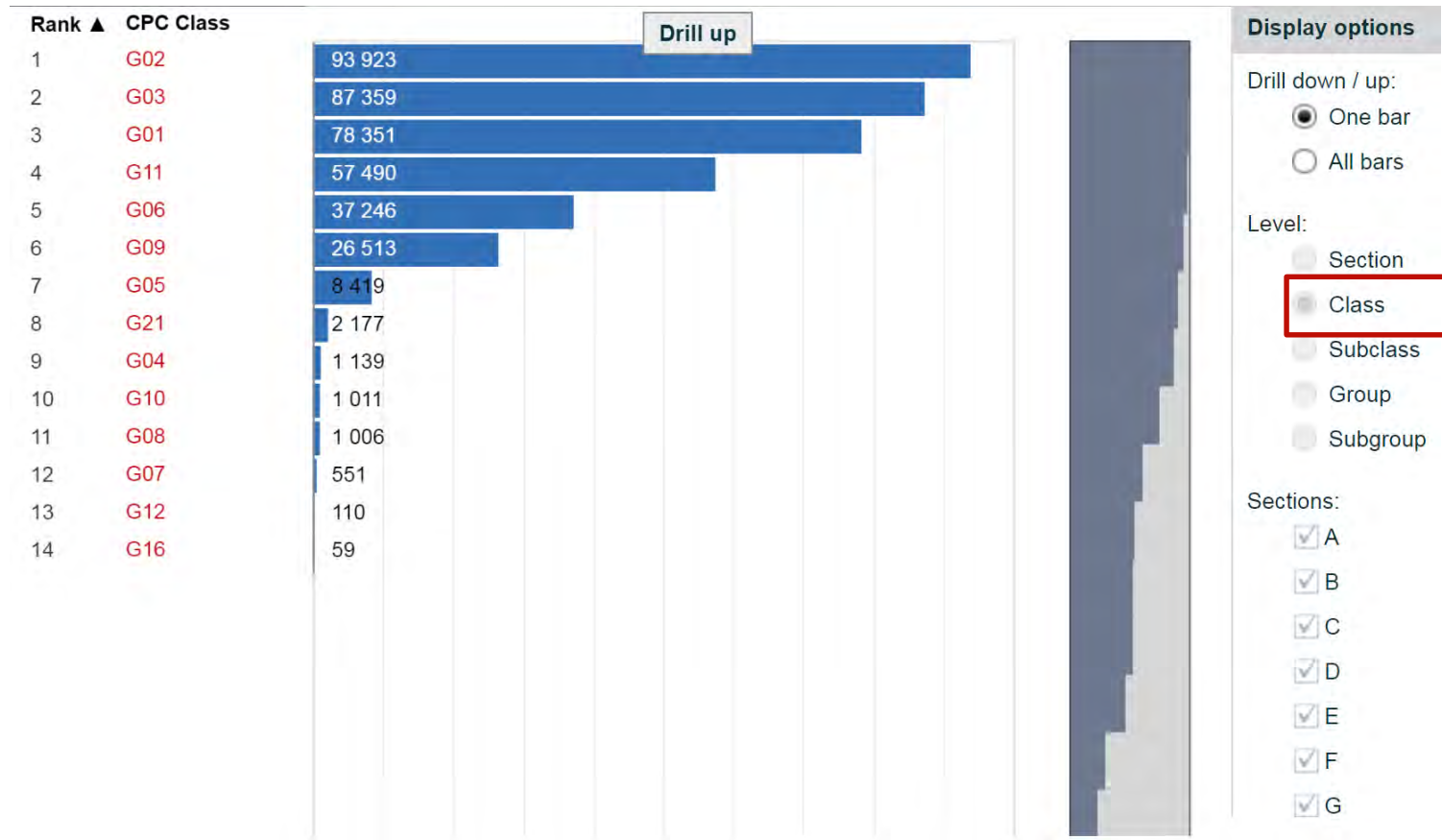
☒ D

☒ E

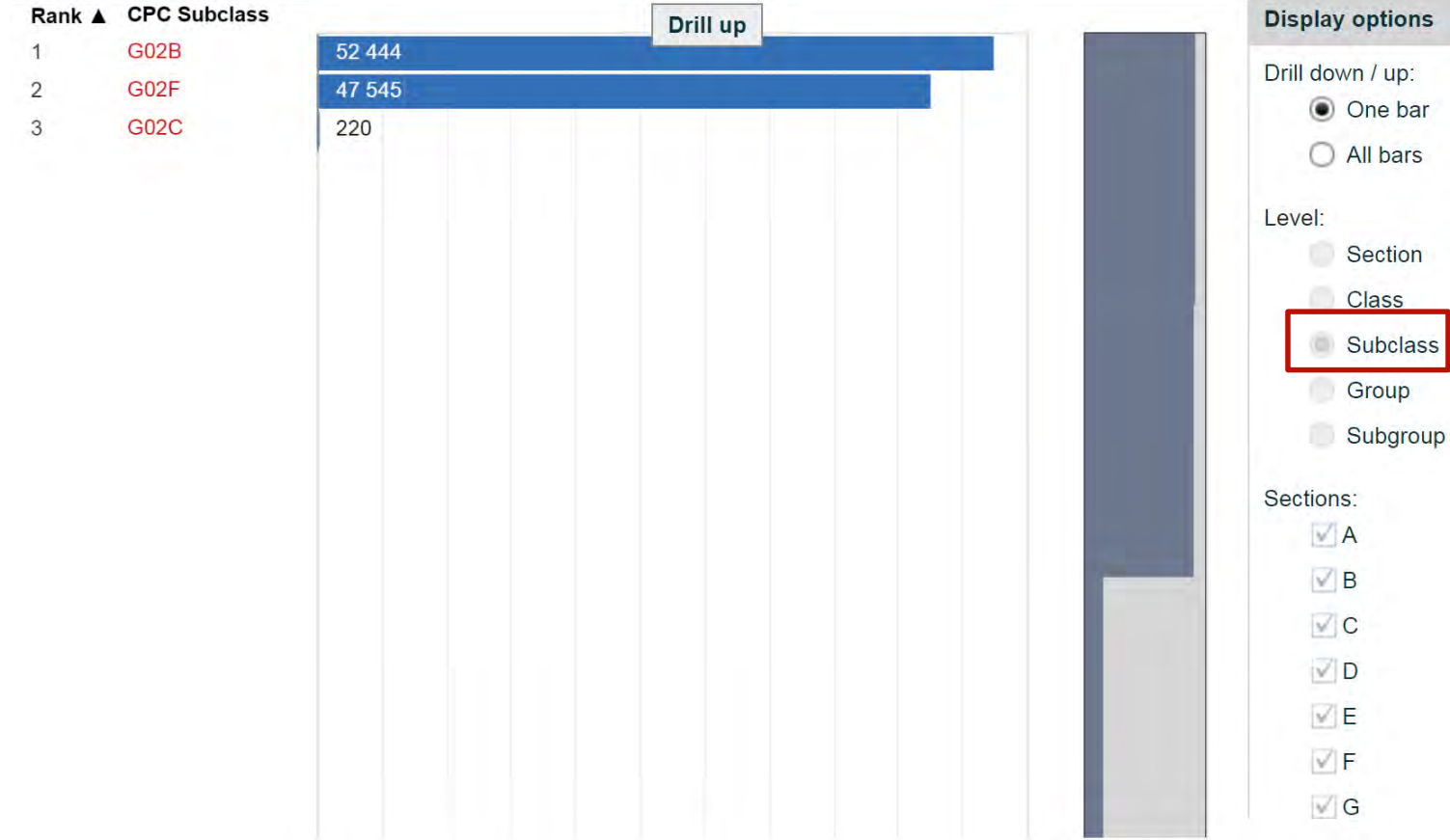
☒ F

☒ G

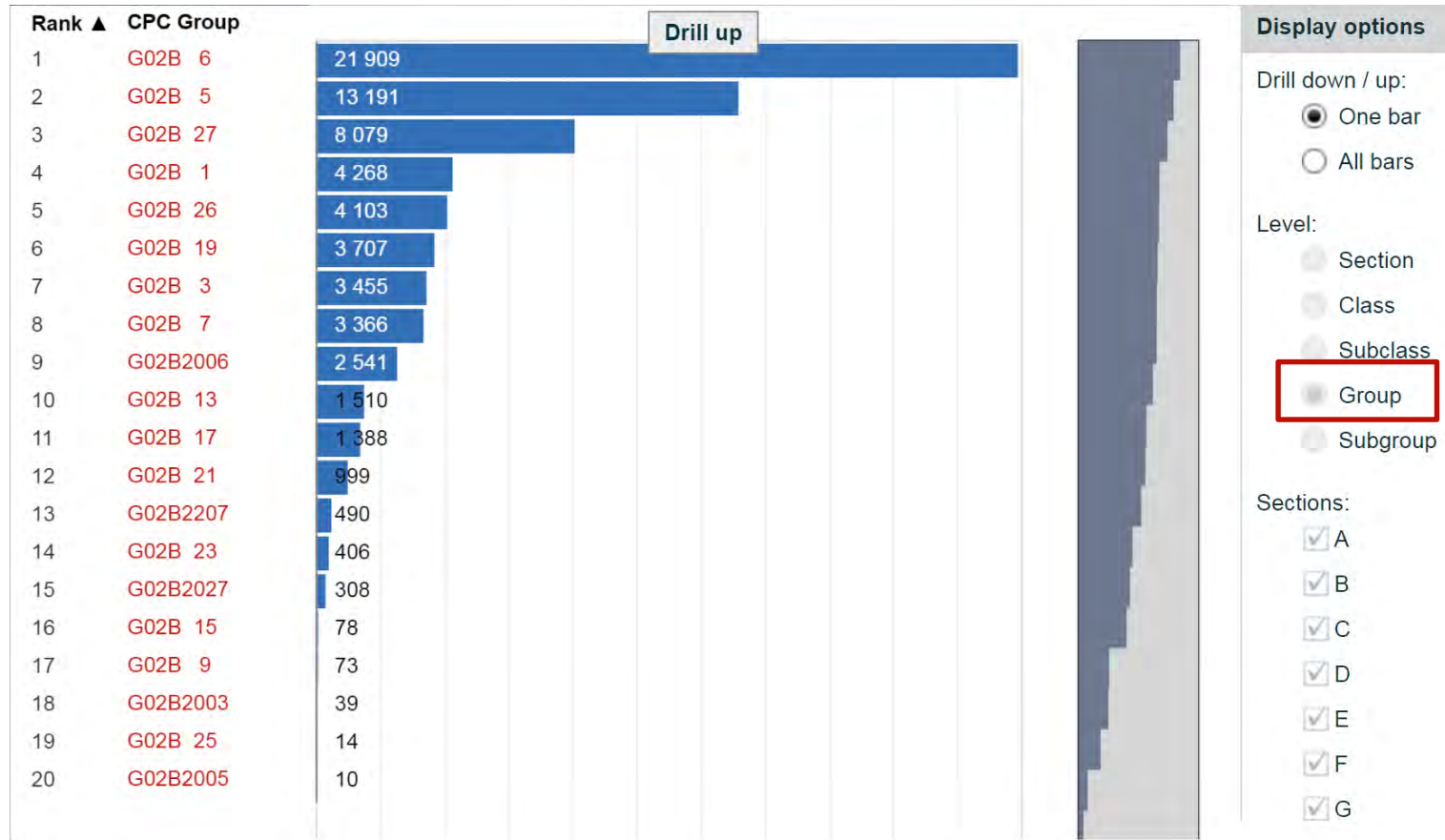
CPC drill down – one bar



CPC drill down – one bar



CPC drill down – one bar



CPC drill down – one bar

Rank ▲ CPC Subgroup

1 G02B 6/4214

1 992

Drill up

Display options

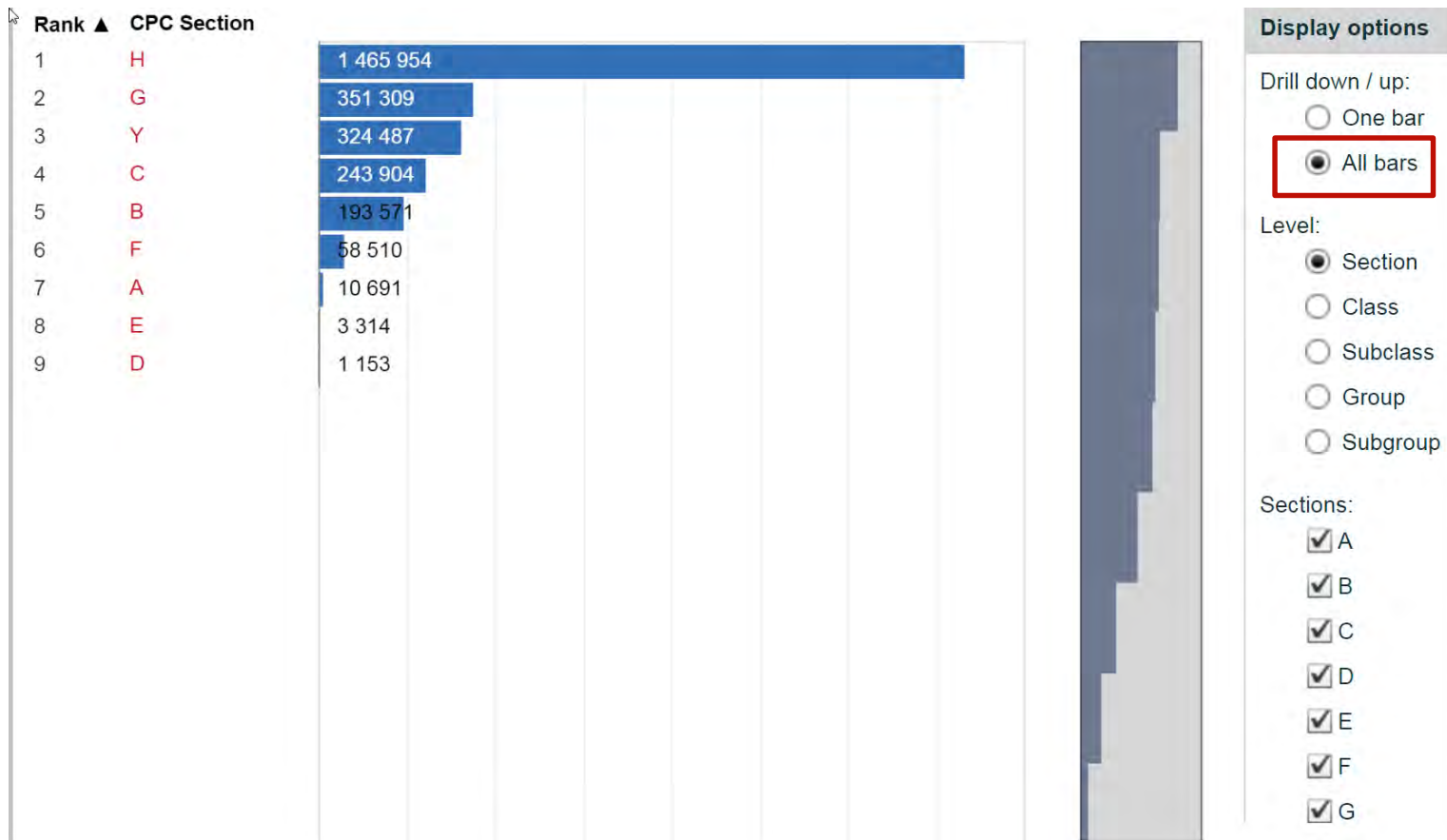
Drill down / up

Classification
symbol

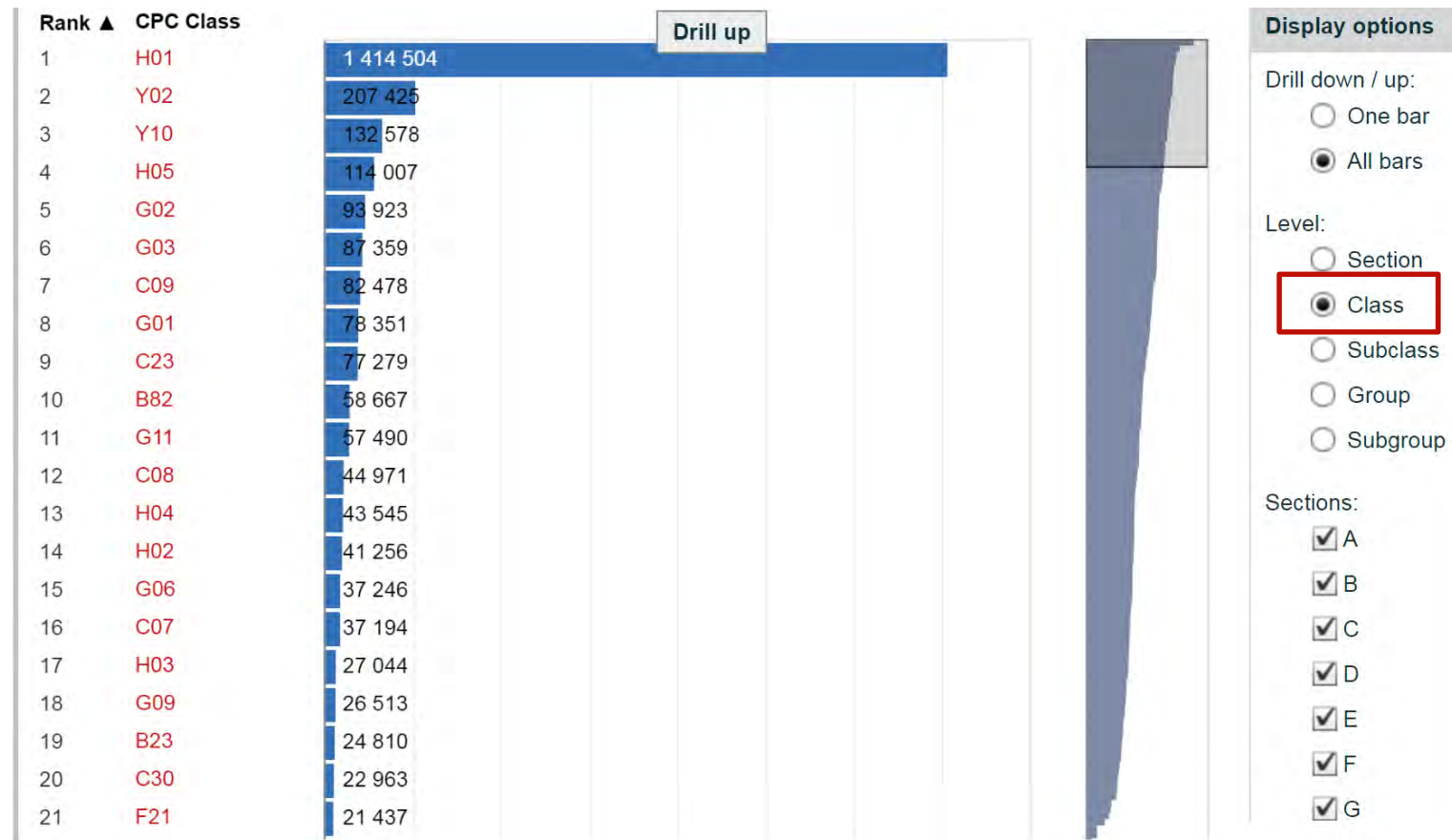
Title and description

<input type="checkbox"/> G	PHYSICS [2017-05]	<input type="checkbox"/> S <input type="checkbox"/> i
	INSTRUMENTS [2013-01]	
<input type="checkbox"/> G02	OPTICS [2019-05]	<input type="checkbox"/> i
<input type="checkbox"/> G02B	OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS (...) [2019-05]	<input type="checkbox"/> S <input type="checkbox"/> D <input type="checkbox"/> i <input type="checkbox"/> A
▲ <input type="checkbox"/> G02B 6/00	Light guides [2013-01]	<input type="checkbox"/> D
<input type="checkbox"/> G02B 6/24	•Coupling light guides (...) [2013-01]	<input type="checkbox"/> D
<input type="checkbox"/> G02B 6/42	••Coupling light guides with opto-electronic elements [2013-01]	<input type="checkbox"/> D <input type="checkbox"/> i
<input type="checkbox"/> G02B 6/4201	•••{Packages, e.g. shape, construction, internal or external details} [2013-01]	
<input type="checkbox"/> G02B 6/4204	••••{the coupling comprising intermediate optical elements, e.g. lenses, holograms (...) } [2013-01]	
<input type="checkbox"/> G02B 6/4214	•••••{the intermediate optical element having redirecting reflective means, e.g. mirrors, prisms for deflecting the radiation from horizontal to down- or upward direction toward a device (...) } [2013-01]	

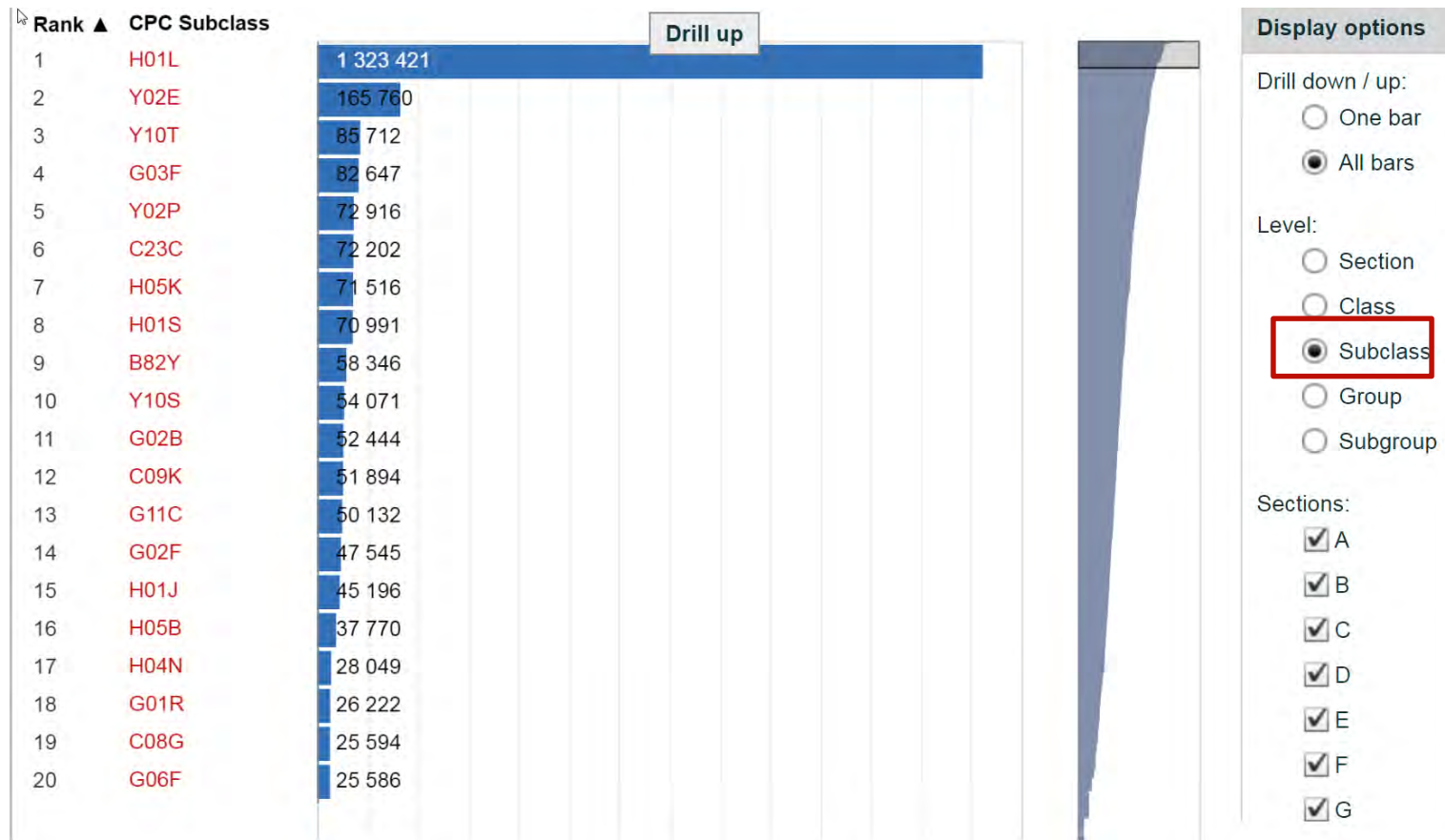
CPC drill down – all bars



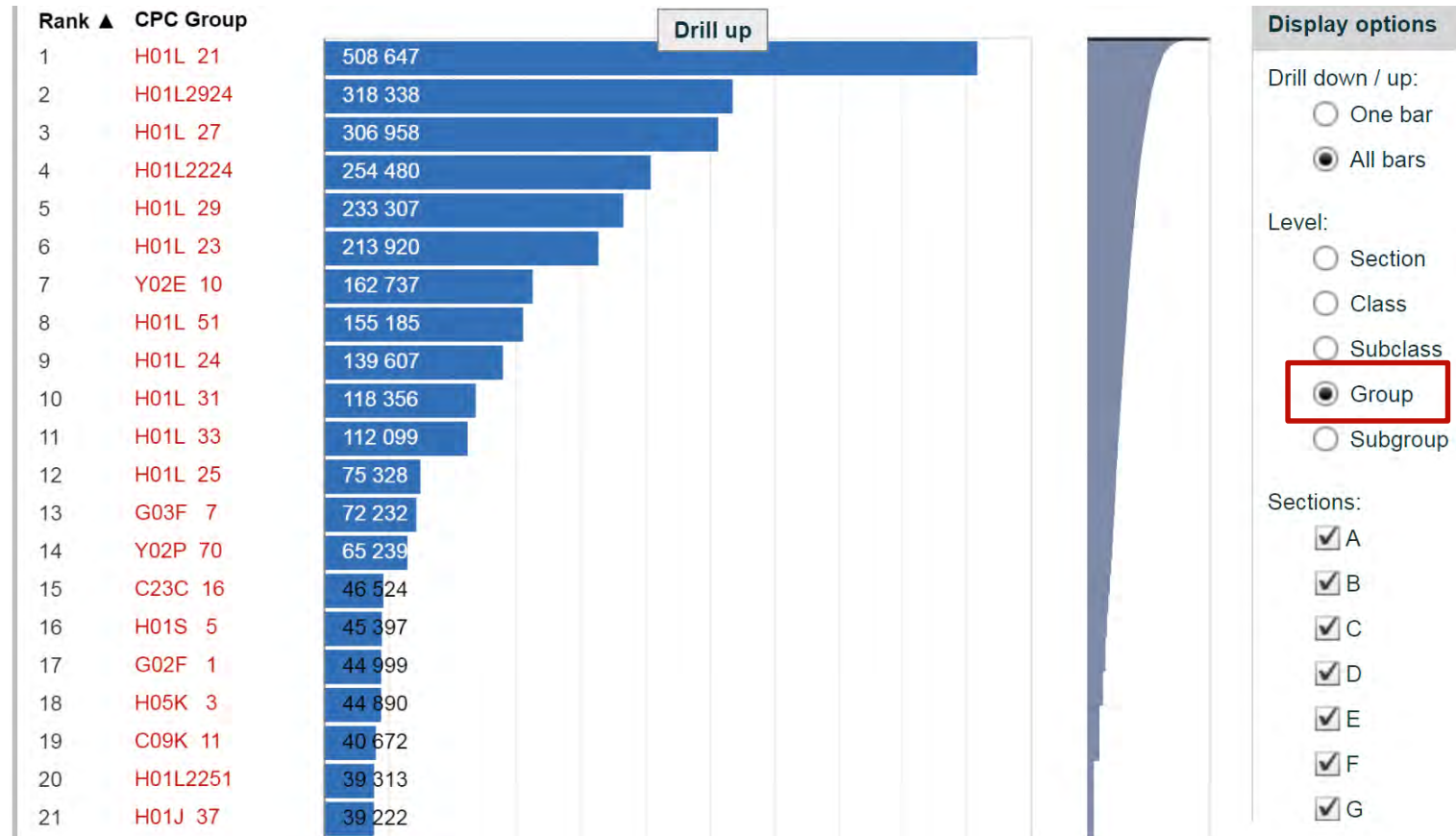
CPC drill down – all bars



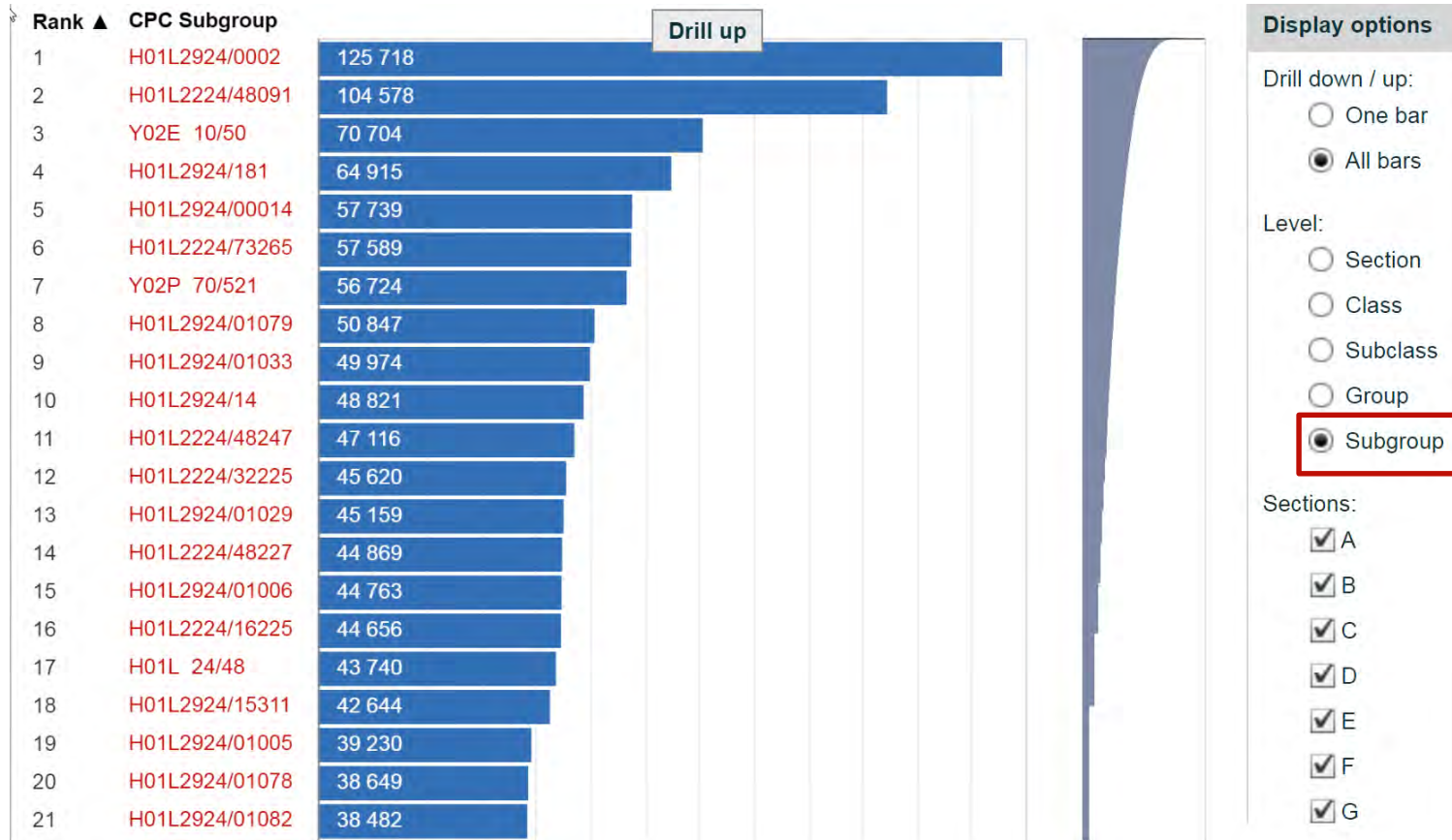
CPC drill down – all bars



CPC drill down – all bars



CPC drill down – all bars



Query Window layout: Expert mode

Various functions

The screenshot displays the Query Window layout in Expert mode. The interface includes a menu bar (Preferences, Download, Print, Help), a toolbar (Search, Table, Application, Statistics), and a status bar (mk-2 is using PATSTAT 2018 Autumn, Log out). The main area is divided into four panes:

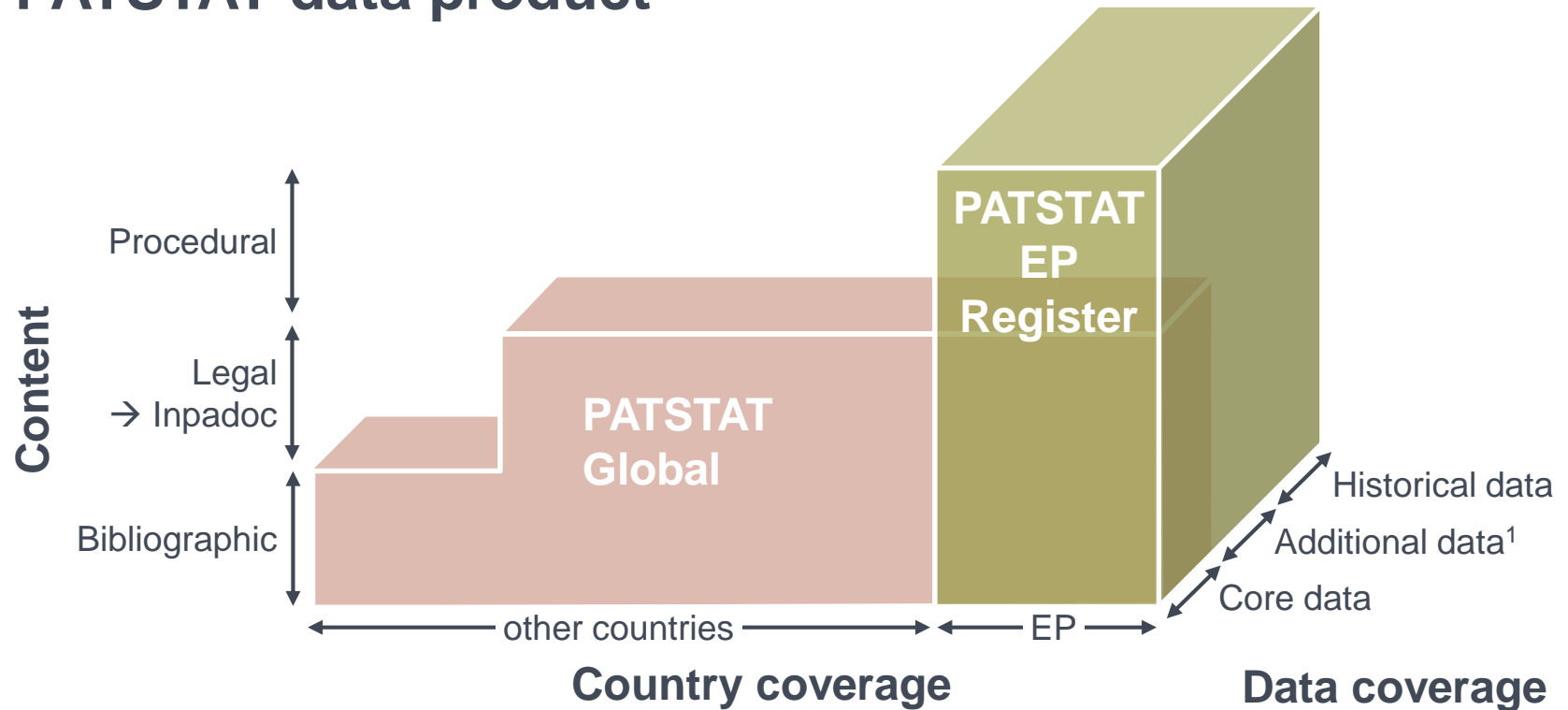
- Tables:** A tree view showing the database structure. The 'tis203_appln_abstr' table is selected, showing its attributes: 'appln_id', 'appln_abstract_lg', and 'appln_abstract'.
- Query:** A text editor containing the SQL query:

```
select *  
from tis201_appln  
where appln_filing_date between '2015-01-01' and '2017-12-31'
```
- Messages:** A log of database messages, including error messages and successful query results.
- History:** A table showing the execution history of queries.

The 'History' table contains the following data:

ID	Database	Result	Query
\$27	PATSTAT 2018 A...	10 766 920	select * from tis201_appln where appln_filing_date between '2015-01-01' and '2017-12-31'
\$26	PATSTAT 2018 A...	92 572	select * from tis201_appln

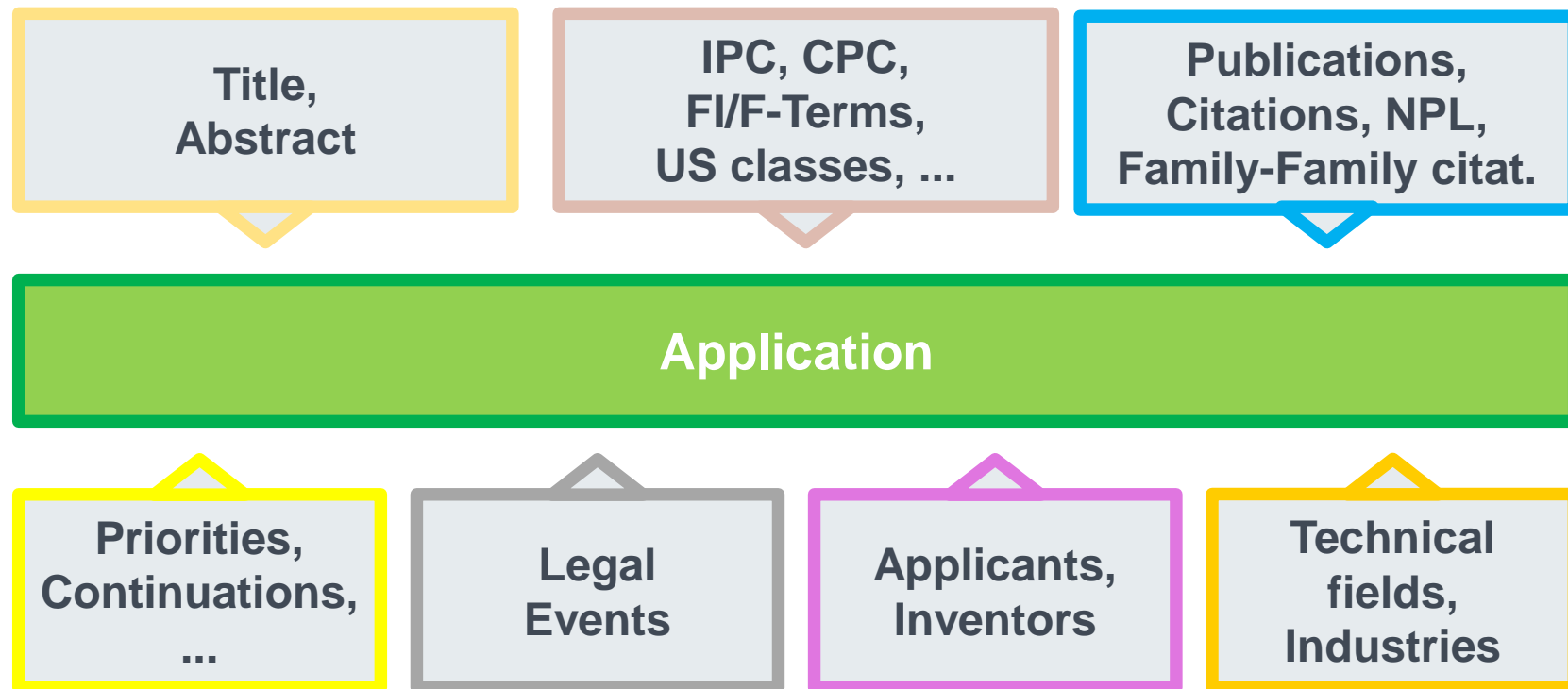
PATSTAT data product



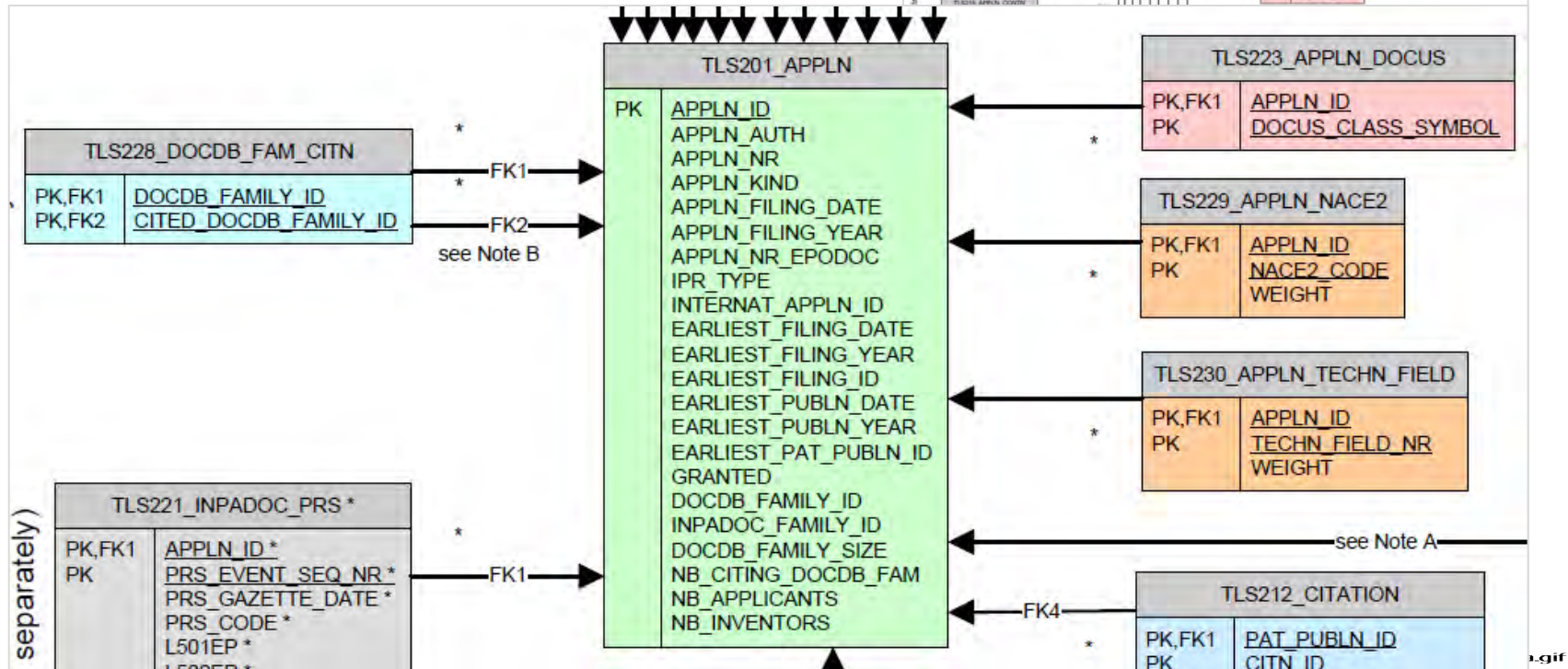
¹ Additional data: Professional representatives, status of the application, opponent, appeal, petition, limitations, procedural data, multiple language titles,

PATSTAT Global:

Worldwide bibliographic and legal events



Data model of PATSTAT Global

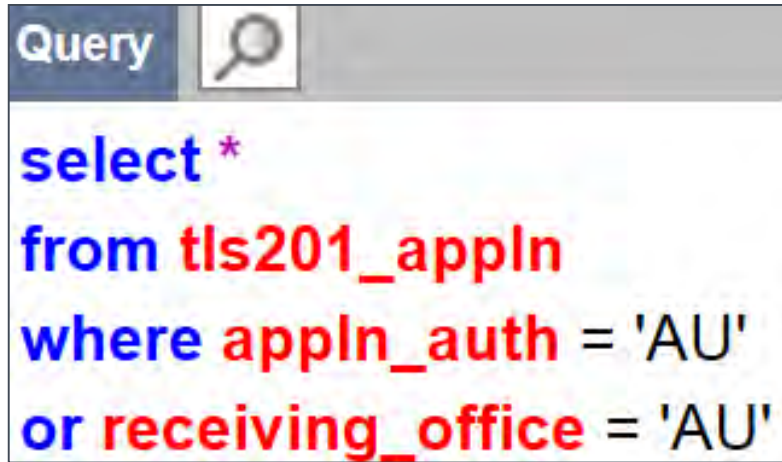


Source: PATSTAT Data Catalog v5.04

Query 1: Retrieve applications filed in Australia (national and PCT filings)

Please type in Query Window






(Note: AU is enclosed by **single** quotes)



and click on the search icon 

Table Window layout

Home Preferences Download Print Help Search Table Application Statistics gboedt is using PATSTAT 2019 Autumn Log out

Query     

```
SELECT *  
FROM tls201_appln  
WHERE appln_auth = 'AU'  
or receiving_office = 'AU'
```

Messages

10:35:31 AM [Result table, 0.072 secs, server #0] Data fetched
10:35:49 AM [Result table, 0.043 secs, server #0] Data fetched
10:35:54 AM [Result table, 0.038 secs, server #0] Data fetched
10:35:57 AM [Result table, 0.036 secs, server #0] Data fetched
10:36:00 AM [Result table, 0.036 secs, server #0] Data fetched
10:36:09 AM [SELECT - 33 224 row(s), 1.239 secs, server #0] Result set fetched
10:36:11 AM [Result table, 0.075 secs, server #0] Data fetched
10:36:12 AM [Result table, 0.023 secs, server #0] Data fetched
10:36:46 AM [SELECT - 33 224 row(s), 1.357 secs, server #0] Result set fetched
10:36:47 AM [Result table, 0.036 secs, server #0] Data fetched

Result table 1 / 33 224

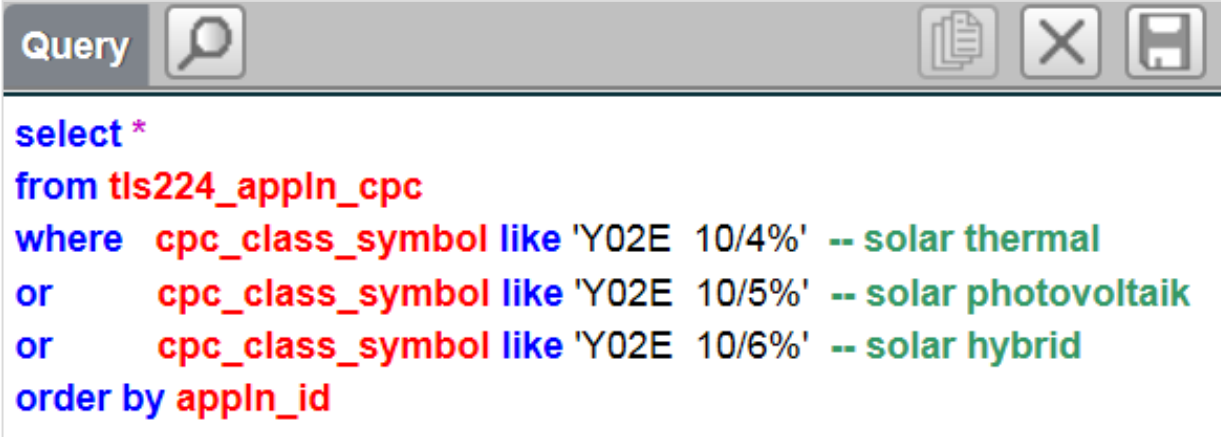
Row	appln_id	appln_auth	appln_nr	appln_kind	appln_filing_date	appln_filing_year	appln_nr_epod...	appln_nr_origi...	ipr_type	receiving_office	internat_appln...	int_phase	reg_ph:
1	419848595	WO	2014000001	W	2014-01-02	2014	WO2014AU00001	AU2014/000001	PI	AU	0	Y	N
2	419848597	WO	2014000002	W	2014-01-02	2014	WO2014AU00002	AU2014/000002	PI	AU	0	Y	N
3	443296726	AU	2014204085	A	2014-01-02	2014	AU20140204085	2014204085	PI		419850315	Y	N
4	443296728	AU	2014204247	A	2014-01-02	2014	AU20140204247	2014204247	PI		419849303	Y	N
5	456844274	AU	2014374459	A	2014-01-02	2014	AU20140374459	2014374459	PI		442221083	Y	N
6	444248753	AU	2014206114	A	2014-01-02	2014	AU20140206114	2014206114	PI		413980181	Y	N
7	444248771	AU	2014207859	A	2014-01-02	2014	AU20140207859	2014207859	PI		414303572	Y	N
8	444253177	AU	2014204041	A	2014-01-02	2014	AU20140204041	2014204041	PI		414635366	Y	N
9	440964250	AU	2014204347	A	2014-01-02	2014	AU20140204347	2014204347	PI		413593364	Y	N
10	440964274	AU	2014207862	A	2014-01-02	2014	AU20140207862	2014207862	PI		414236760	Y	N
11	416482885	AU	2014200002	A	2014-01-02	2014	AU20140200002	2014200002	PI		0	N	N

Result Table = result of a query


Query 2: Solar energy generation

Please type in Query Window

(Note: The %-sign serves as a wild card if used with LIKE.
There are two(!) spaces within the CPC symbol.)



```
select *  
from tls224_appln_cpc  
where cpc_class_symbol like 'Y02E 10/4%' -- solar thermal  
or     cpc_class_symbol like 'Y02E 10/5%' -- solar photovoltaik  
or     cpc_class_symbol like 'Y02E 10/6%' -- solar hybrid  
order by appln_id
```

and click on the search icon 

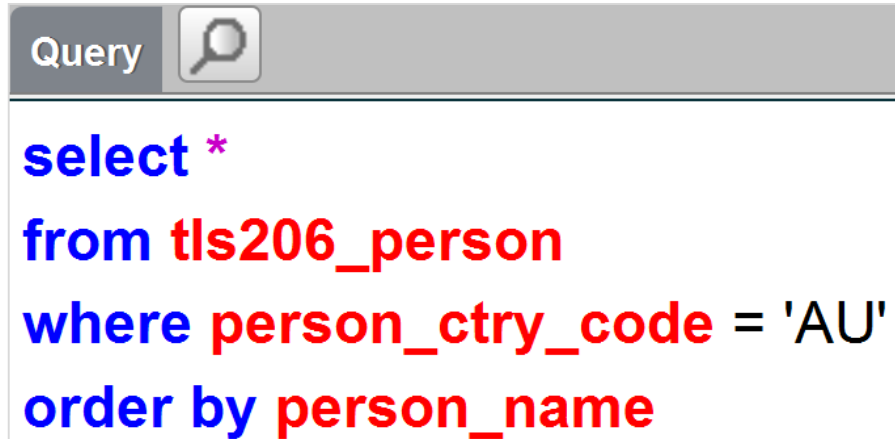
Query 2: Solar energy generation

Result table 1 / 154 321							
Row	appln_id	cpc_class_sy...	cpc_scheme	cpc_version	cpc_value	cpc_position	cpc_gener_auth
1	318	Y02E 10/47	CPC	2013-01-01	A	L	EP
2	375	Y02E 10/47	CPC	2013-01-01	A	L	EP
3	605	Y02E 10/46	CPC	2013-01-01	A	L	EP
4	990	Y02E 10/47	CPC	2013-01-01	A	L	EP
5	990	Y02E 10/44	CPC	2013-01-01	A	L	EP
6	3518	Y02E 10/47	CPC	2013-01-01	A	L	EP
7	4366	Y02E 10/44	CPC	2013-01-01	A	L	EP
8	7510	Y02E 10/47	CPC	2013-01-01	A	L	EP
9	7547	Y02E 10/47	CPC	2013-01-01	A	L	EP
10	8571	Y02E 10/47	CPC	2013-01-01	A	L	EP
11	8571	Y02E 10/44	CPC	2013-01-01	A	L	EP
12	13806	Y02E 10/44	CPC	2013-01-01	A	L	EP
13	13806	Y02E 10/465	CPC	2013-01-01	A	L	EP
14	13806	Y02E 10/41	CPC	2013-01-01	A	L	EP
15	15140	Y02E 10/44	CPC	2013-01-01	A	L	EP
16	15600	Y02E 10/44	CPC	2013-01-01	A	L	EP
17	16728	Y02E 10/47	CPC	2013-01-01	A	L	EP

Applications can have multiple CPC codes !

Query 3: Australian applicants / inventors

Please type in Query Window

A screenshot of a query window interface. It has a grey header bar with the word 'Query' on the left and a magnifying glass icon on the right. Below the header is a white text area containing a SQL query. The query is: 'select * from tls206_person where person_ctry_code = 'AU' order by person_name'. The words 'select', 'from', 'where', and 'order by' are in blue, while the table name 'tls206_person' and the column 'person_name' are in red. The value 'AU' is in black.

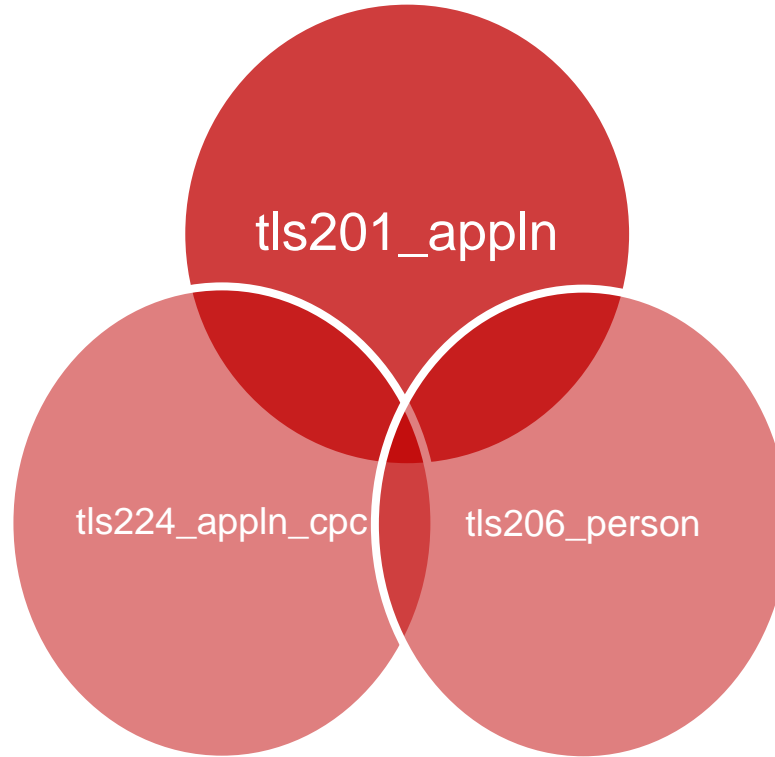
```
select *  
from tls206_person  
where person_ctry_code = 'AU'  
order by person_name
```

and click on the search icon 

Query 3: Australian applicants / inventors

Result table 1 / 147 105					
Row	person_id	person_name	person_address	person_etry_code	psn_sector
1	74	Chiltern Pharmaceuticals Pty Ltd.	Suite 701, 1 Chifley Square,Sydney, NSW 2000	AU	COMPANY
2	2567	Biosceptre International Limited	Suite 309, 56 Delhi Road,North Ryde, New South Wales 2113	AU	COMPANY
3	2570	Biosceptre Pty Ltd	Level 10, 26 O'Connell Street,Sydney, NSW 2000	AU	COMPANY
4	2749	Silverbrook Research Pty. Limited	393 Darling Street, P.O. Box 207,Balmain, NSW 2041	AU	COMPANY
5	3090	GRADIPORE LIMITED	22 Rodborough Road,Frenchs Forest, New South Wales 2086	AU	COMPANY
6	3156	Bosa Manufacturing PTY Limited	4/4 Ethel Road,Kirrawee, New South Wales 2232	AU	COMPANY
7	3337	PATRYS LIMITED	Level 2 517 Flinders Lane,Melbourne VIC 3000	AU	COMPANY
8	3818	Silverbrook Research Pty. Limited	393 Darling Street,Balmain, NSW 2041	AU	COMPANY
9	3990	HYDROCO (AUSTRALIA) PTY LTD	22 Pascal Road,Seaford, Victoria 3198	AU	COMPANY
10	4429	The State of Queensland acting through Queensland Health	147 -163 Charlotte Street,Brisbane QLD 4000	AU	GOV NON-PROFIT
11	4785	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RES...	Limestone Avenue Campbell,Australian Capital Territory 2612	AU	GOV NON-PROFIT
12	5937	JOHNSON & JOHNSON RESEARCH PTY LIMITED	Level 4 1 Central Avenue,Eveleigh, NSW 1430	AU	COMPANY
13	5943	Medihoney Pty Ltd	399 Archerfield Road,Richlands, Queensland 4077	AU	COMPANY
14	6091	I.N.C. Corporation Pty. Ltd.	63-67 South Park Drive,South Dandenong VIC 3175	AU	COMPANY
15	6346	Commonwealth Scientific and Industrial Research Organis...	Limestone Avenue,Campbell, ACT 2612	AU	GOV NON-PROFIT
16	6354	Coolrock Software Pty Ltd	Level 1, 90 William Street,Melbourne, Victoria 3000	AU	COMPANY
17	6356	ACQUA INTERNATIONAL GROUP INC	Tok H, Corp. Centre, Level 1 459 Toorak Road,Toorak VIC 3142	AU	COMPANY
18	9171	CSL Limited	45 Poplar Road,Parkville VIC 3052	AU	COMPANY

Next step: Join the tables = make 1 table from many



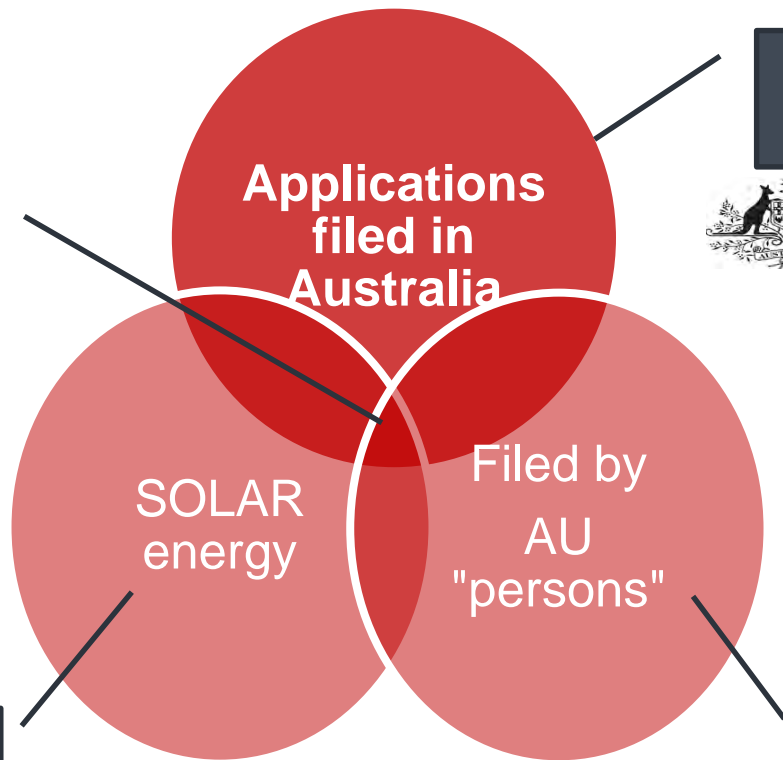
Next step



?



365.830
applications



1.682.484
applications



Australian Government
IP Australia

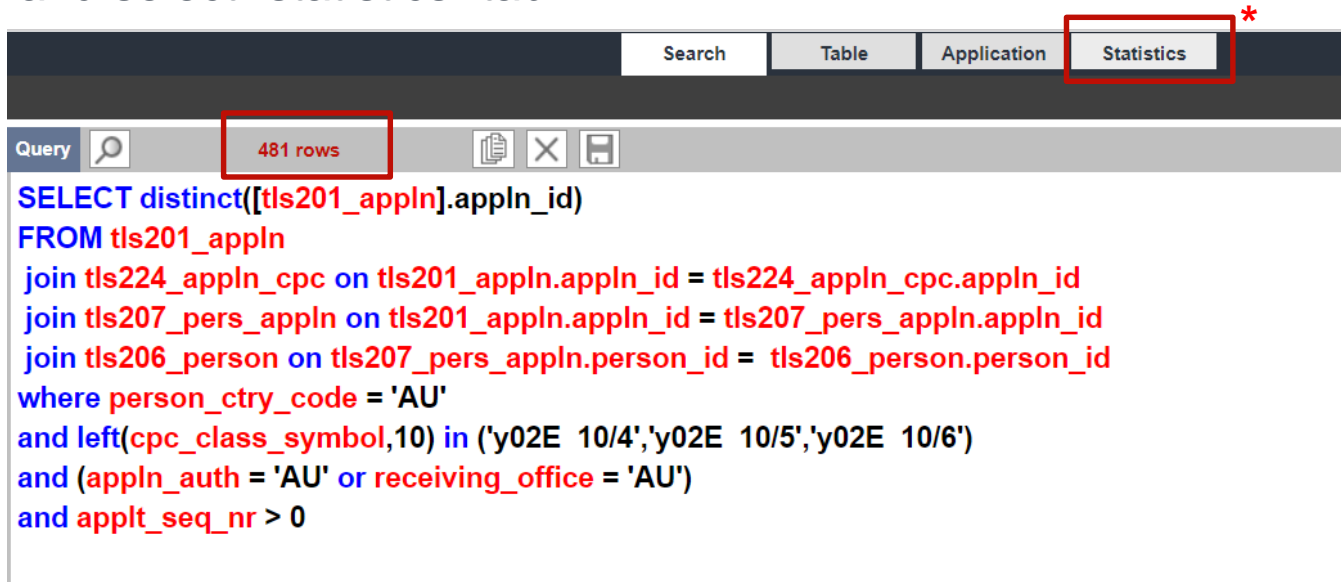


330.978
'PERSONS'

What is the most important patent filed in Australia in the field of "solar energy" ?

Step 1

- Execute an SQL query to define your data sample* and select "statistics" tab.



The screenshot shows a database management interface. At the top, there are four tabs: "Search", "Table", "Application", and "Statistics". The "Statistics" tab is selected and highlighted with a red box and an asterisk (*). Below the tabs, there is a "Query" section with a magnifying glass icon and a red box containing the text "481 rows". To the right of this box are three icons: a document, a close button (X), and a save button. Below the "Query" section, the SQL query is displayed in a monospace font:

```
SELECT distinct([tls201_appln].appln_id)
FROM tls201_appln
join tls224_appln_cpc on tls201_appln.appln_id = tls224_appln_cpc.appln_id
join tls207_pers_appln on tls201_appln.appln_id = tls207_pers_appln.appln_id
join tls206_person on tls207_pers_appln.person_id = tls206_person.person_id
where person_etry_code = 'AU'
and left(cpc_class_symbol,10) in ('y02E 10/4','y02E 10/5','y02E 10/6')
and (appln_auth = 'AU' or receiving_office = 'AU')
and applt_seq_nr > 0
```

***to do statistics:** appln_id in the SELECT clause !

Statistics Window:

**Built-in cross reference charts
AND
Patent value indicator**

- What is the most important patent filed in Australia in the field of "solar energy" ?
- Who are the most prolific Australian applicants (or inventors) filing "solar energy patents" in Australia?

Step 2

- Choose “Patent indicator”

The screenshot shows the European Patent Office software interface. At the top, there is a navigation bar with tabs: Home, Search, Table, Result, and Statistics. Below this, there is a secondary bar with buttons: 'Configure / view statistics', 'Cross-reference' (with a dropdown arrow), and 'Parameters'. The 'Cross-reference' dropdown menu is open, showing two options: 'Cross-reference' and 'Patent indicator', with the latter highlighted by a red rectangle. To the right, the 'Parameters for patent indicator' dialog box is open. It contains the following fields and controls:

- Technical field:** A dropdown menu set to 'all'.
- Sort by:** A dropdown menu set to 'A-number cited (DocDB family-family citation)'.
- Coefficients for:** A table with five rows, each with a coefficient name, a numerical input field, and a function button.
- Offset:** A text input field set to '0'.
- Coefficient normalized form:** A text area displaying the formula $1.00 \cdot A + 0.00 \cdot B + 0.00 \cdot C + 0.00 \cdot D + 0.00 \cdot E$.
- Training set:** A text input field and a 'Training set' button.
- Average error:** A text input field.
- Buttons:** 'Save parameters', 'Load parameters', 'Calculate', and 'Cancel' at the bottom.

Coefficients for	Value	Function
A-number cited (DocDB family-family citation)	1	f(A)
B-size of family	0	f(B)
C-number of applicants	0	f(C)
D-number of inventors	0	f(D)
E-grant	0	f(E)

Composition of the patent indicator:

- Number of citations (family)
- Size of the patent family
- Number of applicants
- Number of inventors
- Granted or not

Coefficients can be given weights

Step 3

- Calculate the patent indicator

Parameters for patent indicator

Technical field **all** ▼

Sort by **A-number cited (DocDB family-family citation)** ▼

Coefficients for

A-number cited (DocDB family-family citation)	1	f(A)
B-size of family	0	f(B)
C-number of applicants	0	f(C)
D-number of inventors	0	f(D)
E-grant	0	f(E)

Offset **0**

Coefficient normalized form

1.00*A + 0.00*B + 0.00*C + 0.00*D + 0.00*E

Training set Training set

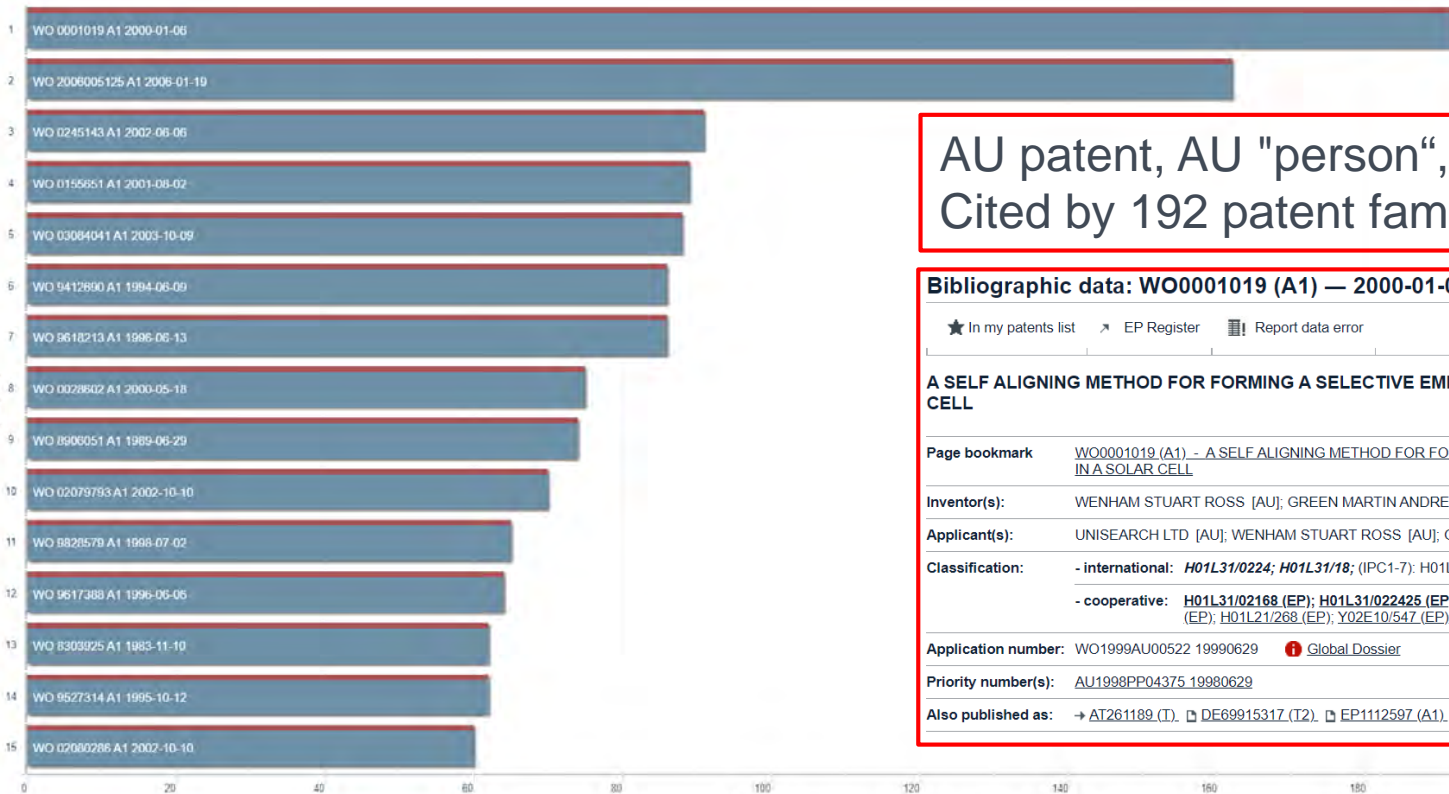
Average error

Save parameters Load parameters **Calculate** Cancel



Step 4

Results



AU patent, AU "person", SOLAR power
Cited by 192 patent families !

Bibliographic data: WO0001019 (A1) — 2000-01-06

★ In my patents list

EP Register

Report data error

Print

A SELF ALIGNING METHOD FOR FORMING A SELECTIVE EMITTER AND METALLIZATION IN A SOLAR CELL

Page bookmark [WO0001019 \(A1\) - A SELF ALIGNING METHOD FOR FORMING A SELECTIVE EMITTER AND METALLIZATION IN A SOLAR CELL](#)

Inventor(s): WENHAM STUART ROSS [AU]; GREEN MARTIN ANDREW [AU] ±

Applicant(s): UNISEARCH LTD [AU]; WENHAM STUART ROSS [AU]; GREEN MARTIN ANDREW [AU] ±

Classification: - international: [H01L31/0224](#); [H01L31/18](#); (IPC1-7): H01L31/18

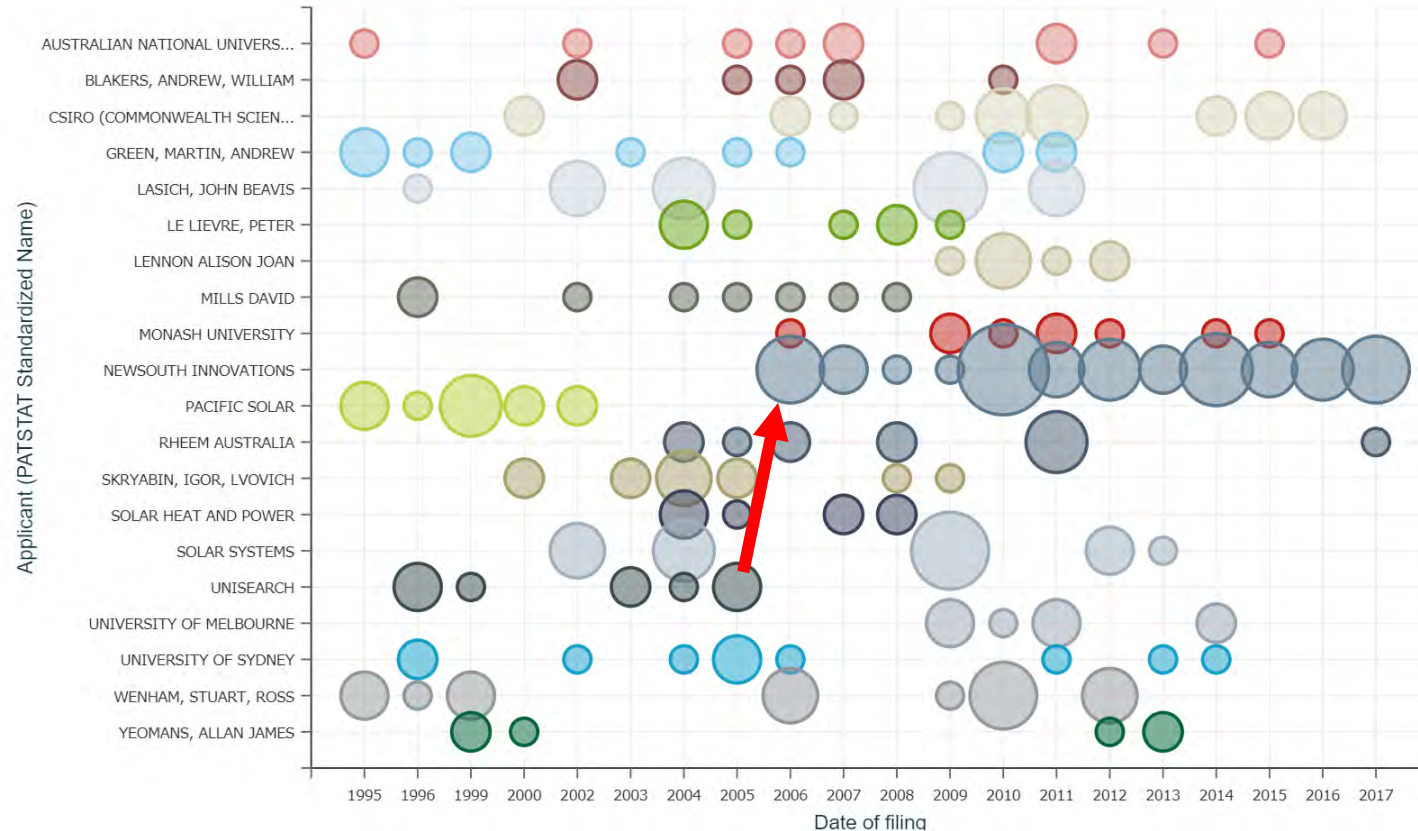
- cooperative: [H01L31/02168 \(EP\)](#); [H01L31/022425 \(EP\)](#); [H01L31/1804 \(EP\)](#); [H01L21/2254 \(EP\)](#); [H01L21/2255 \(EP\)](#); [H01L21/268 \(EP\)](#); [Y02E10/547 \(EP\)](#); [Y02P70/521 \(EP\)](#)

Application number: WO1999AU00522 19990629 [Global Dossier](#)

Priority number(s): [AU1998PP04375 19980629](#)

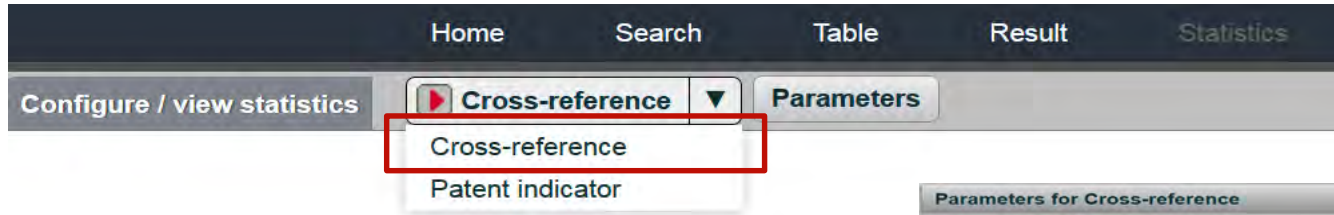
Also published as: → [AT261189 \(T\)](#); [DE69915317 \(T2\)](#); [EP1112597 \(A1\)](#); [EP1112597 \(A4\)](#); [EP1112597 \(B1\)](#); → [more](#)

Who are the most prolific Australian applicants ?



Step 2

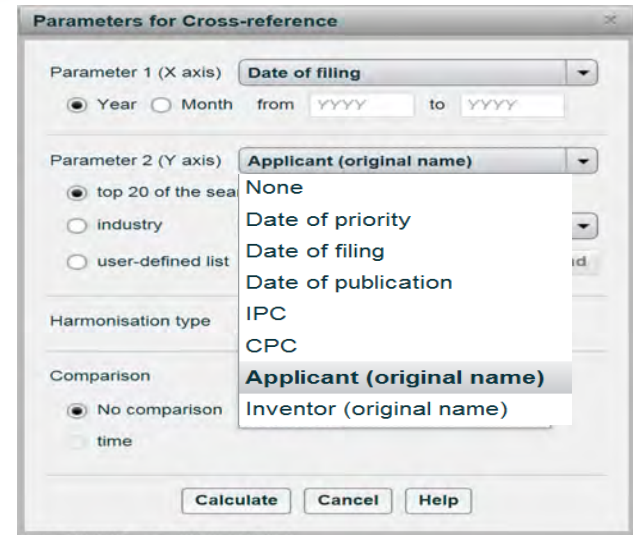
- Choose “Cross-reference” & calculate



Composition of the cross reference

- Define X-axis parameter
- Define Y-axis parameter

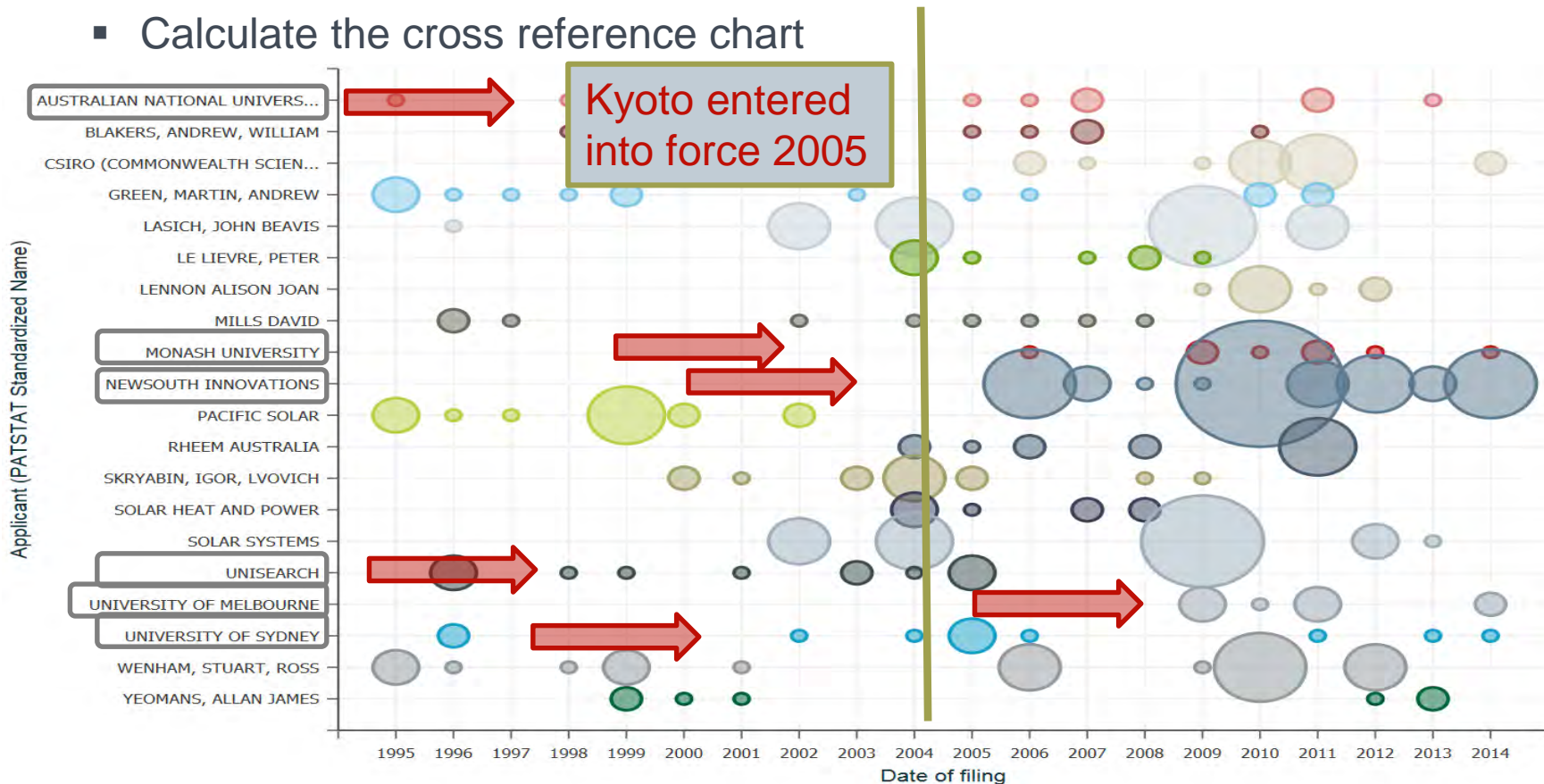
Which one's do you take ?



Step 3

Top applicants

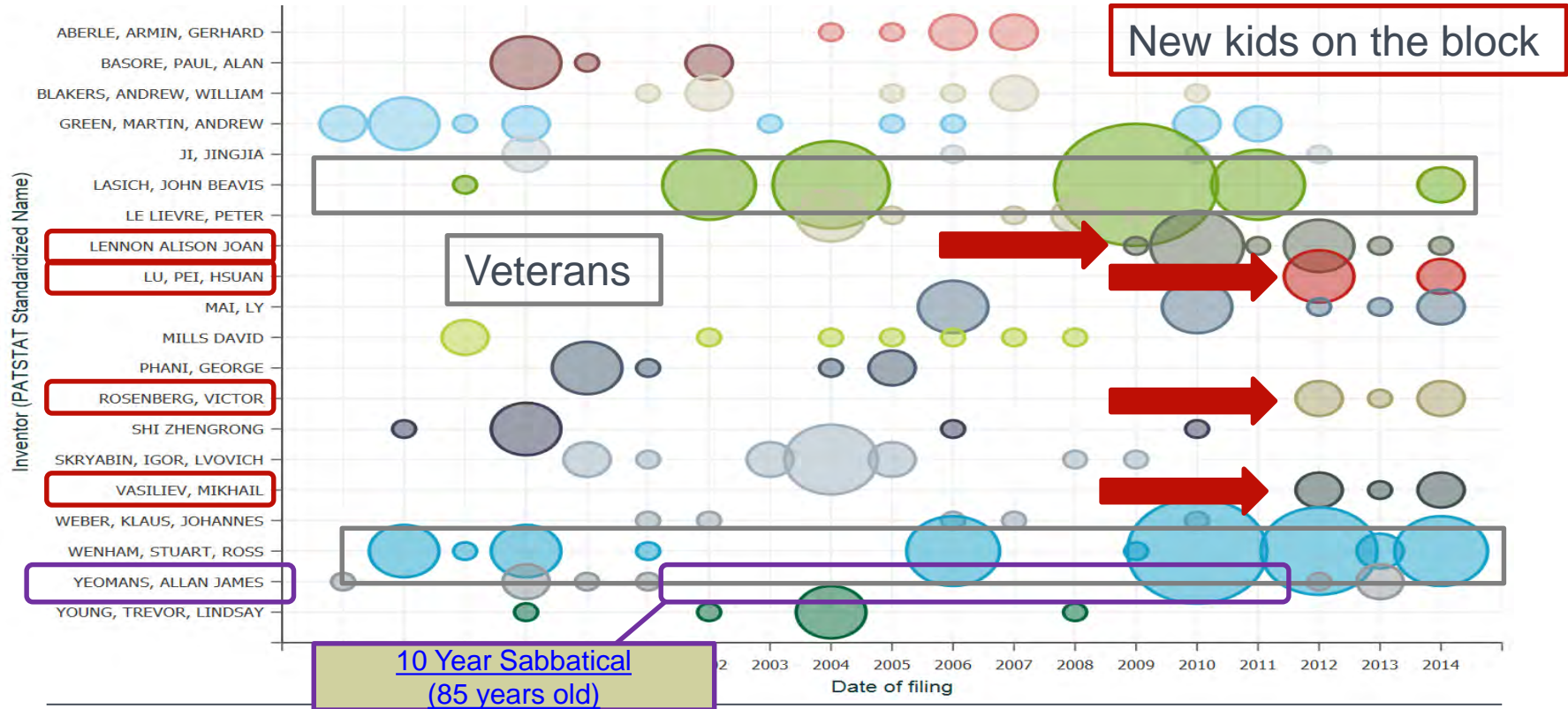
- Calculate the cross reference chart







Step 3

Top inventors

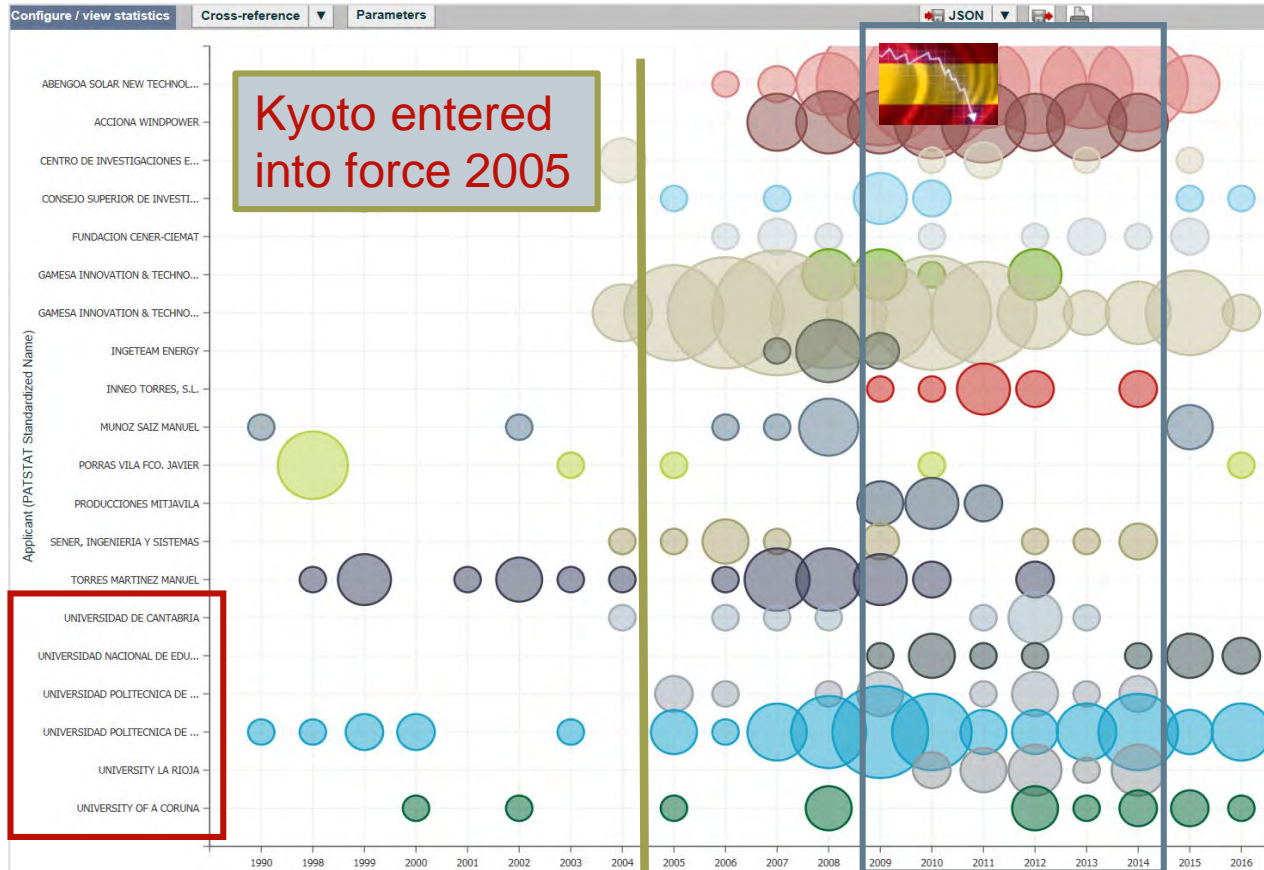
- Calculate the cross reference chart



Same for Spain → 2 clicks away.

```
Query  3 404 rows     
SELECT tls201_appln.appln_id  
FROM tls201_appln join tls224_appln_cpc on tls201_appln.appln_id = tls224_appln_cpc.appln_id  
join tls207_pers_appln on tls201_appln.appln_id = tls207_pers_appln.appln_id  
join tls206_person on tls207_pers_appln.person_id = tls206_person.person_id  
where person_ctr_code = 'ES'  
and left(cpc_class_symbol,10) in ('y02E 10/4','y02E 10/5','y02E 10/6')  
and (appln_auth = 'ES' or receiving_office = 'ES')  
and applt_seq_nr > 0
```

Same for Spain → 2 clicks away.



When PATSTAT Online is not enough...

Advanced data download

Subset download: Download multiple tables as a database

Select option
“PATSTAT Subset”

Free description

Select download format

Select required tables


Powerful expansion options

The screenshot shows the 'Prepare download' dialog box with the following fields and options:

- What:** A dropdown menu set to 'PATSTAT subset'.
- Description:** A text box containing 'Query history', 'Result table', and 'PATSTAT subset' (highlighted).
- Format:** A dropdown menu set to 'PATSTAT subset'.
- Application seed:** A text box containing 'Application' and 'Statistics chart'.
- Table subsets:** A list of checkboxes for selecting tables:
 - ☒ Worldwide
 - ☒ tls201_appln
 - ☐ tls202_appln_title
 - ☐ tls203_appln_abstr
 - ☐ tls204_appln_prior
 - ☐ tls205_tech_rel
 - ☒ tls207_pers_appln
- Data Expansion:** A section with three checkboxes:
 - ☒ Include family members of all applications
 - ☒ Simple / docdb family
 - ☐ Inpadoc family
 - ☒ Include citing / cited applications

At the bottom are 'OK' and 'Cancel' buttons.

Download manager: files are 72 hours available.

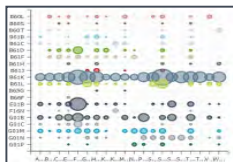
Download manager						
Query	Format	Type	Status	Size	Deletion time	Action
PATSTAT 2016 Spring - SELECT distinct tl... FROM tls201_appln JOIN tls224_appln_cpc O JOIN tls207_pers_appln ON tls201_appln.appln_id = tls207_pers_app JOIN tls206_person ON...	PDF	Application	Ready	4 MB	Expires in 72 hours	 
PATSTAT 2016 Spring - SELECT distinct tl... FROM tls201_appln JOIN tls224_appln_cpc O JOIN tls207_pers_appln ON tls201_appln.appln_id = tls207_pers_app JOIN tls206_person ON...	CSV	Result table	Ready	7 KB	Expires in 71 hours	 
PATSTAT 2016 Spring - SELECT distinct tl... FROM tls201_appln JOIN tls224_appln_cpc O JOIN tls207_pers_appln ON tls201_appln.appln_id = tls207_pers_app JOIN tls206_person ON...	CSV	Result table	Ready	279 B	Expires in 71 hours	 
<div>Clear list</div> <div>Hide</div>						

Summary of visualisation and download options

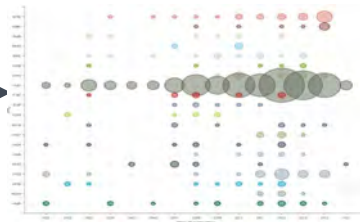
Download of PATSTAT query results for local analysis and visualization



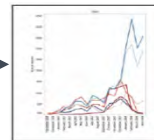
PATSTAT Online



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graphs (pdf)
on user's PC

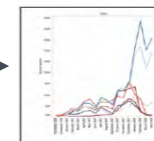


Download
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on user's PC



local analysis / visualization
**(multiple tables in
PATSTAT data structure)**







Download
Result Table
on user's PC



local analysis / visualization
(single table)

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€ 755,00	€ 490,00	€ 250,00
2020	2020	2020
		

<https://forms.epo.org/service-support/ordering/databases-order-form.html#epoHeader>

Free trial of PATSTAT Online

epo.org/patstat

The screenshot shows the PATSTAT Online website. At the top, there is a header with the EPO logo, a search bar, and links for 'Website' and 'Patents'. Below the header is a navigation bar with links: 'Home', 'Searching for patents', 'Applying for a patent', 'Law & practice', 'News & issues', 'Learning & events', and 'About us'. The main content area features a breadcrumb trail: 'Home > Searching for patents > Business information > PATSTAT'. On the left, there are two tabs: 'PATSTAT' (selected) and 'IPscore'. The main heading 'PATSTAT' is displayed. To the right of the heading are 'Print' and 'Share' icons. Below the heading is a large image showing a grid of pie charts. Underneath the image, the text reads: 'Backbone data set for statistical analysis'. A paragraph follows: 'The EPO's PATSTAT has become a point of reference in the field of patent intelligence and statistics. It helps you perform sophisticated statistical analyses of bibliographical and legal status patent data.' Below this text are three buttons: 'Order', 'Open PATSTAT Online', and 'Test PATSTAT Online for free' (which is highlighted with a red box). To the right of the main content area, there is a 'Support' section with the text 'Talk to EPO experts or get help from other users' and a link 'Visit the discussion forum'. Below that is a 'Contact' section with a link 'Contact us'. At the bottom right, there is a 'PATSTAT Online' section with the text 'Free webinar on 5 February 2019 at 10.30 hrs (CET)' and a link 'Register now'. At the very bottom of the page, there is a paragraph: 'PATSTAT contains bibliographical and legal status patent data from leading industrialised and developing countries. This is extracted from the EPO's databases and is either provided as bulk data or can be consulted online.'

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> Register now

Backbone data set for statistical analysis

The EPO's PATSTAT has become a point of reference in the field of patent intelligence and statistics. It helps you perform sophisticated statistical analyses of bibliographical and legal status patent data.

Order Open PATSTAT Online > Test PATSTAT Online for free

PATSTAT contains bibliographical and legal status patent data from leading industrialised and developing countries. This is extracted from the EPO's databases and is either provided as bulk data or can be consulted online.

Thank you for your attention

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European Patent Office

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