

# Patent Search

Databases & Accessibility



---

**PG Diploma In Patents**

**NALSAR University of Law, Hyderabad**

**Contact Class; October, 2019.**

*“Data, when organized, becomes information; information, when analyzed, becomes intelligence. Based on this model, intelligence professionals usually execute on a four-phased process, or cycle:*



- 1) they identify the intelligence needs of key decision makers across the firm;*
- 2) they collect information about events in a firm’s external business environment from print, electronic, and oral sources;*
- 3) they analyze and synthesize the information; and*
- 4) they disseminate the resulting intelligence to decision makers.”*

– Jerry Miller

Millennium Intelligence: Understanding and Conducting Competitive Intelligence in the Digital Age

Prior art searching is that required optimism to draw meaningful conclusions concerning  
Business  
Technology  
Legal

# A I M

VALUE

- Maximize
- Branding

RISK

- No violation
- Sustain the business model



## What is Pat-informatics?

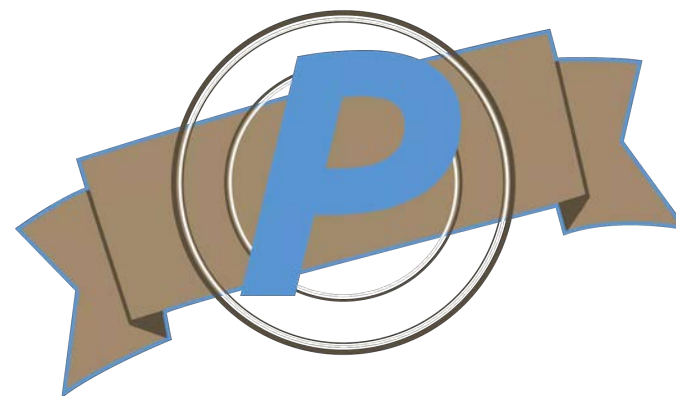
### Prior Art

- Made available to public
- Anywhere in the world
- By written disclosure
- Assisting in determining the claimed invention is new and involves an inventive step
- Prior to filing date

The science of analyzing patent information to discover relationships and trends, which would be difficult to see when working with patent documents on a one-on-one basis.

### Why Pat-informatics is important?

To avoid infringement of any unexpired third party patents.  
To study technology trends.  
To identify technology gaps (if any).  
To identify technology collaborators.  
Evaluate licensing opportunity.



# Technology/ Patents

Define technology space

Identify key players

Identify key knowledge

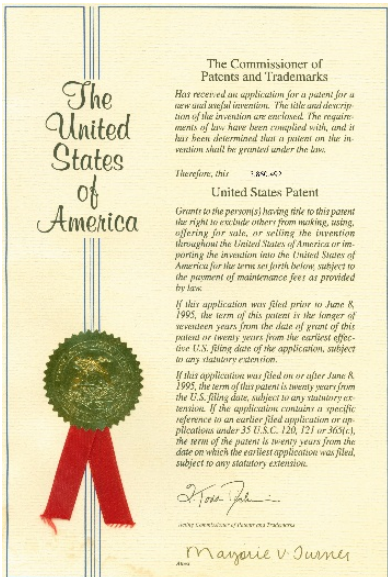
Identify business opportunities

Determine patentability

Invalidate third party patents

Determine portfolio value

Licensing  
Opportunities



# Pat-informatics: Some Answers

What is occurring in a particular technological area:



What are the subjects where research is being done ?

What are the emerging research lines ?

Which are the players in a technical field ?

Which are the leading research teams ?

What is the quality of research?

How financed are the research teams?

is it an ongoing serious research?

What are the technological trends ?

What are the patenting trends ?

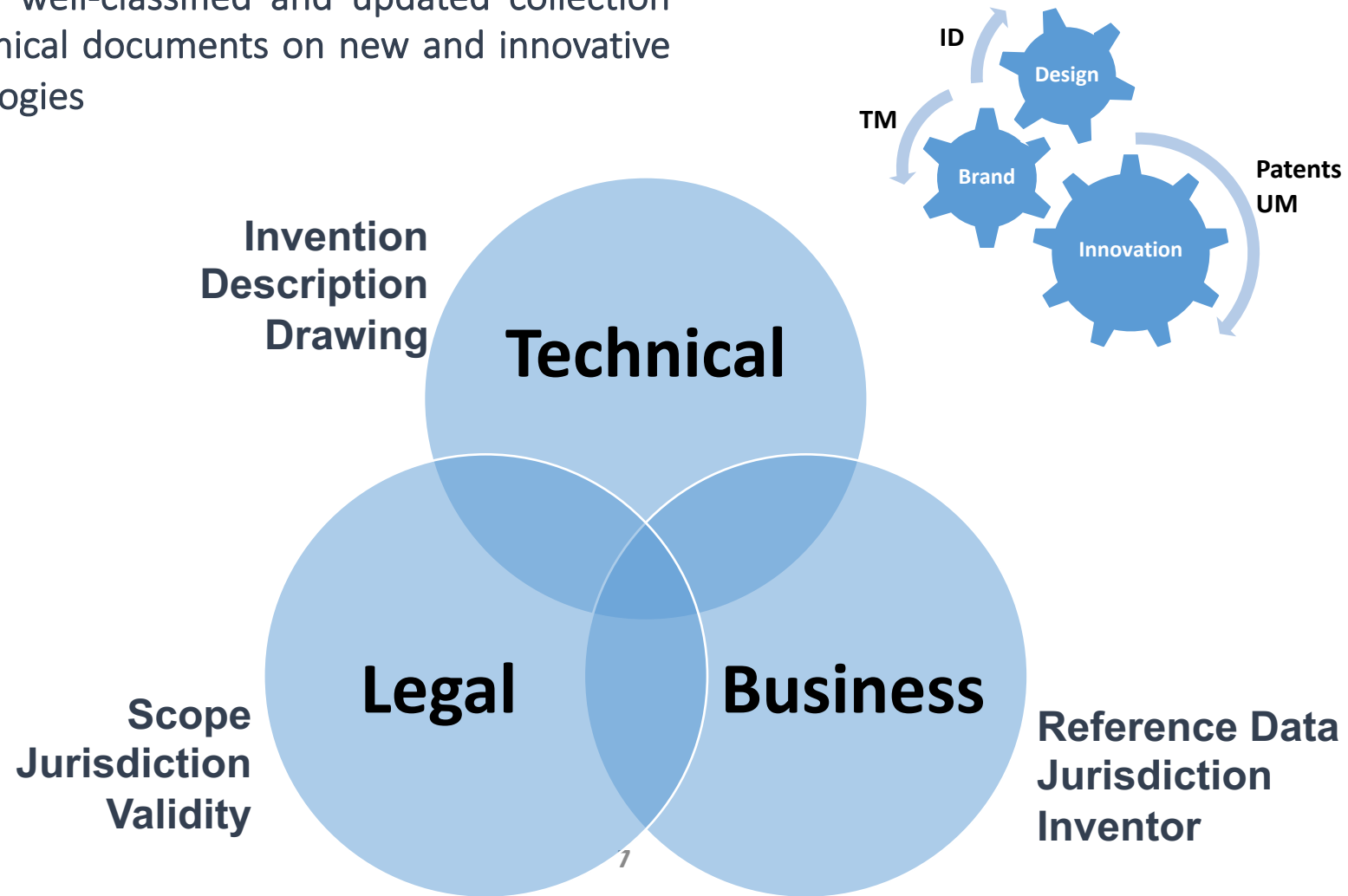
What are the technology portfolios of a company ?

What are the technical strategies of a company ?

Which are the markets in mind?

# Patents

Largest, well-classified and updated collection of technical documents on new and innovative technologies



# Where to Search which Prior Art

## Patentability

- Patent Literature (full text)
- Non Patent Literature (full text)
- Usage

## Validity

- Patent Literature (full text)
- Non Patent Literature (full text)
- Usage

## Freedom to Operate

- Claims of unexpired patents (only)

## Infringement

- Claim of unexpired patents (only)
- Prosecution History



## Litigation History



# Prior Art

- In a broad sense, technology that is relevant to an invention and was publicly available (e.g. described in a publication or offered for sale) at the time an invention was made. In a narrow sense, any such technology which would invalidate a patent or limit its scope. The process of prosecuting a patent or interpreting its claims largely consists of identifying relevant prior art and distinguishing the claimed invention from that prior art.
- PRIOR ART (PATENT) - Novelty and non-obviousness are judged against everything publicly known before the invention, as shown in earlier patents and other published material. This body of public knowledge is called "prior art."

# Infringement Opinion

- Manufacturing or using an invention or improvement which someone else owns a government issued patent without receiving the patent owner's permission by contract, license or waiver. The party that infringes is liable to the patent owner for all of the profits from using the invention, as well as any harm that the inventor can prove, whether the infringement was intentional or not.



# Where to Search?



# Searching for Patents

## How do people usually search for patents?

- Patent number
- Keyword



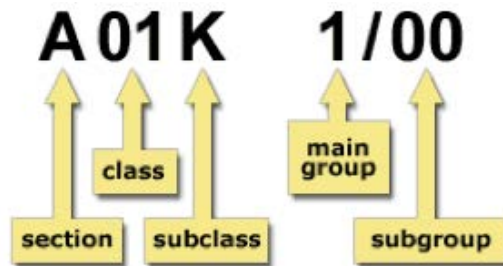
|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| <b>Classification</b> | <b>International (IPC), U.S. Classification, CPC, European Classification, etc.</b> |
| <b>Dates</b>          | <b>Application, Issue, Publication, etc.</b>                                        |
| <b>Names</b>          | <b>Applicant, Inventor, Assignee, Examiner, Attorney/Agent, etc.</b>                |
| <b>Numbers</b>        | <b>Patent, Publication, Application, Priority, etc.</b>                             |

# Patent Classifications

## International Patent Classification (IPC)

- works as a universal classification for patents
- started in 1975 and periodically updated
- we currently use IPC 8th Edition.
- Section, Class & Group.

The International Patent Classification looks like this:



A 47 J 27/09 includes the safety device on your rice cooker

B 63 G 11/00 covers your various aircraft carriers

[http://www.wipo.int/classifications/fulltext/new\\_ipc/index.htm](http://www.wipo.int/classifications/fulltext/new_ipc/index.htm)

## US Patent Classification

US Patents are classified with 400+ main classes and thousands of subclasses.

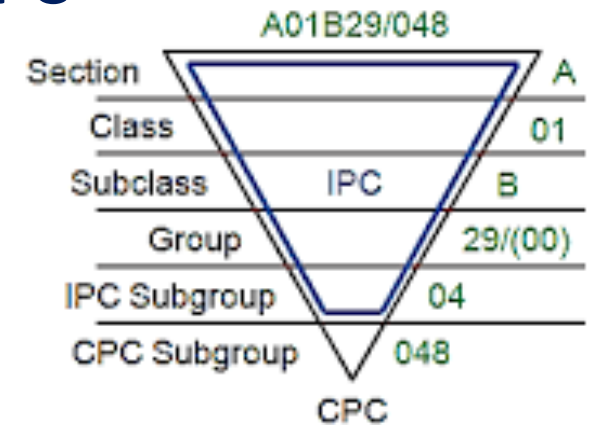
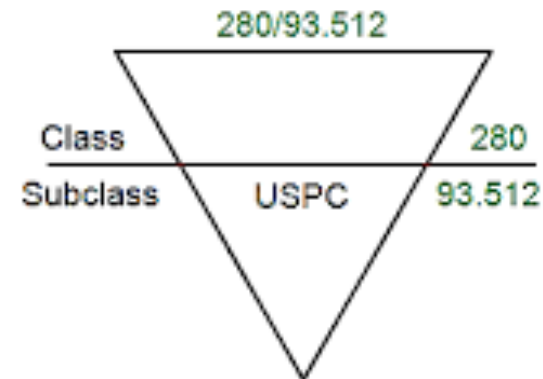
424 / 497  
Class / SubClass

7/118 covers pocket knives

514/470 drugs - nitrogen bonded directly to the hetero ring

<http://www.uspto.gov/web/patents/classification>

## CPC



## Patent Office / Free Databases



STATE INTELLECTUAL PROPERTY OFFICE  
OF THE PEOPLE'S REPUBLIC OF CHINA

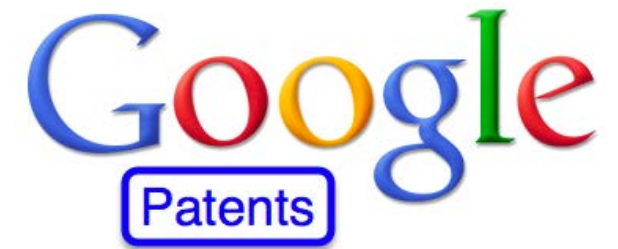


특허청

Korean Intellectual  
Property Office



INTELLECTUAL  
PROPERTY **INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

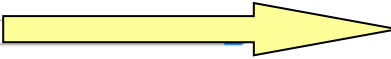


## USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[View Cart](#)

Data current through July 10, 2018..

Query [\[Help\]](#)

Term 1:  in Field 1:    
AND   
Term 2:  in Field 2:

Select years [\[Help\]](#)

1976 to present [full-text]

Patents from 1790 through 1975 are searchable only by Issue Date, Patent Number, and Current Classification.

When searching for specific numbers in the Patent Number field, utility patent numbers are entered as eight numbers in length, excluding commas (which are optional, as are leading zeroes).

## US PATENT & TRADEMARK OFFICE PATENT APPLICATION FULL TEXT AND IMAGE DATABASE

[Help](#)[Home](#)[Boolean](#)[Manual](#)[Number](#)[View Shopping Cart](#)

Data current through July 12, 2018.

Query [\[Help\]](#)

Term 1:  in Field 1:    
AND   
Term 2:  in Field 2:

Select years [\[Help\]](#) 2001-present

All Fields  
Title  
Abstract  
Issue Date  
Patent Number  
Application Date  
Application Serial Number  
Application Type  
Assignee Name  
Assignee City  
Assignee State  
Assignee Country  
International Classification  
Current US Classification  
Primary Examiner  
Assistant Examiner  
Inventor Name  
Inventor City  
Inventor State  
Inventor Country  
Inventor Country  
Government Interest  
Attorney or Agent  
PCT Information  
Foreign Priority  
Reissue Data  
Related US App. Data  
Referenced By  
Foreign References  
Other References  
Claim(s)



Espacenet

## Advanced search

Select the collection you want to search in Tooltip

Worldwide - collecti

Enter your search terms - CTRL-ENTER expands the field you are in

Enter keywords

plastic and bicycle Title: Tooltip

hair Title or abstract: Tooltip

Enter numbers with or without country-code

WO2008014520 Publication number: Tooltip

DE201310112935 Application number: Tooltip

WO1995US15925 Priority number: Tooltip

Enter one or more dates or date ranges

2014-12-31 or 20141231 Publication date: Tooltip

Enter name of one or more persons/organisations

Institut Pasteur Applicant(s): Tooltip

Smith Inventor(s): Tooltip

Enter one or more classification symbols

F03G7/10 CPC Tooltip

H03M1/12 IPC Tooltip



## PATENTSCOPE

Search International and National Patent Collections

WORLD INTELLECTUAL PROPERTY ORGANIZATION

Search Browse Translate Options News Login Help

Home > IP Services > PATENTSCOPE

### Field Combination

|     |                         |           |                                                                                         |
|-----|-------------------------|-----------|-----------------------------------------------------------------------------------------|
|     | Front Page              | =         |                                                                                         |
| AND | WIPO Publication Number | =         |                                                                                         |
| AND | Application Number      | =         |                                                                                         |
| AND | Publication Date        | =         |                                                                                         |
| AND | English Title           | =         |                                                                                         |
| AND | English Abstract        | =         |                                                                                         |
| AND | Applicant Name          | =         |                                                                                         |
| AND | International Class     | =         |                                                                                         |
| AND | Inventor Name           | =         |                                                                                         |
| AND | Office Code             | =         |                                                                                         |
| AND | English Description     | =         |                                                                                         |
| AND | English Claims          | =         |                                                                                         |
| AND | Licensing availability  | =         |                                                                                         |
| AND | Inventor Name           | Is Empty: | <input checked="" type="radio"/> N/A <input type="radio"/> Yes <input type="radio"/> No |

Language English

Stem: ☒

Office:

All

Specify

(+) Add another search field | (-) Reset search fields Tooltip Help

Search Reset



(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

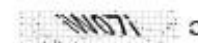
### Patent Search

Publication Type:

Published

Granted

|                                           |                                                          |     |
|-------------------------------------------|----------------------------------------------------------|-----|
| Application Date (National)               | From: mm/dd/yyyy To: mm/dd/yyyy                          | AND |
| Title                                     | e.g. ONBOARD VEHICLE DIGITAL IDENTIFICATION TRANSMISSION | AND |
| Abstract                                  | e.g. COMPUTER IMPLEMENTED                                | AND |
| Complete Specification                    | e.g. VEHICLE DIGITAL IDENTIFICATION                      | AND |
| Application Number                        | e.g. 22054CHNP0368                                       | AND |
| Patent Number                             | e.g. 220542                                              | AND |
| Applicant Name                            | e.g. SRM Institute of Science and Technology             | AND |
| Applicant Country                         | e.g. INDIA                                               | AND |
| Applicant Address                         | e.g. Delhi                                               | AND |
| Inventor Name                             | e.g. Singh                                               | AND |
| Inventor Country                          | e.g. INDIA                                               | AND |
| Inventor Address                          | e.g. Delhi                                               | AND |
| Filing office                             | e.g. Delhi                                               | AND |
| International Patent Classification (IPC) | e.g. F11B                                                | AND |
| PGT Application Number                    | e.g. PCT/IN/2016/000007                                  | AND |
| PGT Publication Number                    | e.g. WO/2016/137091                                      | AND |



Enter Captcha

Search



Terms and conditions (http://ipindia.gov.in/terms-conditions.htm) Privacy Policy (http://ipindia.gov.in/privacy-policy.htm) Copyright (http://ipindia.gov.in/copyright.htm) Hyperlinking Policy (http://ipindia.gov.in/hyperlinking-policy.htm) Accessibility (http://ipindia.gov.in/accessibility.htm) Archive (http://ipindia.gov.in/archive.htm) Contact Us (http://ipindia.gov.in/contact-us.htm) Help (http://ipindia.gov.in/help.htm)



(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

### Patent Search

Patent Number:

Patent Number e.g. 220542

47Elm

Enter Code \*

Show E-Register



राष्ट्रीय मतदाता सेवा पोर्टल  
NATIONAL VOTERS SERVICES PORTAL

Terms and conditions (http://ipindia.gov.in/terms-conditions.htm) Privacy Policy (http://ipindia.gov.in/privacy-policy.htm) Copyright (http://ipindia.gov.in/copyright.htm) Hyperlinking Policy (http://ipindia.gov.in/hyperlinking-policy.htm) Accessibility (http://ipindia.gov.in/accessibility.htm) Archive (http://ipindia.gov.in/archive.htm) Contact Us (http://ipindia.gov.in/contact-us.htm) Help (http://ipindia.gov.in/help.htm)

Patent Portal: Looked up and updated by Intellectual Property India. All Rights Reserved

## Commercial Databases

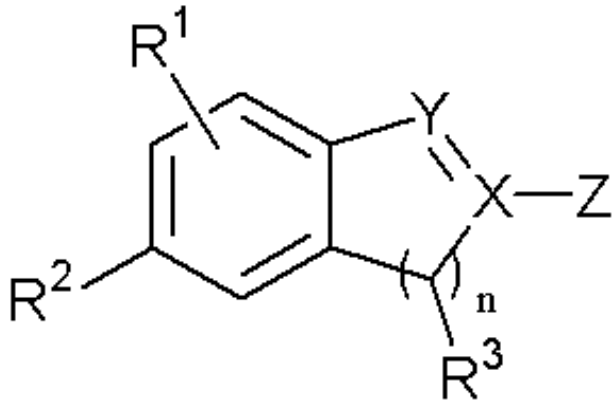


**Clarivate  
Analytics**

Formerly the IP & Science  
business of Thomson Reuters



# Chemical Structures & Sequences



## Chemical Search Databases

- STN
  - CA/CAPLUS
  - CASREACT
  - CAS REGISTRYSM
  - MARPAT
- Derwent World Patents Index® (DWPISM)
- Questel, Merged Markush Service

ATG TGT GGA ATC GTA GGA TTT ATT GGA GAG CAA GAT GCA AAG GAA ATT TTA TTA AAA GGT TTA GAA AAG CTA GAA  
 Met Cys Gly Ile Val Gly Phe Ile Gly Glu Gln Asp Ala Lys Glu Ile Leu Leu Lys Gly Leu Glu Lys Leu Glu  
 TAT CGT GGA TAT GAT TCA GCA GGT ATT GCA GTA CAA GCA GAG AAC GGT GTT GTT GTA TAC AAA GAA AAA GGC CGT  
 Tyr Arg Gly Tyr Asp Ser Ala Gly Ile Ala Val Gln Ala Glu Asn Gly Val Val Val Tyr Lys Glu Lys Gly Arg  
 ATC GCA AAA CTT CGC GAA ATC GTA GAT GAG AAC GTA GCA GCA AGC GTA GGT ATC GGA CAC ACA CGC TGG GCT ACA  
 Ile Ala Lys Leu Arg Glu Ile Val Asp Glu Asn Val Ala Ala Ser Val Gly Ile Gly His Thr Arg Trp Ala Thr  
 CAC GGT CTT CCA AGT AAA GTA AAC GCG CAT CCG CAT CAA AGT ACA TCA AAA CGC TTT ACA CTA GTT CAT AAC GGT  
 His Gly Val Pro Ser Lys Val Asn Ala His Pro His Gln Ser Thr Ser Lys Arg Phe Thr Leu Val His Asn Gly

## Sequence Search Databases

- GenomeQuest
  - The first intranet sequence search engine with percent identity and biological searching.
  - Works similar to premier web search engines, rapidly bubbling relevant records to the top.
  - The software automates the reporting of the most important and relevant matches, minimizing tedious research, while providing advanced search algorithms so no relevant sequences are ever missed.
- STN
  - DGENE(Thomson Reuters GENESEQTM):
  - USGENE® (The USPTO Genetic Sequence Database)
  - PCTGEN (WIPO/PCT Patent Application Biosequences, the complete collection of e-published sequences from WIPO)
  - CAS REGISTRYSM (Chemical Abstracts Service REGISTRY, worldwide value-added patent and non-patent sequence data)

# Commercial Databases - Advantages

- “Value-added” data
  - Corrected bibliographic data
  - Enhanced title and abstract
  - Improved classification/indexing
- Sophisticated search, charting and analysis tools
  - Chemical formula / sequence search tools
  - Patent topographical maps
  - Citation analysis
  - Semantic search
- Provide integrated access to multiple sources of patent and non-patent literature (NPL)
- Customer Support



## **Derwent World Patents Index® (DWPI)**

- Bibliography for 43 patent issuing authorities
- Detailed information from 10 authorities
- Enhanced abstracts and titles
- Derwent classification and subject indexing
- Classification codes include reformed IPC, CPC, ICO, NCL, and F-terms
- Patent Assignee Codes (PACO)
- Dates back to 1963

## **STN**

- Cross-content search of patent and non-patent data
- Additional classification and abstracts (DWPI)
- Additional chemistry metadata (MARPAT, CAPlus)
- Chemical structure import and search
- Search index viewer
- Customized search term highlighting in results
- Patent family grouping

# Patent Information Searching - Challenges

## Challenges

- Amount of Information
  - > 90 million patents published
- Languages
  - Different languages
  - Keywords/synonyms
  - Errors
- Geography
  - Coverage
- Time periods
  - Coverage
- Time and Budget Spent

## Coverage : Differences

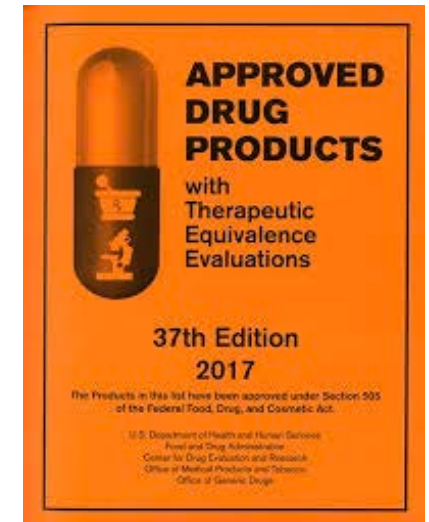
- Patent collections
  - Which countries or regions?
- Document types
  - Patent applications? Granted patents? More?
- Document elements
  - Bibliographic data? Descriptions? Claims
- Time period
- Languages
  - Multiple language versions? Translations?
- Non-Patent Literature
  - Simultaneous access to scientific and technical journals



# Orange Book

## Approved Drug Products with Therapeutic Equivalence Evaluations

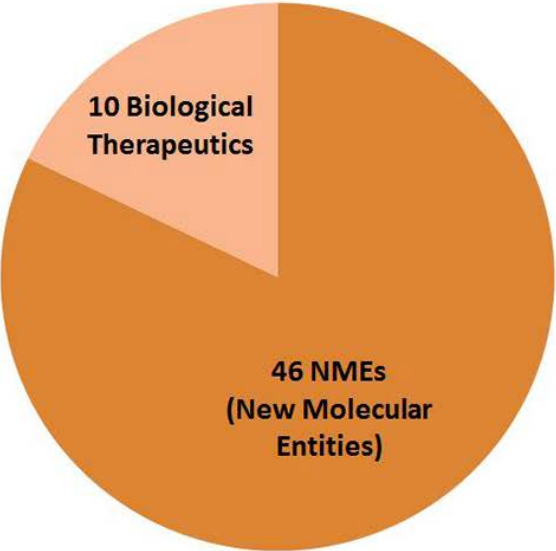
- This publication identifies drug products approved on the basis of safety and effectiveness by the Food and Drug Administration (FDA) under the Federal Food, Drug, and Cosmetic Act (the Act) and related patent and exclusivity information.
  - Search approved drug products by
    - active ingredient,
    - proprietary name,
    - applicant,
    - application number,
    - dosage form,
    - route of administration or
    - patent number.
- ✓ [Orange Book Annual Edition \(PDF - 8.6MB\)](#)
  - ✓ [Orange Book Current Cumulative Supplement 2018 \(PDF - 728KB\)](#)
  - ✓ [Download Orange Book Express 2.0](#)



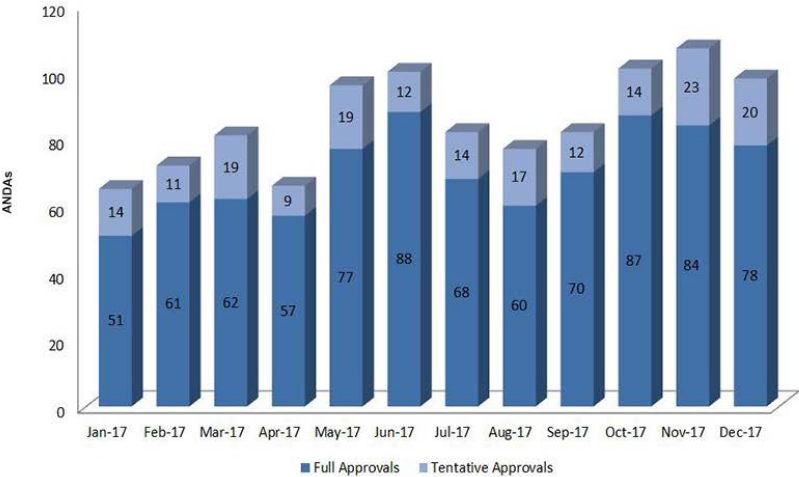
# Drugs@FDA - FDA Approved Drug Products

## 2017 NOVEL DRUGS & BIOLOGICS APPROVALS

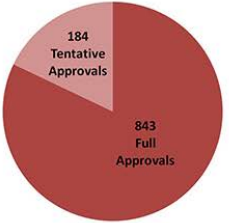
**FDA APPROVED  
TOTAL OF 56  
NOVEL DRUGS  
& BIOLOGICS**



## 2017 Generic Drugs Approved



**1,027 Total  
Generic Approvals**



# Drugs@FDA - FDA Approved Drug Products

- Download Drugs@FDA
- Search by
  - Drug Name,
  - Active Ingredient, or
  - Application Number



<https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

# Patent Search – An Example

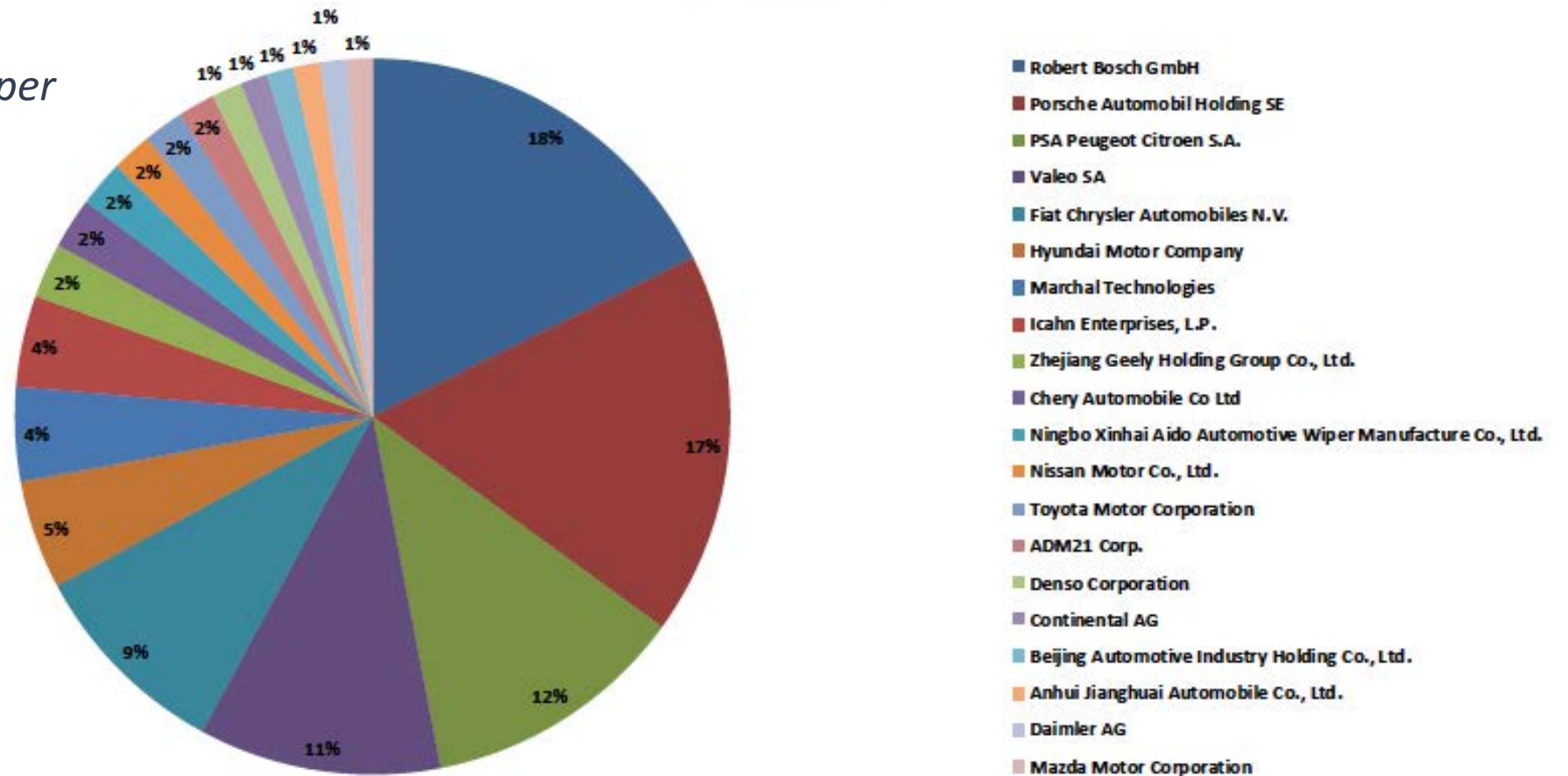
Keyword: *automobile wiper*

## Organizations



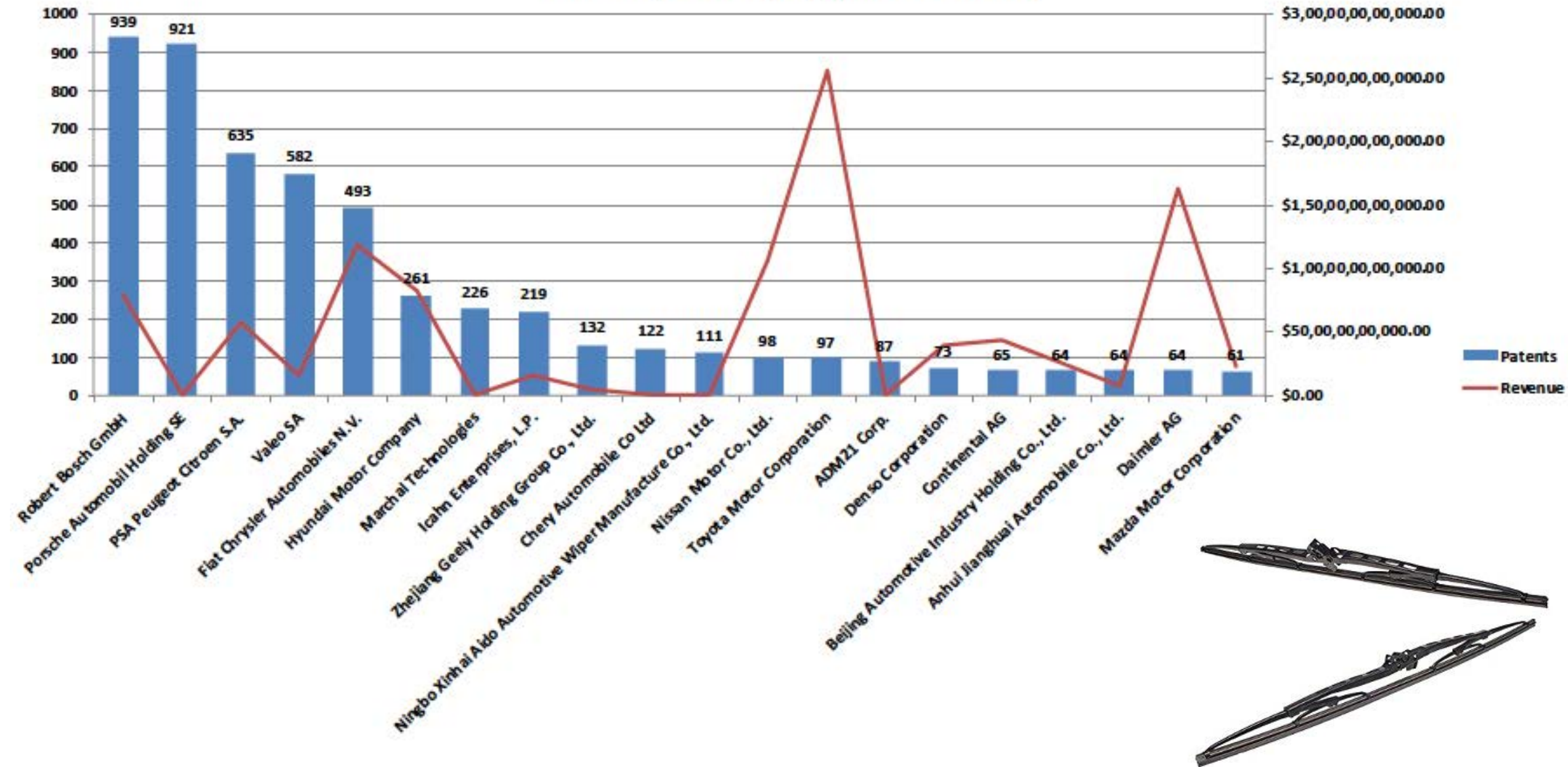
Patents: 12003  
Organizations: 1978

% Patents Per Company (Top 20)



Search carried out on June 19, 2018

# Patents per Company (with Revenue)



## Patents per Source Jurisdiction (Incl Designated States)

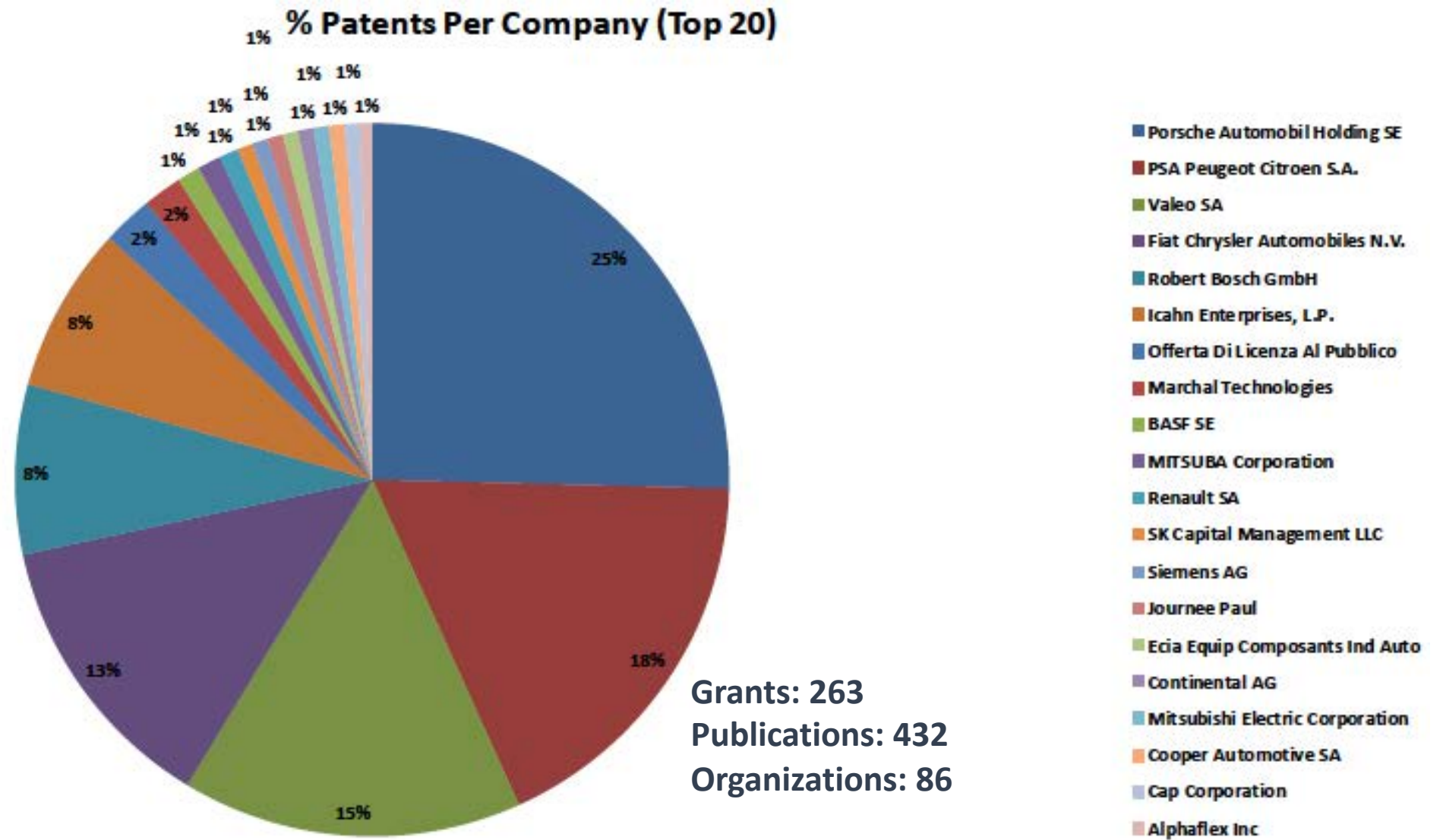


## Source Jurisdiction 38

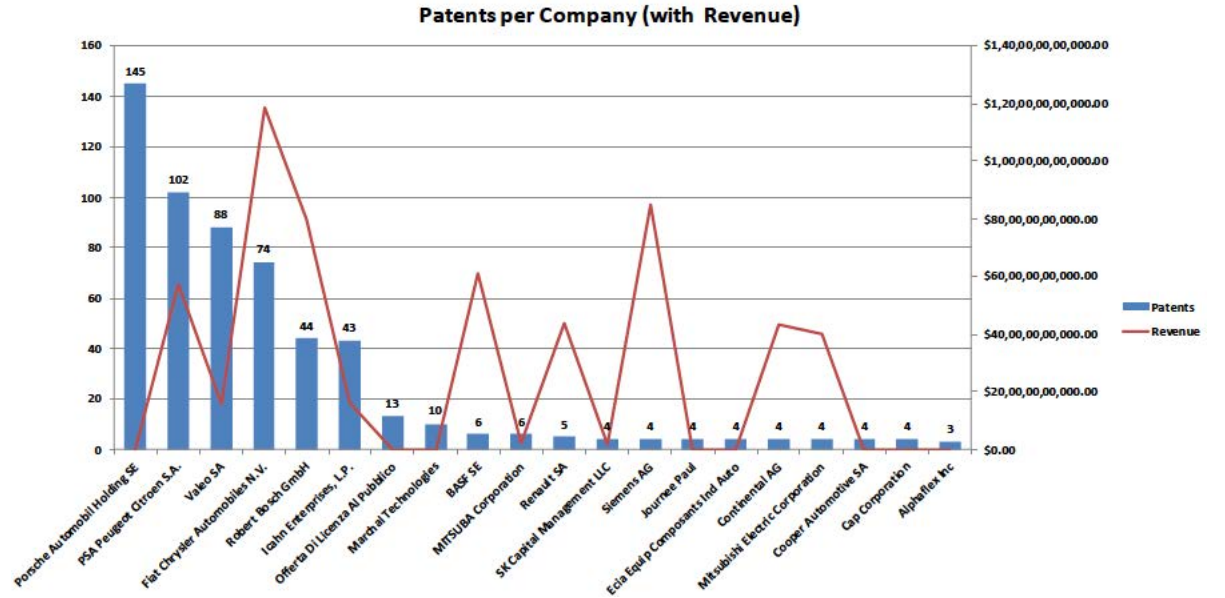
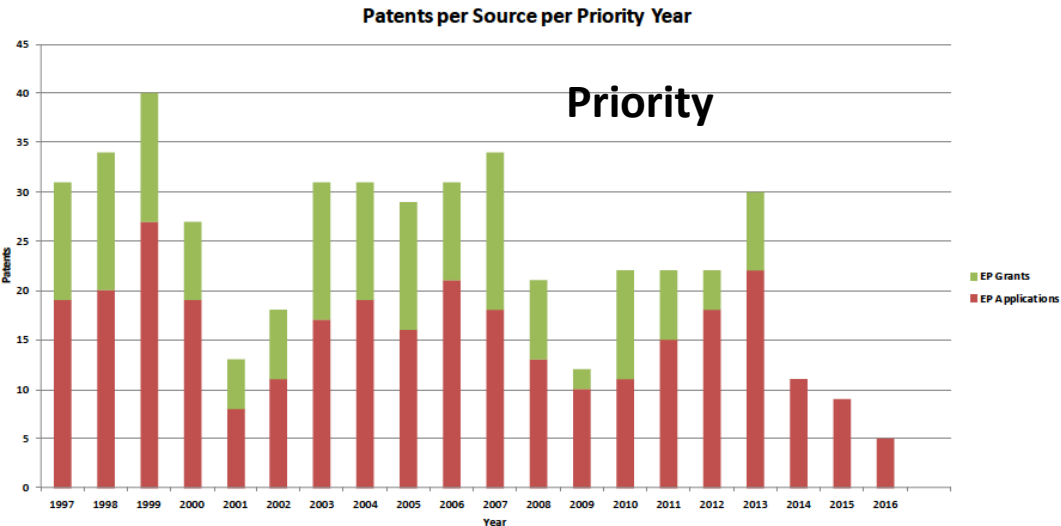
|                     |               |                      |                  |                    |
|---------------------|---------------|----------------------|------------------|--------------------|
| China (4515)        | Japan (1917)  | Germany (1221)       | France (1160)    | South Korea (1014) |
| United States (778) | EPO (695)     | United Kingdom (521) | Spain (519)      | Italy (335)        |
| WIPO (284)          | Belgium (214) | Turkey (196)         | Luxembourg (188) | Sweden (184)       |
| Ireland (182)       | Cyprus (180)  | Liechtenstein (178)  | Monaco (178)     | Switzerland (174)  |

Active Patents  
EPO Grants  
EPO Publications

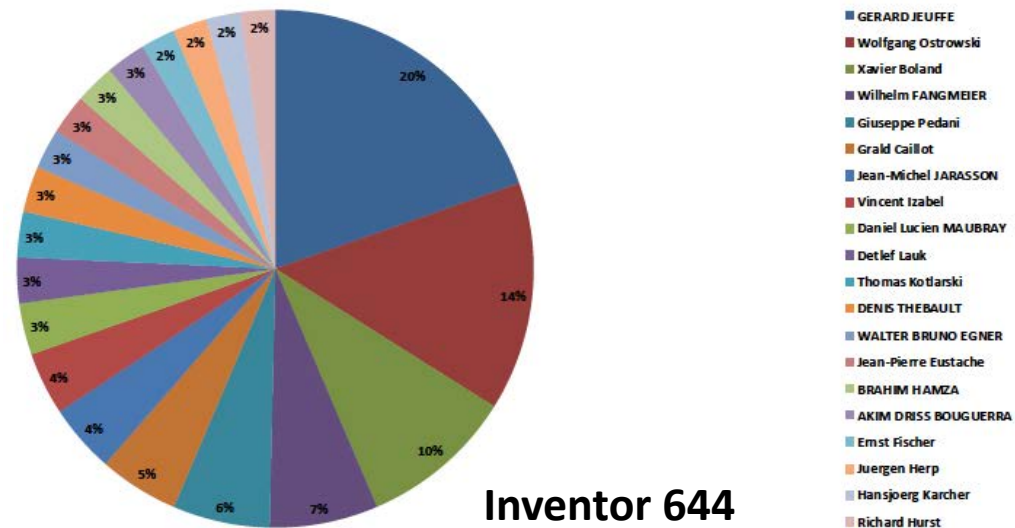
Organizations



# Patents & Publications - EPO

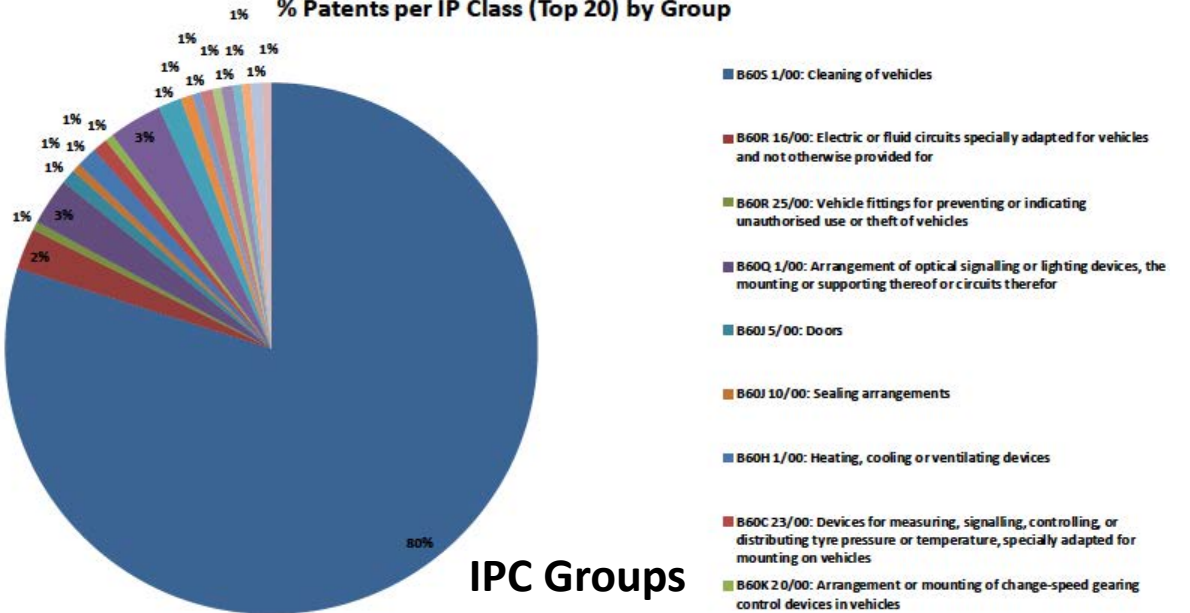


% Patent Share per Inventor (Top 20)



Inventor 644

% Patents per IP Class (Top 20) by Group

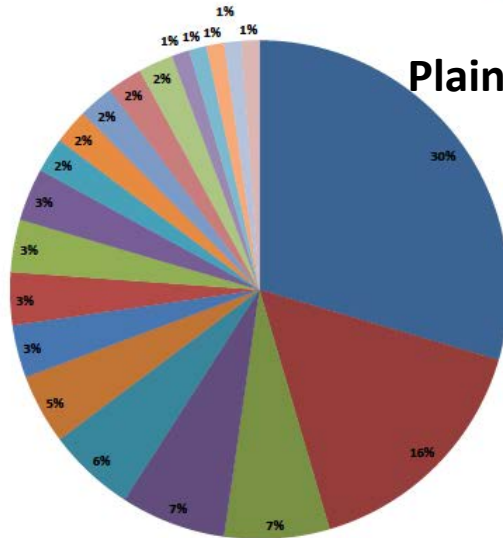


IPC Groups

# Patent Litigations – 107 Cases

% Cases per Plaintiff (Top 20]

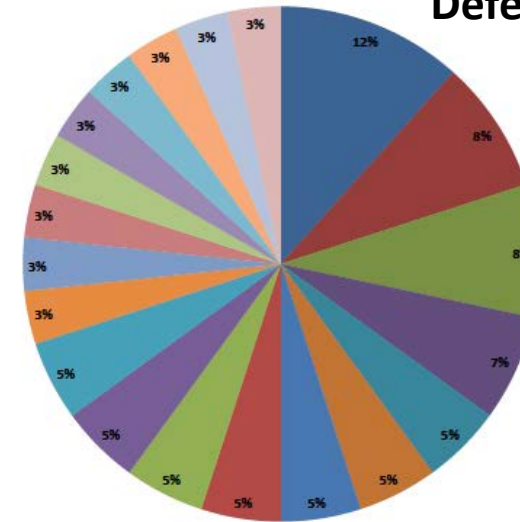
Plaintiff 43



Charlesbank Capital Partners, LLC  
Robert Bosch GmbH  
Magna International Inc.  
Velo city Patent LLC  
Costco Wholesale Corporation  
ZF Friedrichshafen AG  
One Pass Water Blade, LLC  
Kearns Robert W  
E-Watch, Inc.  
Winplus North America, Inc.  
American Calcar Inc  
Omega Patents LLC  
Vehicle Interface Technologies, LLC, Delaware  
Icahn Enterprises, L.P.  
Porsche Automobil Holding SE  
Gauge Works, LLC  
Voxx International Corporation  
Jay Ryu  
Terry Bumi Ryu  
Eaton Leonard Inc

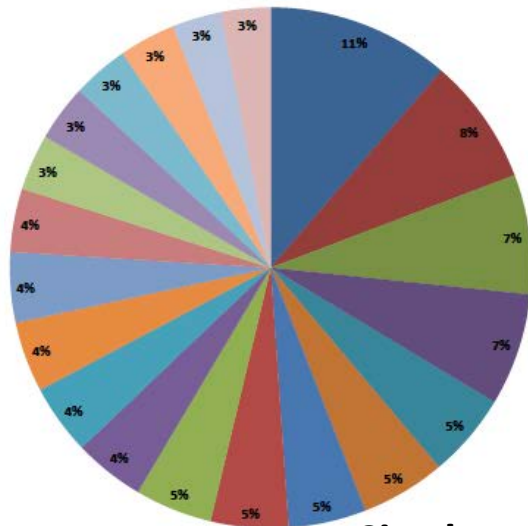
% Cases per Defendant (Top 20]

Defendant 180



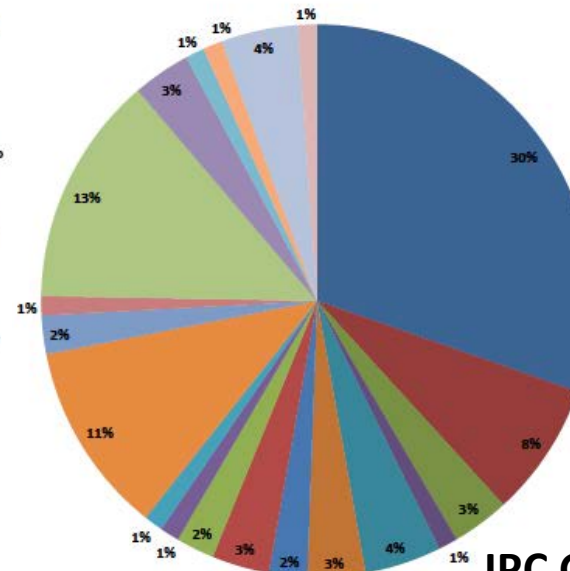
Robert Bosch GmbH  
Fiat Chrysler Automobiles N.V.  
Scan Top Enterprise Co  
Magna International Inc.  
Honda Motor Co., Ltd.  
Bayerische Motoren Werke AG  
Trico Products Corp  
ZF Friedrichshafen AG  
Porsche Automobil Holding SE  
Corea Autoparts Producing Corporation  
Cap America, Inc.  
Sun-Mate Corporation  
Hallelujah Auto Sound, Inc.  
sound master  
Thunderous Sounders Electronic Co Ltd  
Central Glass Co., Ltd.  
Koch Industries  
Guardian Glass Company  
Guardian Industries Distribution Center, Incorporated  
Toyota Motor Corporation

% Cases per Patent (Top 20]



US5534845: Advanced automotive automation and security system  
US4584569: Motion sensitive security system  
US5646591: Advanced method of indicating incoming threat level to an electronically secured vehicle and apparatus therefor  
US5532670: Method of indicating the threat level of an incoming shock to an electronically secured vehicle and apparatus therefor  
US5572185: Car alarm having a soft chirp arming signal  
US6944905: Wiper blade for cleaning screens in particular on motor vehicles  
US5783989: Alarm sensor multiplexing  
US5872519: Advanced embedded code hopping system  
USD419474: Remote control transmitter

% Cases per IP Class (Top 20) by Group



B60S 1/00: Cleaning of vehicles  
B60K 28/00: Safety devices for propulsion-unit control, specially adapted for, or arranged in, vehicles, e.g. preventing fuel supply or ignition in the event of potentially dangerous conditions  
B60K 35/00: Arrangement or adaptations of instruments  
B60K 37/00: Dashboards  
B60R 25/00: Vehicle fittings for preventing or indicating unauthorised use or theft of vehicles  
B60Q 1/00: Arrangement of optical signalling or lighting devices, the mounting or supporting thereof or circuits therefor  
B60J 1/00: Windows  
B64D 45/00: Aircraft indicators or protectors not otherwise provided for  
B62D 65/00: Designing, manufacturing, e.g. assembling, facilitating disassembly, or structurally modifying motor vehicles or trailers, not otherwise provided for  
B65D 75/00: Packages comprising articles or materials partially or wholly enclosed in strips, sheets, blanks, tubes, or webs of flexible sheet material, e.g. in folded wrappers  
B21D 7/00: Bending rods, profiles, or tubes  
G08B 13/00: Burglar, theft, or intruder alarms

Cited Patents 1356

IPC Groups 33

# Patent Search – Another Example

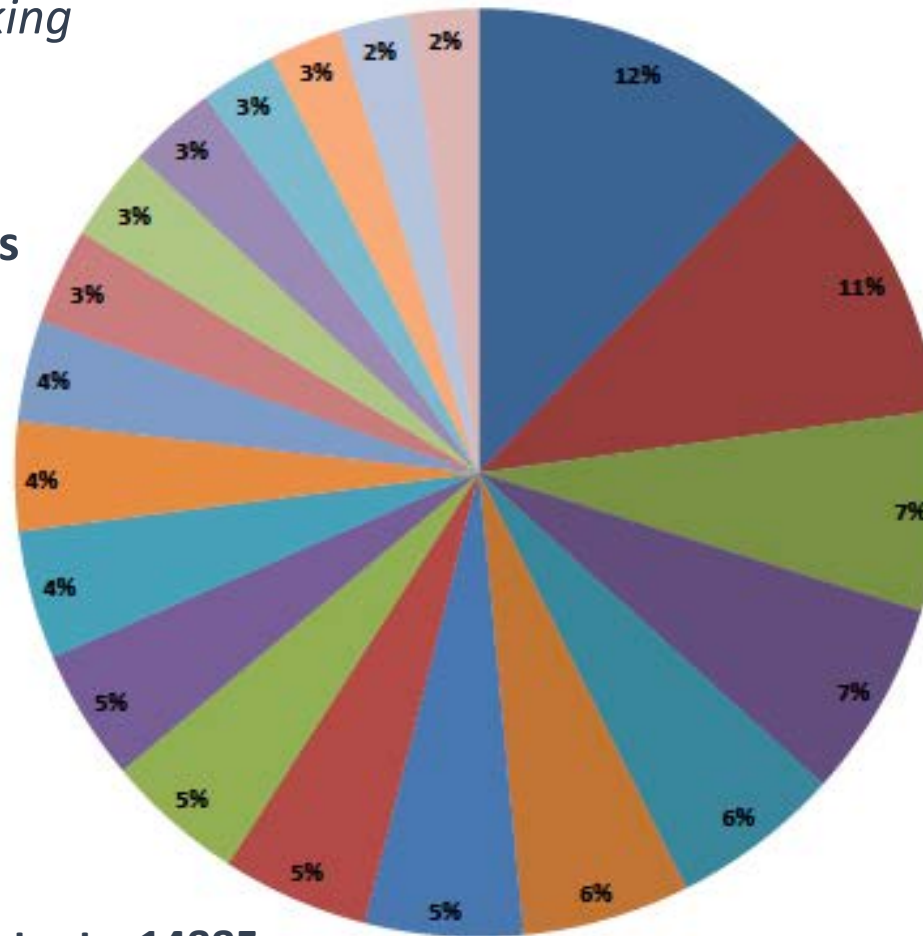
Keyword: *blister packing*

Organizations



Patents: 14885  
Organizations: 3408

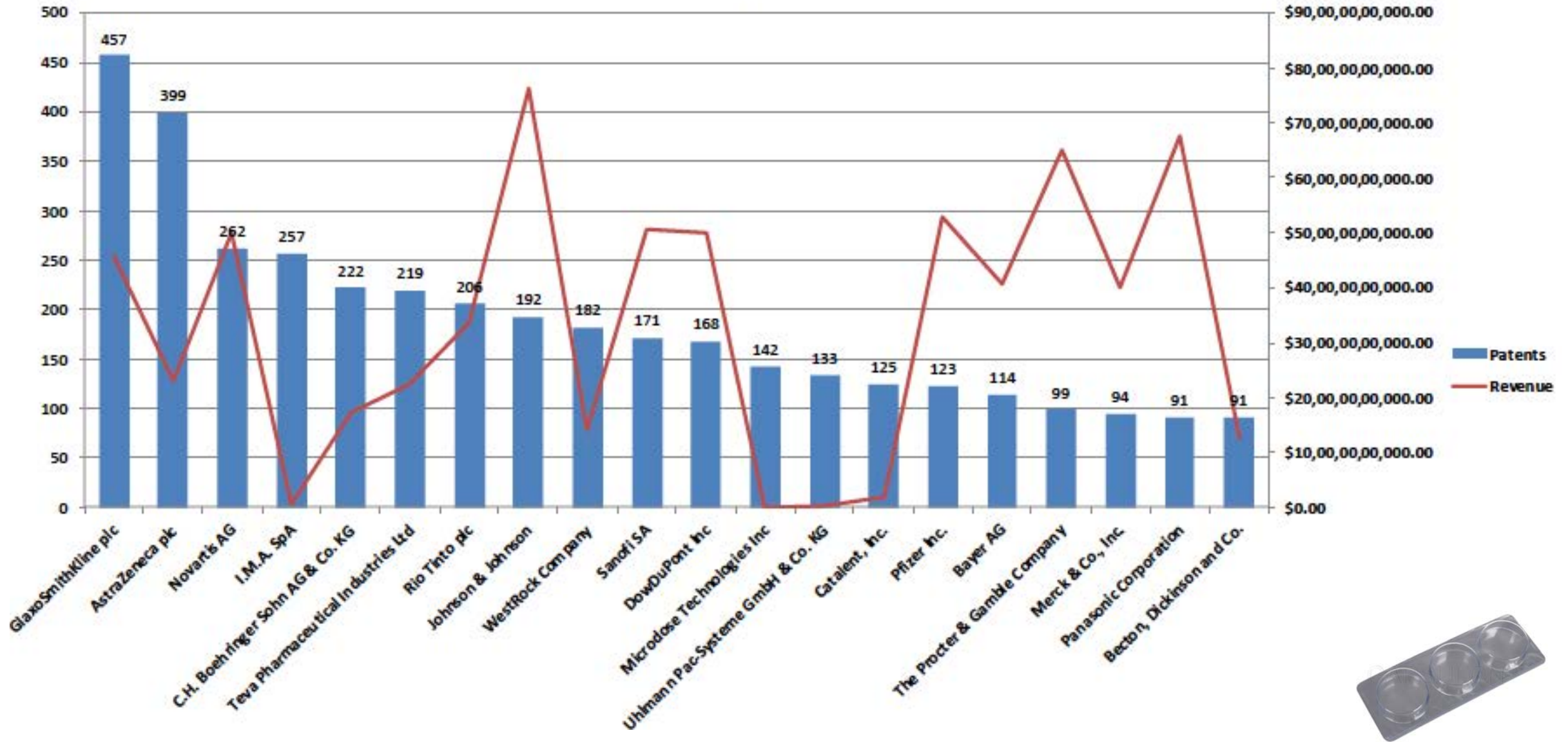
% Patents Per Company (Top 20)



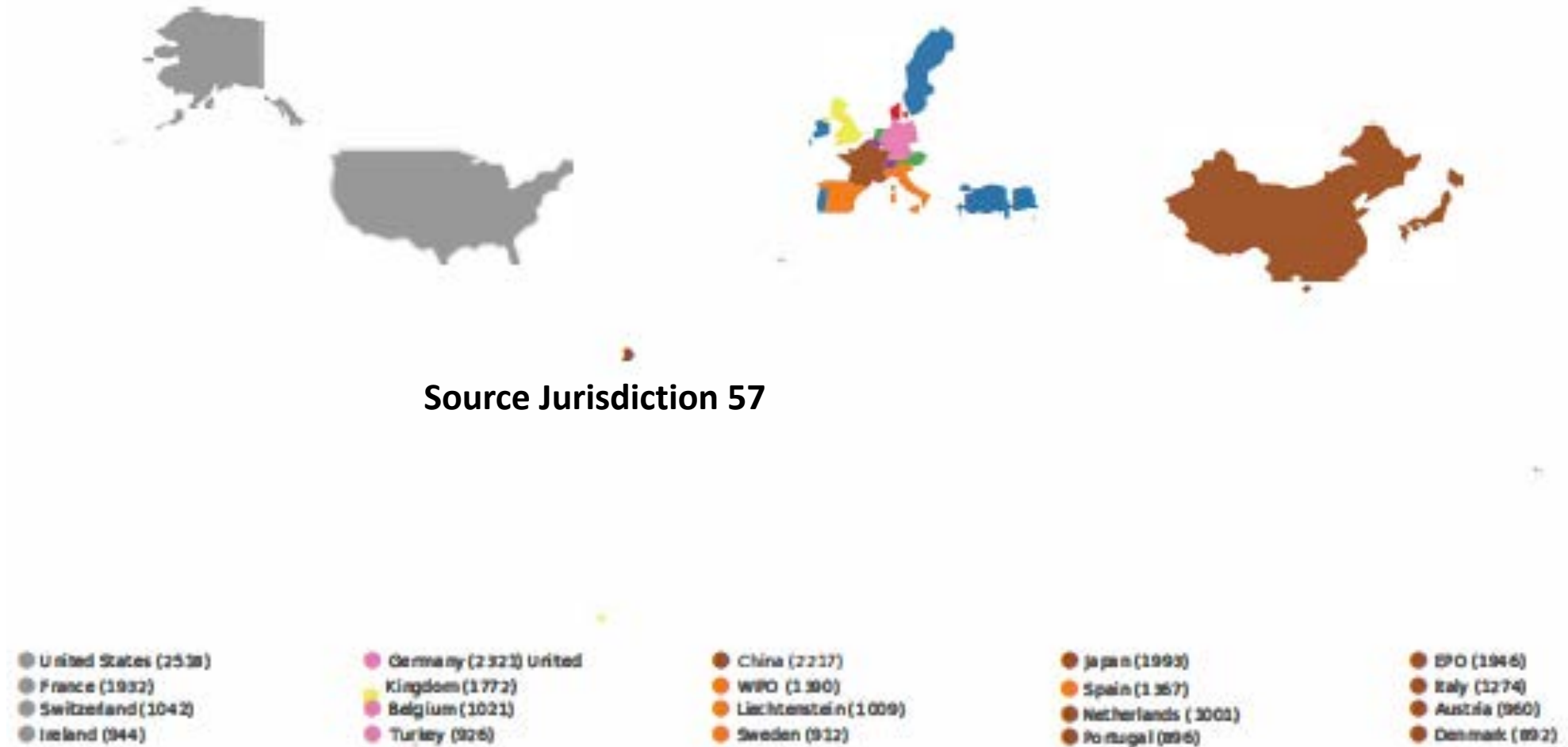
- GlaxoSmithKline plc
- AstraZeneca plc
- Novartis AG
- I.M.A. SpA
- C.H. Boehringer Sohn AG & Co. KG
- Teva Pharmaceutical Industries Ltd
- Rio Tinto plc
- Johnson & Johnson
- WestRock Company
- Sanofi SA
- DowDuPont Inc
- Microdose Technologies Inc
- Uhlmann Pac-Systeme GmbH & Co. KG
- Catalent, Inc.
- Pfizer Inc.
- Bayer AG
- The Procter & Gamble Company
- Merck & Co., Inc.
- Panasonic Corporation
- Becton, Dickinson and Co.

Search carried out on June 19, 2018

# Patents per Company (with Revenue)

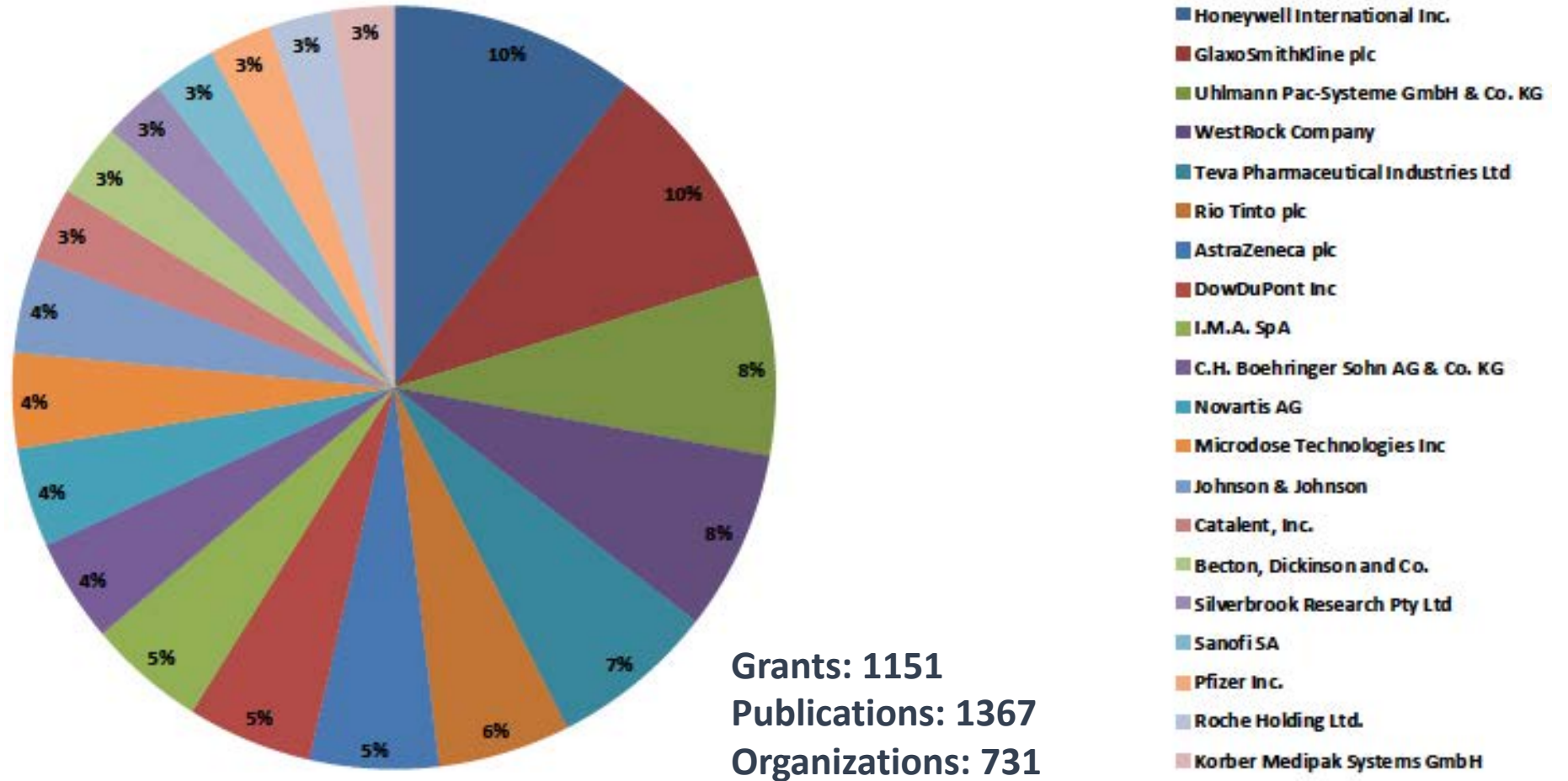


Patents per Source Jurisdiction (incl Designated States)



Source Jurisdiction 57

**% Patents Per Company (Top 20)**

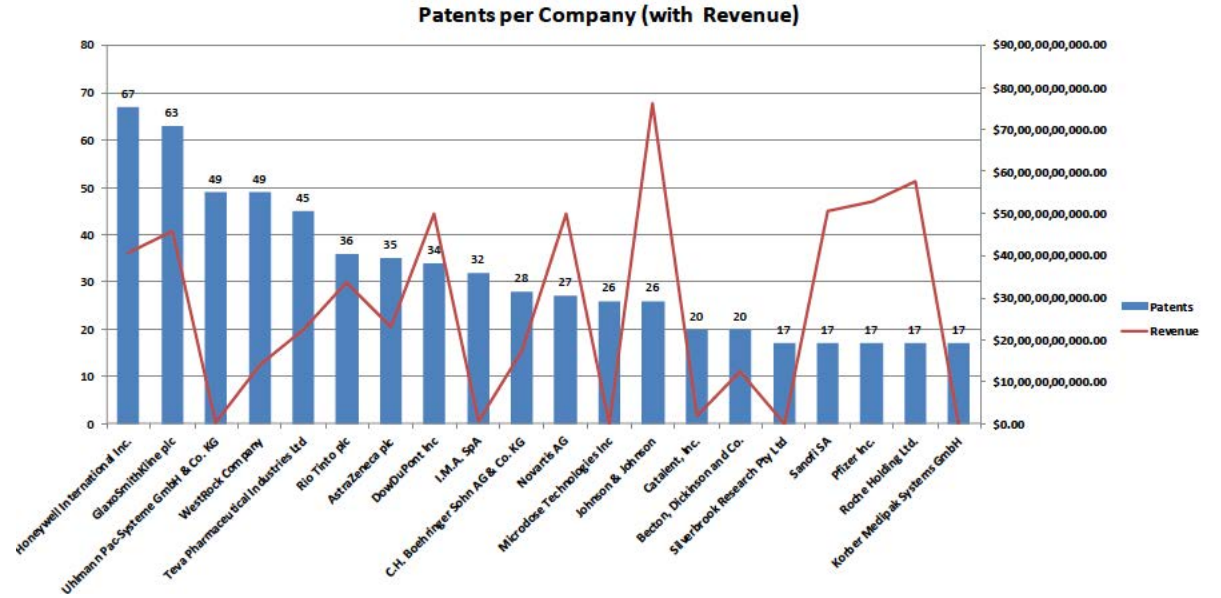
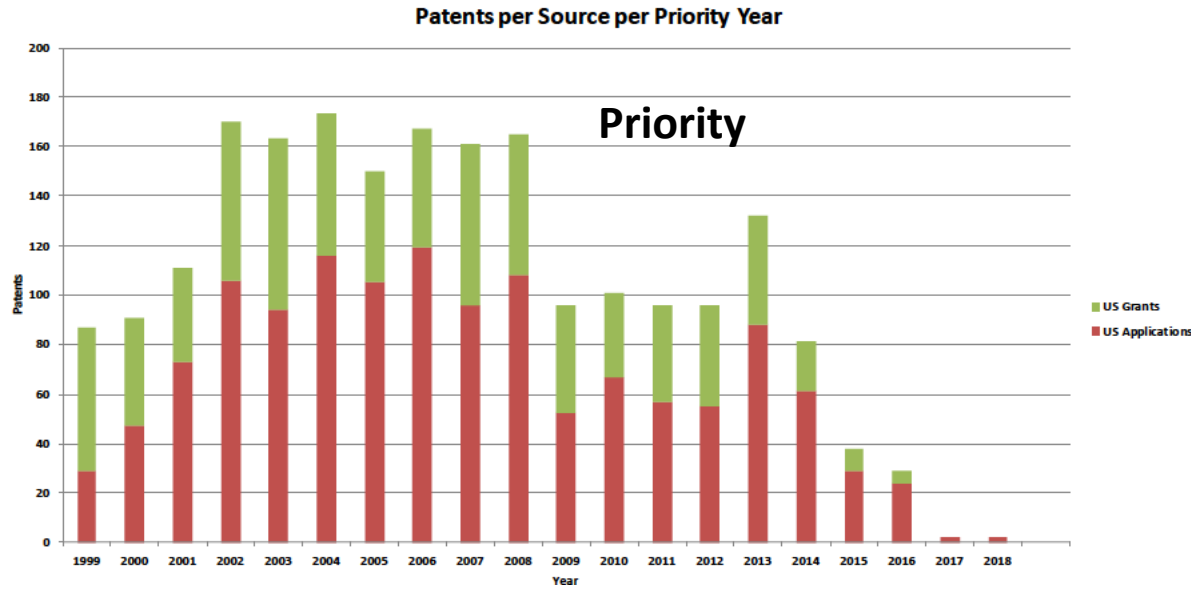


Active Patents  
*US Grants*  
*US Publications*

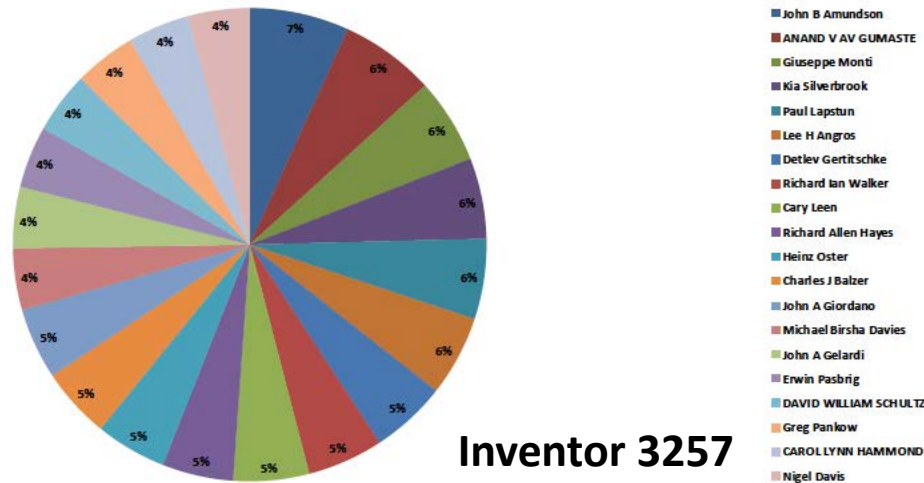
Organizations

Grants: 1151  
Publications: 1367  
Organizations: 731

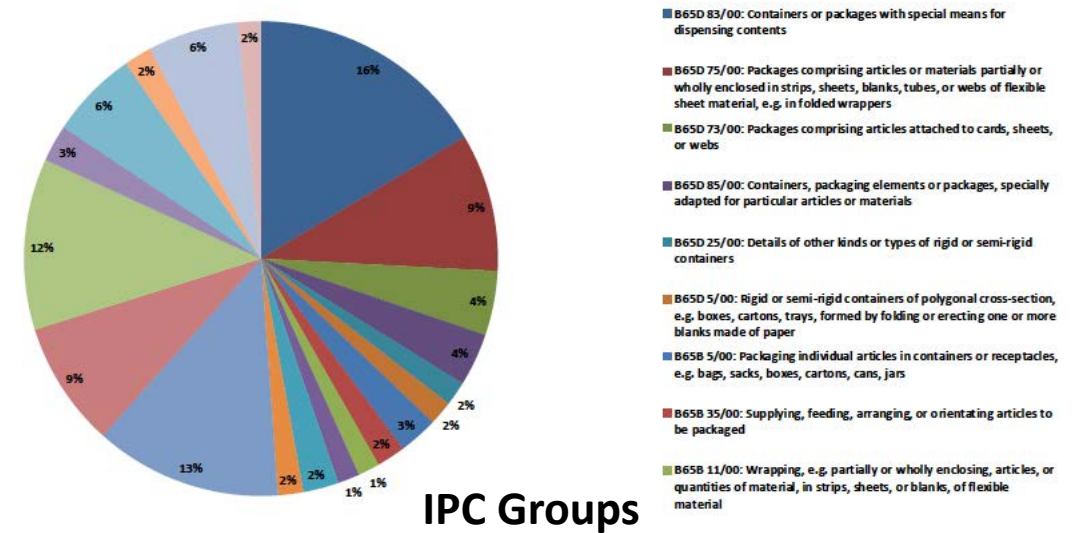
# Patents & Publications - USPTO



% Patent Share per Inventor (Top 20)

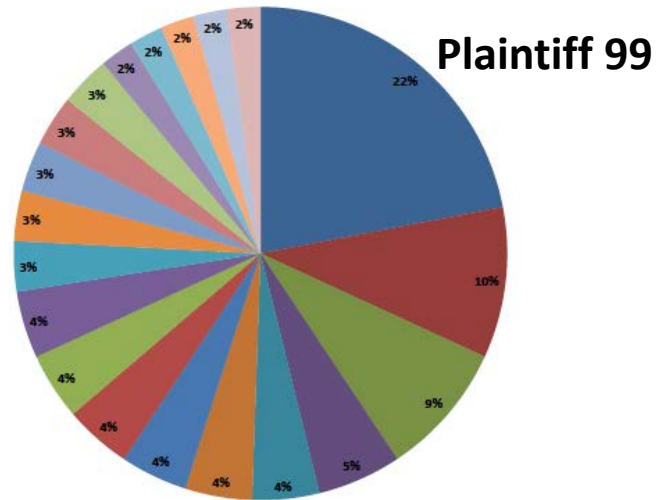


% Patents per IP Class (Top 20) by Group

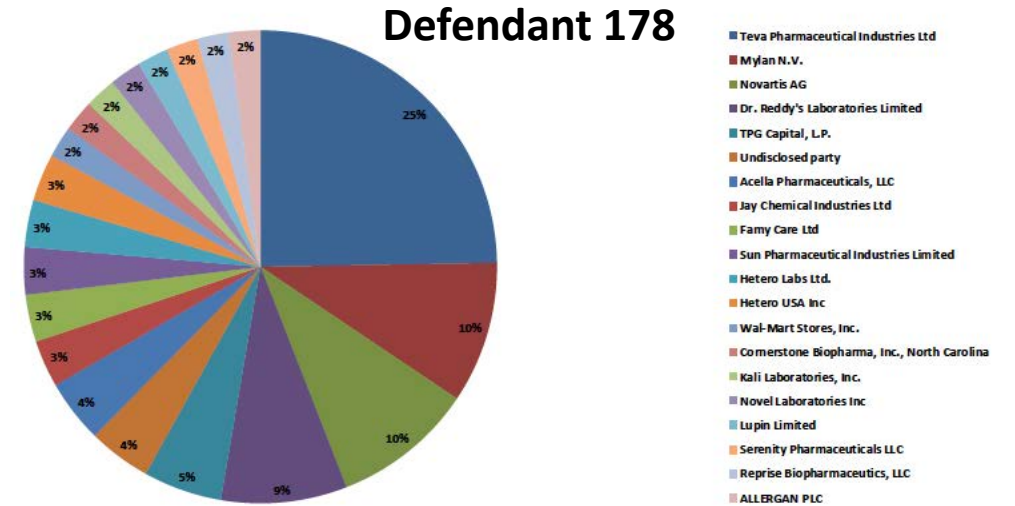


# Patent Litigations – 147 Cases

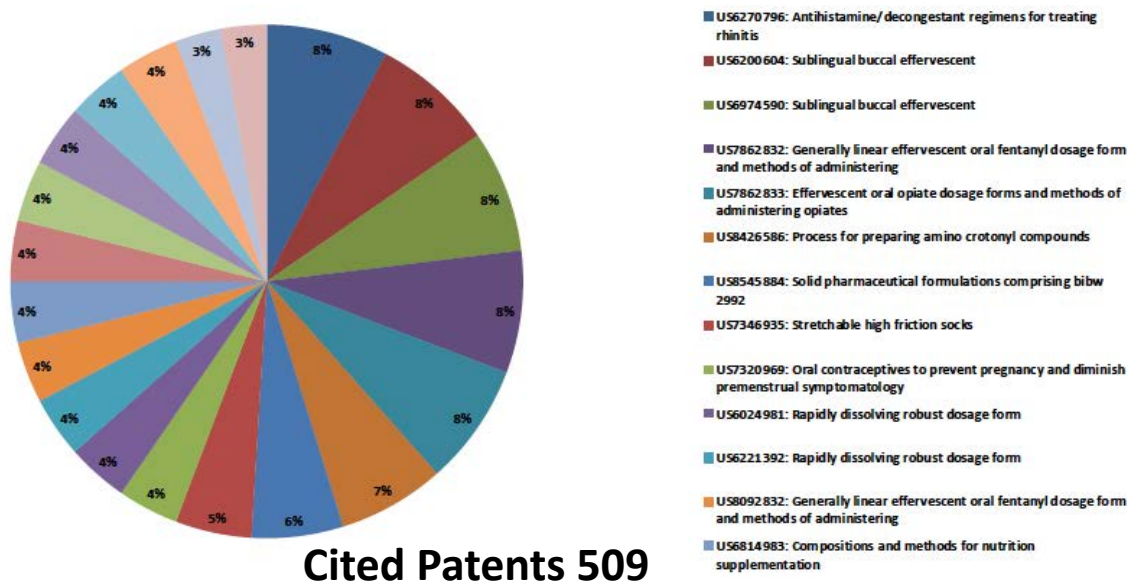
% Cases per Plaintiff (Top 20)



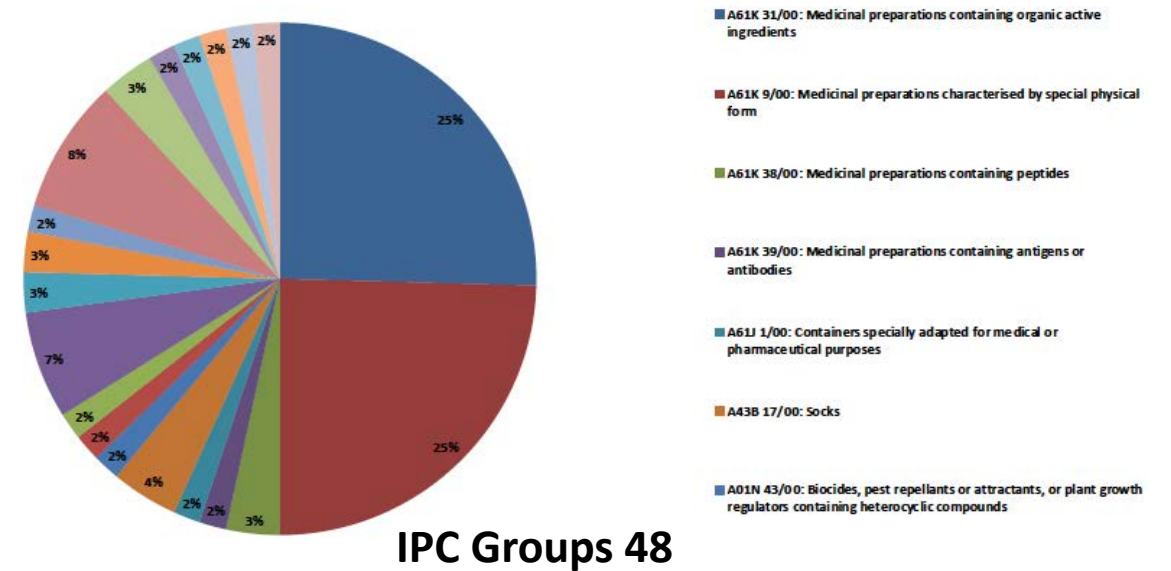
% Cases per Defendant (Top 20)



% Cases per Patent (Top 20)



% Cases per IP Class (Top 20) by Group



# Strategy



- What information is needed?
- The state of the art in a research area
  - New literature - technical and patent
  - New substances - sequences, polymers, compounds, ..
- New technology/patent from key competitors
- Status of known patents
  - New family equivalents
  - New granted patents
  - Post issue office actions
  - Patent expiry dates
  - Litigation history
- Those citing our patents

## Challenges

- What should be monitored ?
- How often should the sources be checked ?
- Will the same literature be retrieved more than once?
- How much time will this activity consume /
- Can the process be automated ?
- How should the current literature be delivered ?

## Current Awareness information is useful only when .....

- Relevant from a technical perspective
- Current
- Delivered in a meaningful way

# Smart Searching

- Use terms and codes from documents already known.
- Extensive citation searching Search for inventors (authors) and companies active in the field
- Display controlled terms, patent classifications and database specific codes of relevant documents
- Add relevant codes and terms to strategies
- Keeping control: do not mix up narrow and broad key terms/codes in “OR” term sets
- Use many different strategies with a low number of key terms/codes to explore the technology step by step
- For multi-featured technology start with strategies focusing on two features at a time and if necessary add additional key terms/codes in a second step if answer sets are too broad
- Start with searches in Titles and Abstracts and depending on precision expand to Claims and further to the Description
- Look in adjacent technical fields (patent classifications) for those features which objectively constitute the characterizing features
- Iterative process: keep the search process interactive by checking retrieved answer sets on the basis of low-cost formats and refine
- Generate a list of synonyms





---

**Dr. Anindya Sircar**

Visiting Faculty

NALSAR University of Law, Hyderabad

<Anindya\_Sircar@yahoo.com>