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N C BANERJEE CENTRE FOR IPR STUDIES
NALSAR UNIVERSITY OF LAW
HYDERABAD*



DEPARTMENT FOR PROMOTION OF
INDUSTRY AND INTERNAL TRADE
MINISTRY OF COMMERCE & INDUSTRY
GOVERNMENT OF INDIA

Patent Search Databases & Accessibility

Advanced Diploma In Patent Law
NALSAR University of Law, Hyderabad
Contact Class; November 2023.

“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?

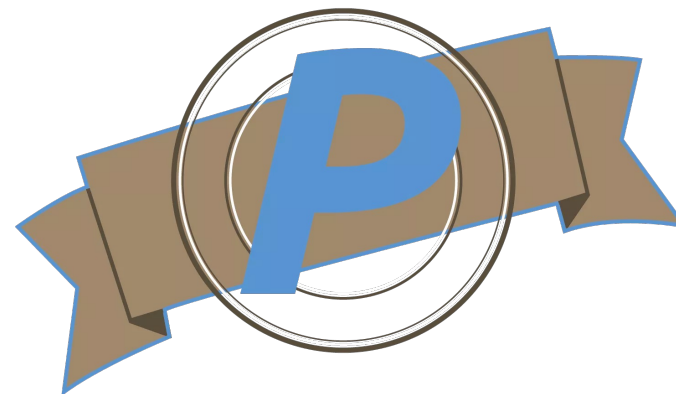
Prior Art

- 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

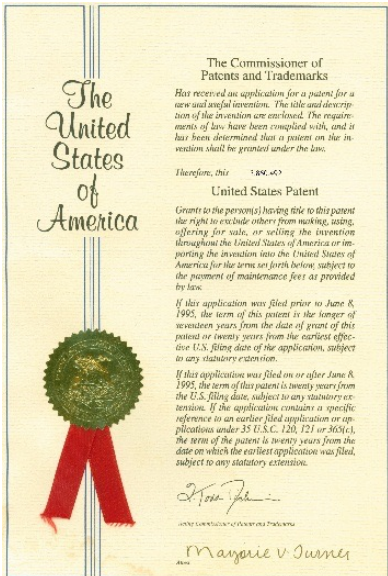
Identify business opportunities

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 ?

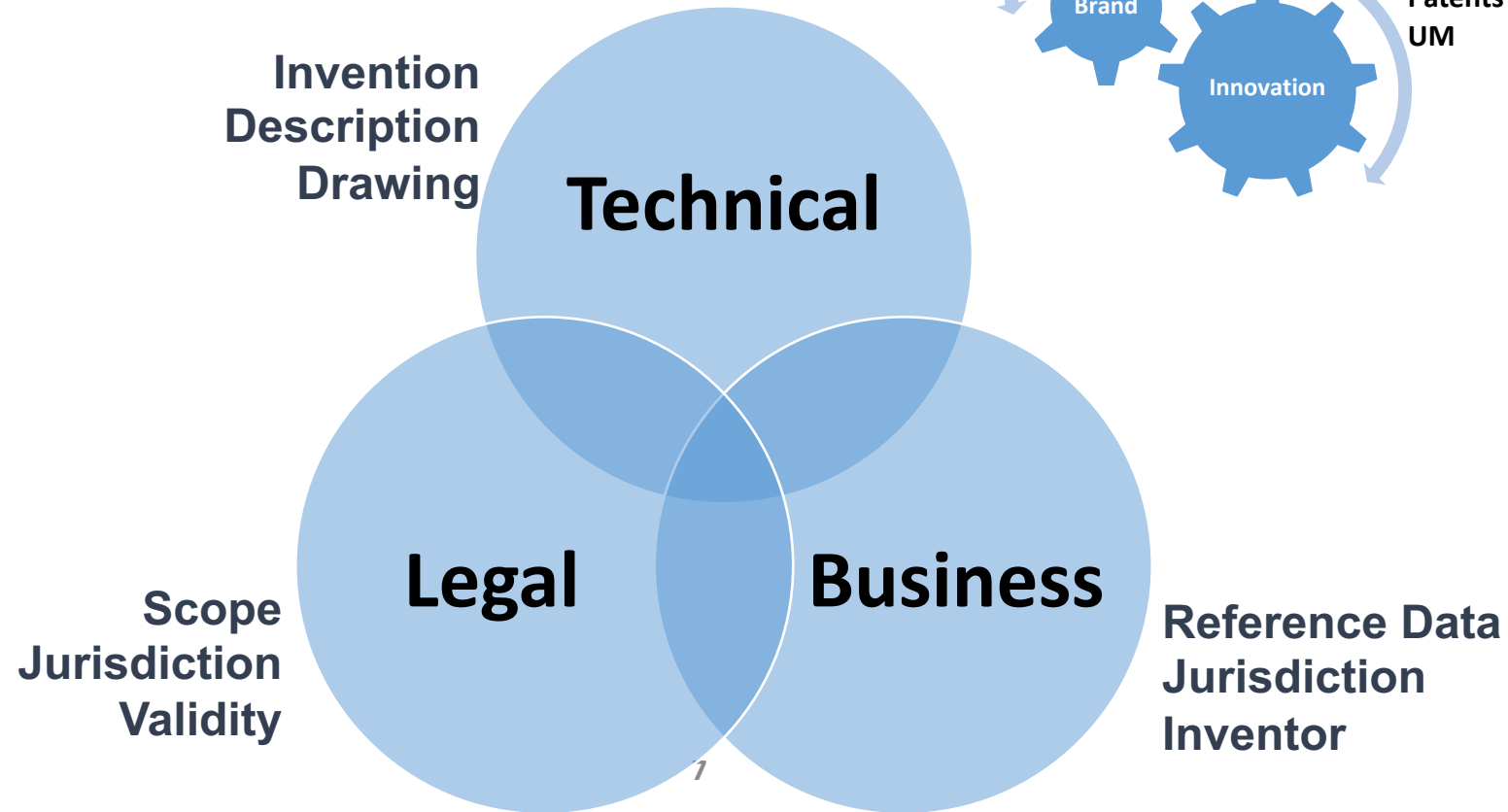
What are the technology portfolios of a company ?

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."

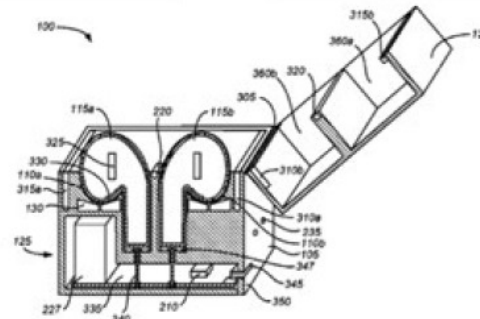
Infringement Opinion

- 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.



Understanding Patent Data

(12) National or regional application filed	(12) United States Patent Chawan et al.	(10) Patent No.: US 9,967,644 B2	(10) Patent number
(54) Title of the invention	(54) MAGNETIC RETENTION OF EARBUD WITHIN CAVITY	(45) Date of Patent: *May 8, 2018	(45) Date of patent
(71) Name of applicant	(71) Applicant: Apple Inc., Cupertino, CA (US)	(52) U.S. CL. CPC H04R 1/1016 (2013.01); A45C 11/00 (2013.01); A45C 13/005 (2013.01); A45C 13/02 (2013.01); (Continued)	(52) National classification
(72) Name of inventor	(72) Inventors: Arun D. Chawan, San Francisco, CA (US); Rico L. Zörkendörfer, San Francisco, CA (US); Kurt Stiehl, Los Gatos, CA (US); Lee M. Panekki, San Francisco, CA (US); Shannon X. Yang, Sunnyvale, CA (US); Daniel Max Strongwater, San Francisco, CA (US); Marcus Albonico, San Francisco, CA (US); Benjamin A. Cousins, Campbell, CA (US); Eric S. Jol, San Jose, CA (US); Daniel C. Wagman, Scotts Valley, CA (US)	(58) Field of Classification Search CPC .. H04R 1/1016; H04R 1/1025; H04R 1/1058; H04R 2420/07; H02J 7/0044; H02J 7/025; H02J 7/027; A45C 2011/001 See application file for complete search history.	(58) Field of classification search
(73) Name of assignee	(73) Assignee: Apple Inc., Cupertino, CA (US) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. days. This patent is subject to a terminal disclaimer.	(56) References Cited U.S. PATENT DOCUMENTS 3,297,933 A 1/1967 McCarthy 3,892,638 A 7/1975 Stevens et al. (Continued) FOREIGN PATENT DOCUMENTS CN 1706171 12/2005 CN 101641969 2/2010 (Continued) OTHER PUBLICATIONS US 9,794,673, 10/2017, Chawan et al. (withdrawn) (Continued)	(56) References cited
(21) Application number	(21) Appl. No.: 15/588,444		
(22) Filing date	(22) Filed: May 5, 2017		
(65) Prior publication data	(65) Prior Publication Data US 2017/0245038 A1 Aug. 24, 2017		
(63) Related U.S. application data	Related U.S. Application Data (63) Continuation of application No. 15/273,691, filed on Sep. 22, 2016. (Continued)		
(51) International patent classification	(51) Int. CL. H04R 1/10 (2006.01) H04R 1/34 (2006.01) (Continued)	(57) ABSTRACT A case for an earbud includes a receiving cavity sized and shaped to accept the earbud within the receiving cavity. The case includes one or more housing magnetic components configured to magnetically attract and secure the earbud within the receiving cavity. The one or more housing magnetic components can be configured to form a Halbach array to increase the magnetic force of the one or more housing magnetic components. The earbud includes a speaker magnet and a separate magnetic element that are arranged to be (Continued)	(57) Abstract



Where to Search?



Searching for Patents

How do people usually search for patents?

- Patent number
- Keyword



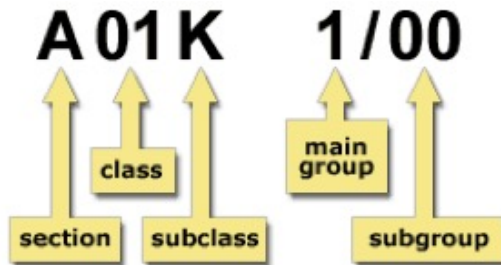
Classification	International (IPC), U.S. Classification, CPC, European Classification, etc.
Dates	Application, Issue, Publication, etc.
Names	Applicant, Inventor, Assignee, Examiner, Attorney/Agent, etc.
Numbers	Patent, Publication, Application, Priority, etc.

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

US Patent Classification

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

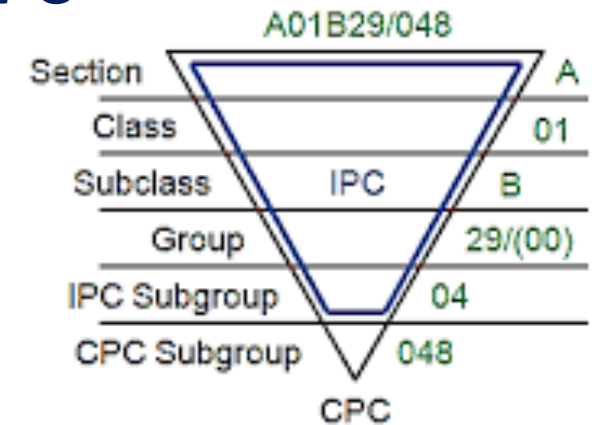
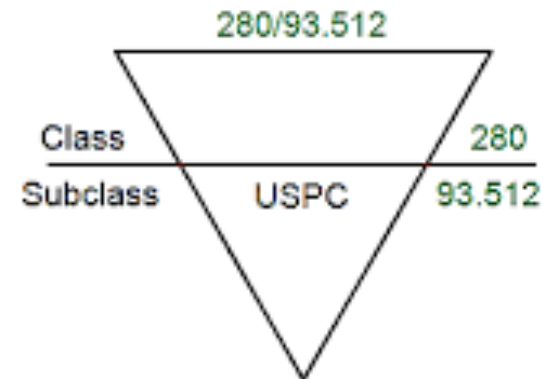
424 / 497
Class / SubClass

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



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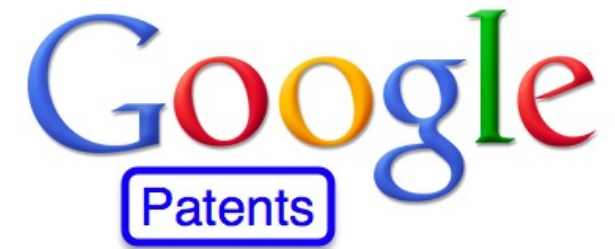


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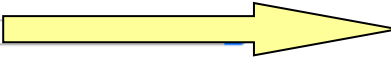


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All Fields
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Application Date
Application Serial Number
Application Type
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Assignee State
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Primary Examiner
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Inventor Name
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WO1995US15925 Priority number: Tooltip

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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



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Field Combination

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AND	Application Number	=	
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AND	English Abstract	=	
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AND	Inventor Name	=	
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AND	English Description	=	
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AND	Inventor Name	Is Empty:	☒ N/A ☐ Yes ☐ No

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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. 32854HEHP0668		AND
Patent Number	e.g. 236542		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. F116		AND
PGT Application Number	e.g. PCT/US16/029937		AND
PGT Publication Number	e.g. WO2016/127691		AND



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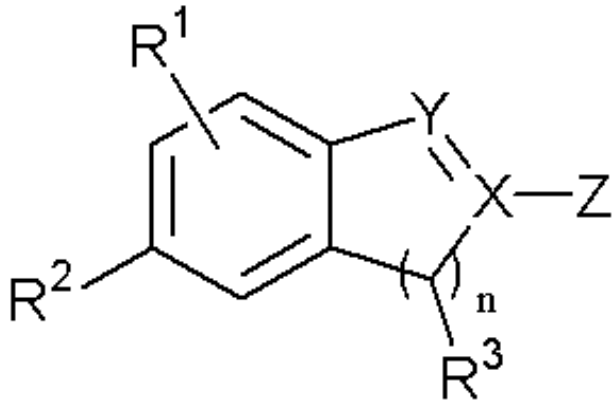


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Chemical Structures & Sequences



Chemical Search Databases

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

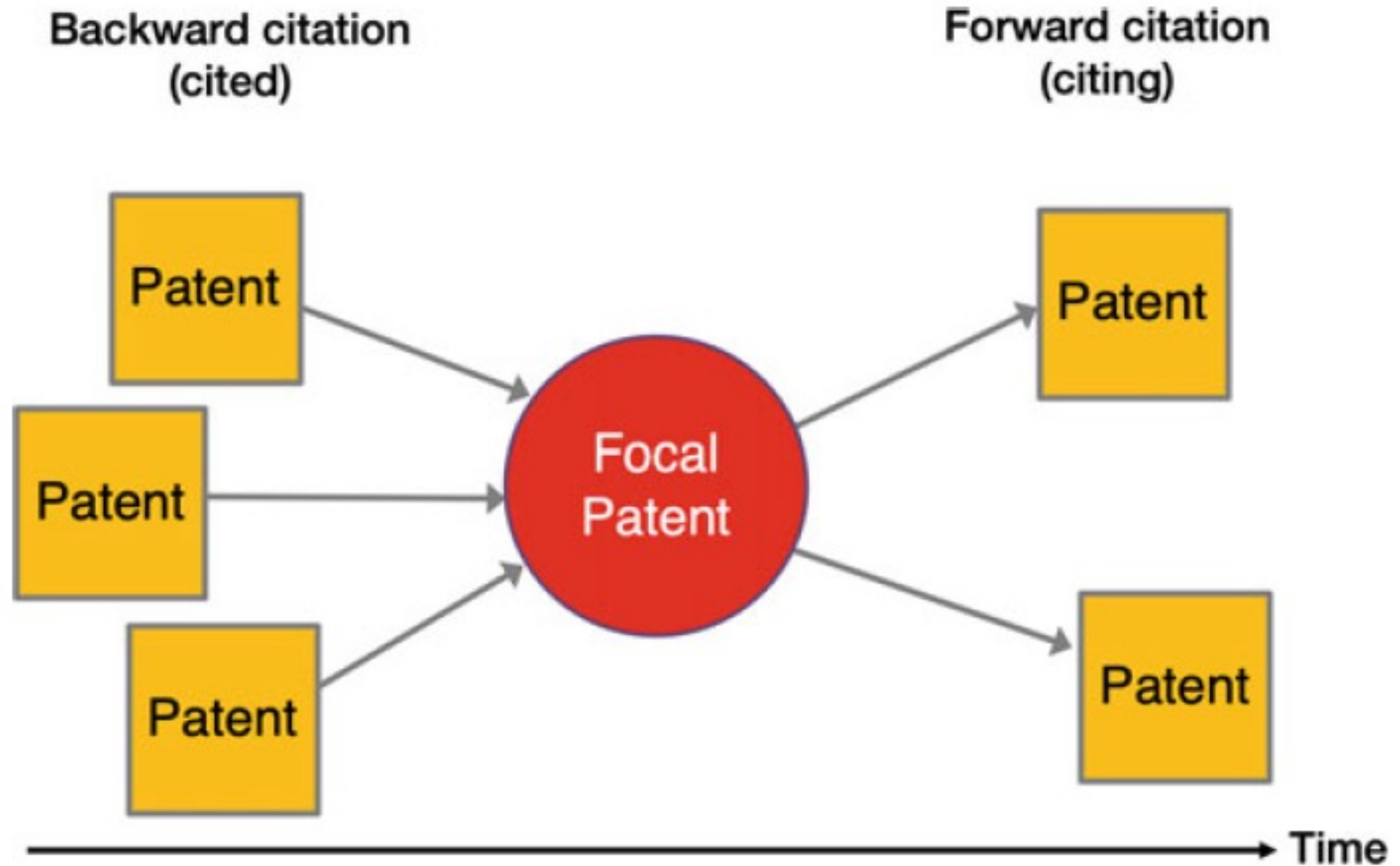
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 Met Cys Gly Ile Val Gly Phe Ile Gly Glu Gln Asp Ala Lys Glu Ile Leu Leu Lys Gly Leu Glu Lys Leu Glu
 TAT CGT GGA TAT GAT TCA GCA GGT ATT GCA GTA CAA GCA GAG AAC GGT GTT GTT GTA TAC AAA GAA AAA GGC CGT
 Tyr Arg Gly Tyr Asp Ser Ala Gly Ile Ala Val Gln 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

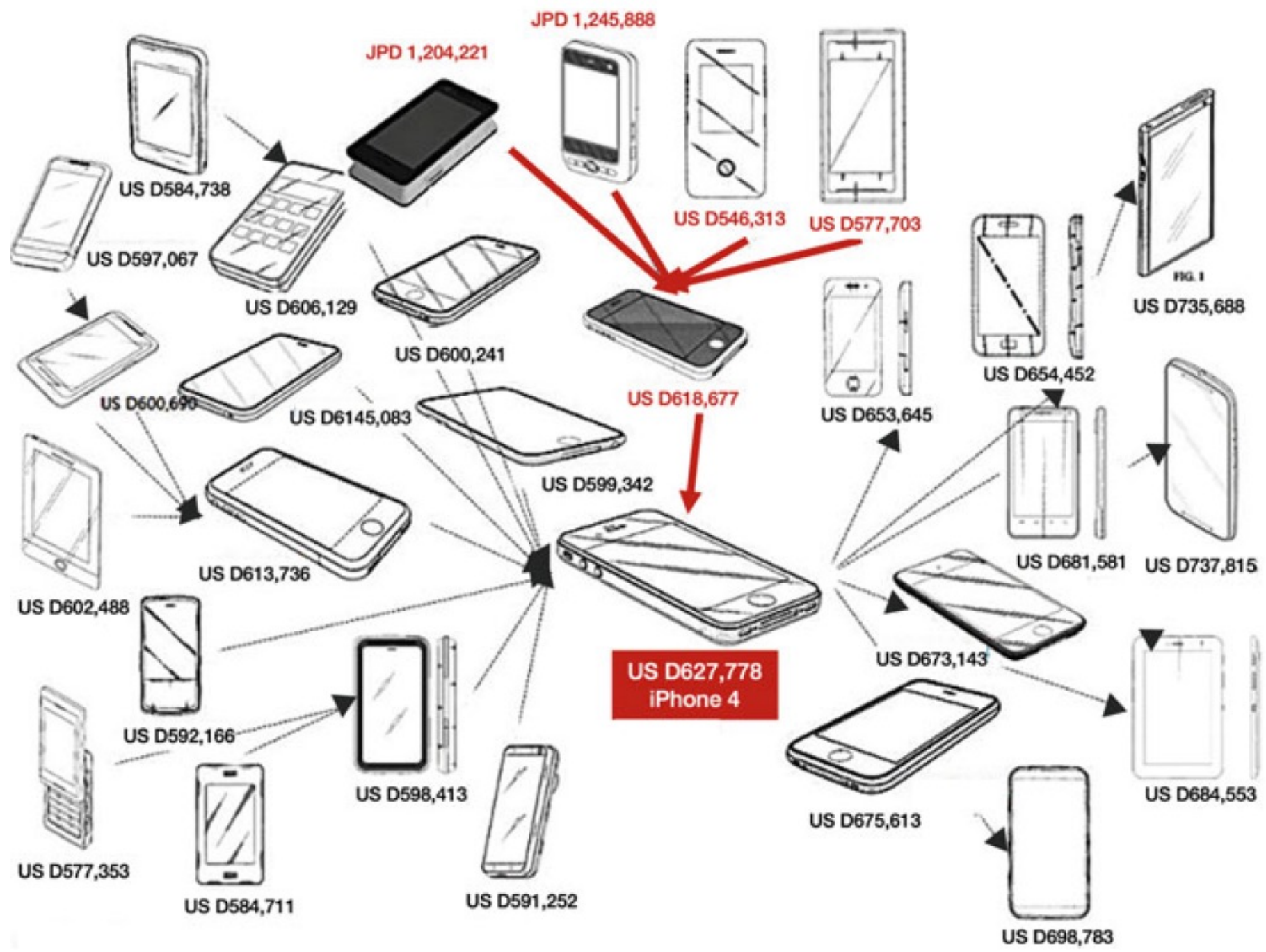
Sequence Search Databases

- 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)

Citations

Indicators of Innovation





Patents - Relationships

Relation type	Example
Co-occurrence	Co-classification of technologies Co-classification of design classes Co-occurring keywords in patent documents
Relations	Co-inventorship Co-citations Patent family Origin of the inventor (spatial locations)
Interactions	Patent transactions (e.g., M&As) Role of assignee interactions (competition, collaboration, or coopetition)
Flows	Backward and forward citations Patent to patent citations Patent to non-patent literature citations

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
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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
 - > 120 million patents published
- Languages
 - Different languages
 - Keywords/synonyms
 - Errors
- Geography
 - Coverage
- Time periods
 - Coverage
- Time and Budget Spent

Coverage : Differences

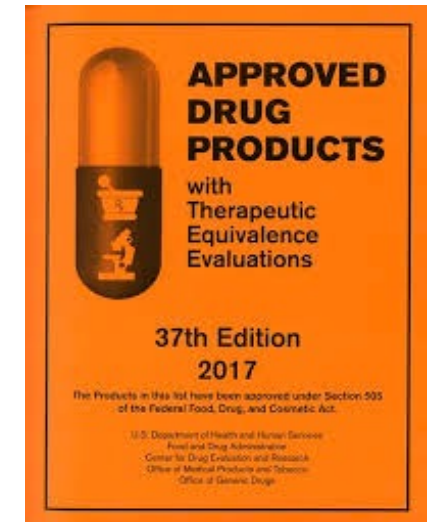
- Patent collections
 - Which countries or regions?
- Document types
 - Patent applications? Granted patents? More?
- Document elements
 - Bibliographic data? Descriptions? Claims
- Time period
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 - Multiple language versions? Translations?
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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



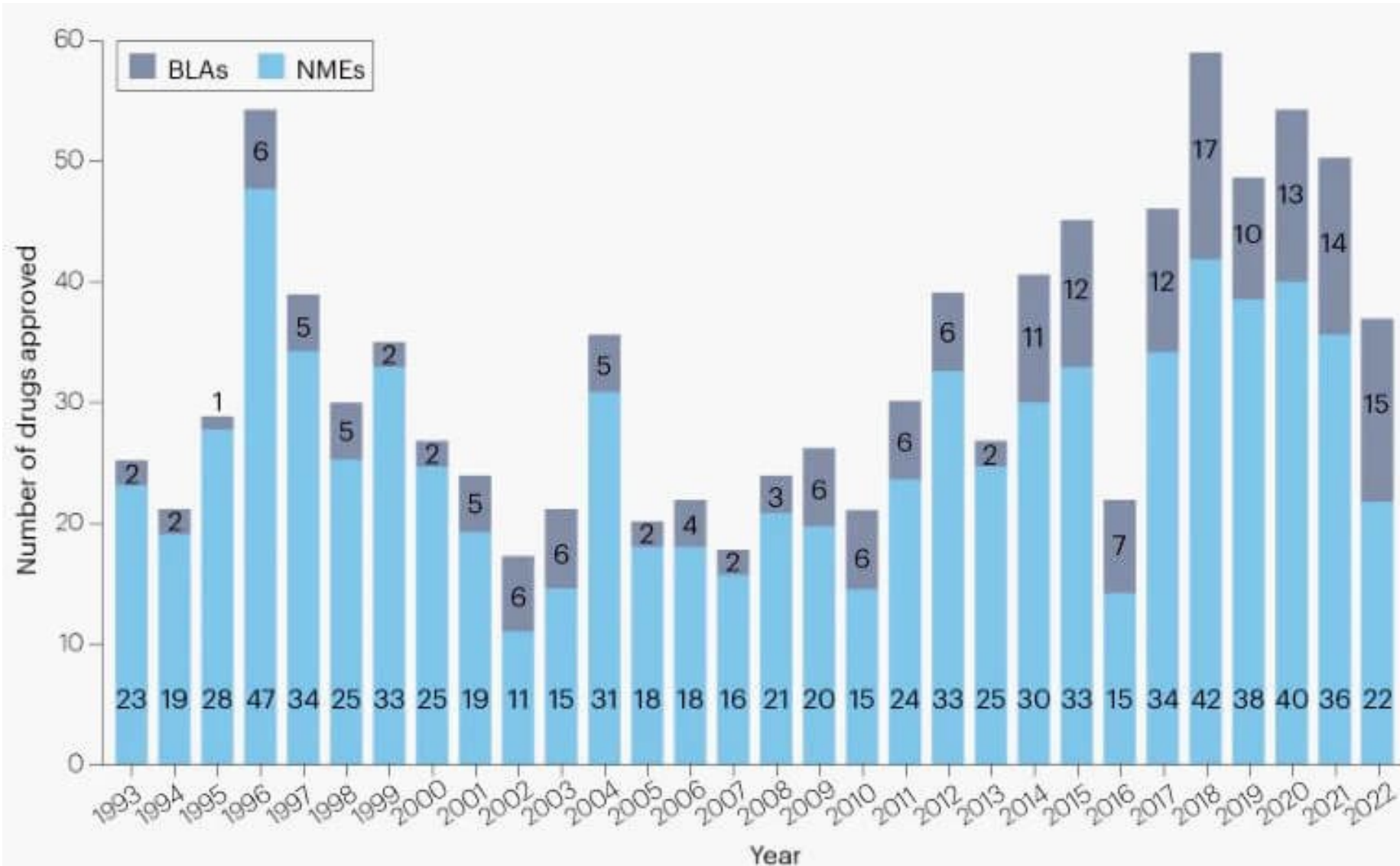
Orange Book

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
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 - proprietary name,
 - applicant,
 - application number,
 - dosage form,
 - route of administration or
 - patent number.
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Drugs@FDA – Novel FDA Approvals



Drugs@FDA - FDA Approved Drug Products

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 - Application Number



Patent Search – An Example

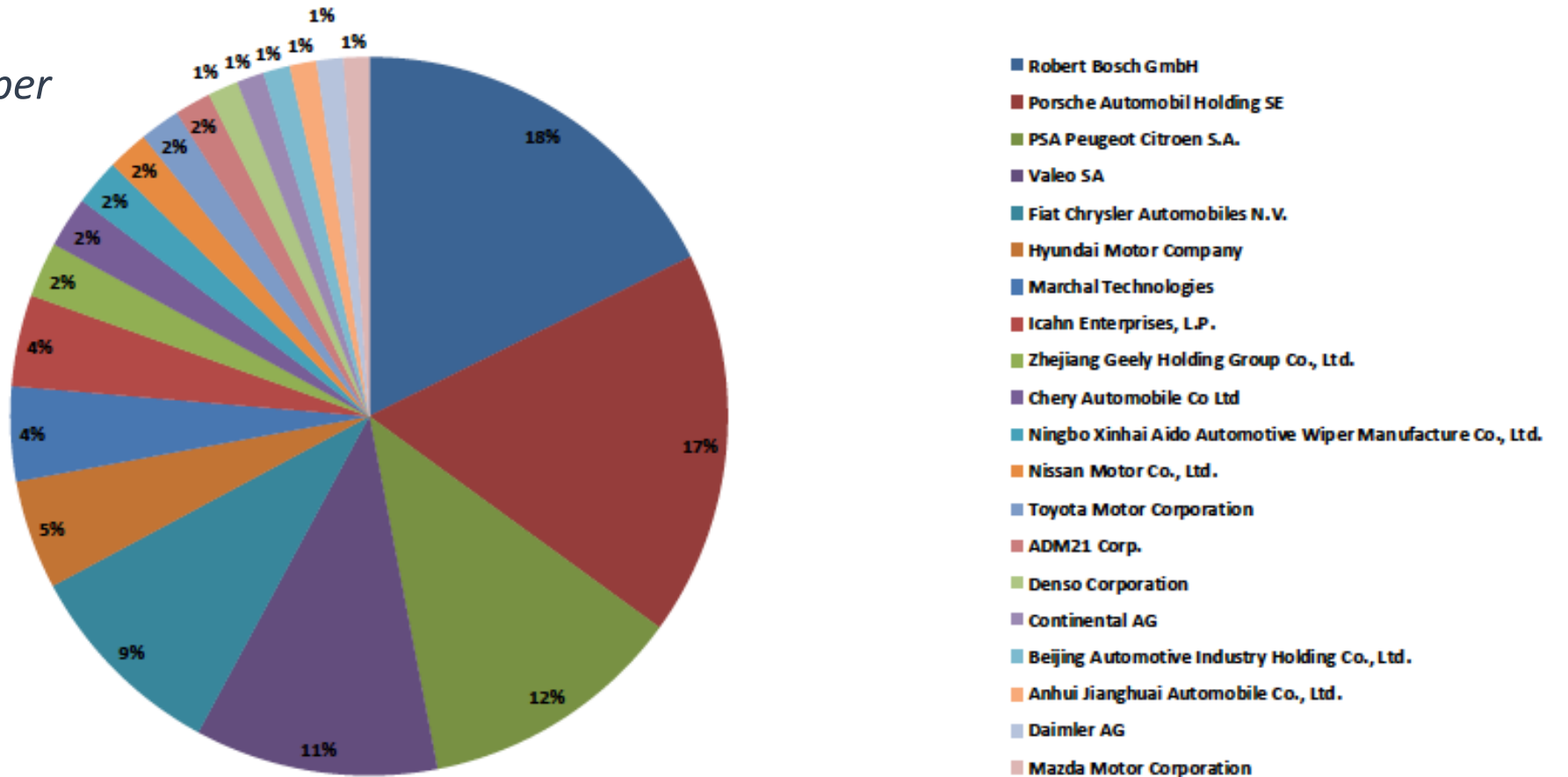
Keyword: *automobile wiper*

Organizations

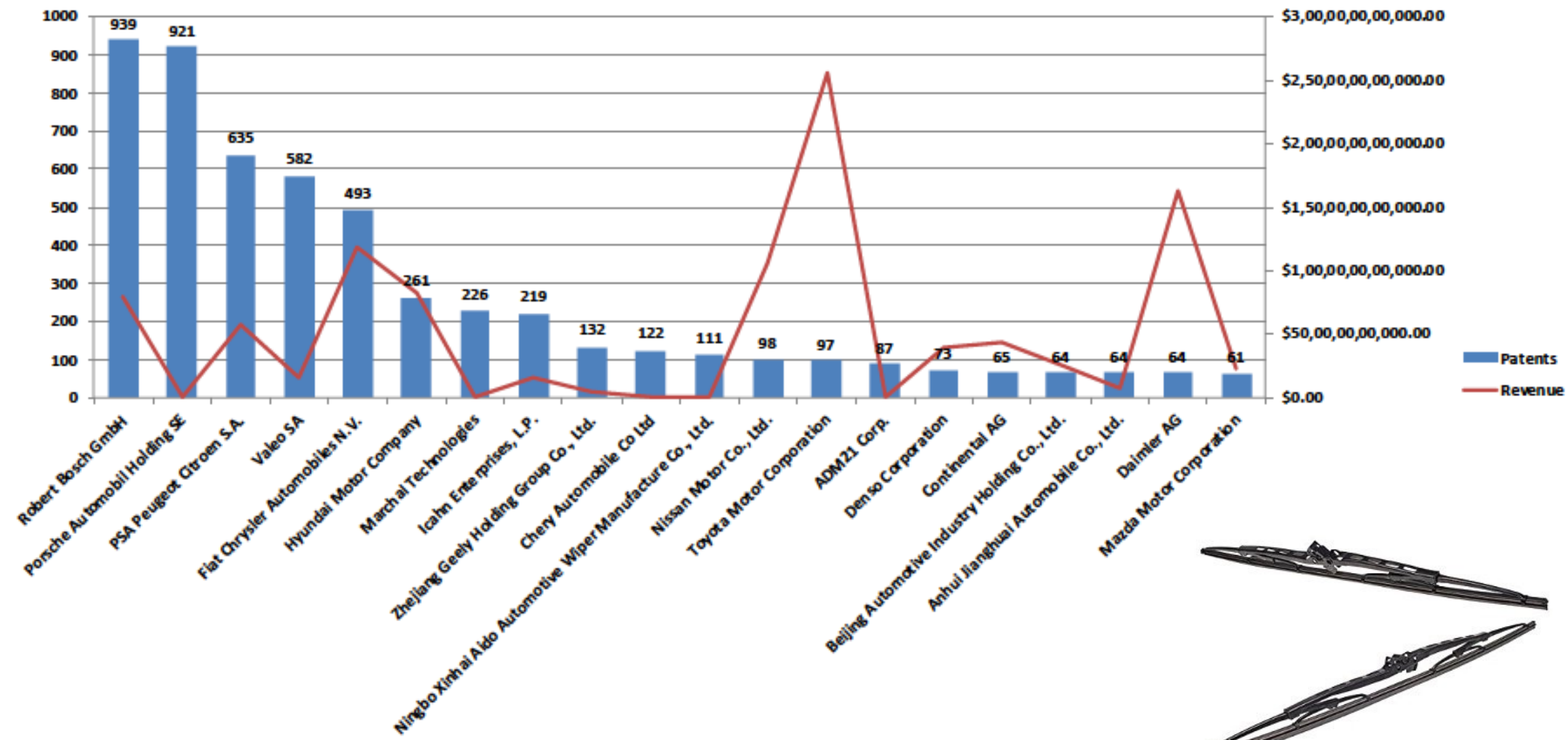


Patents: 12003
Organizations: 1978

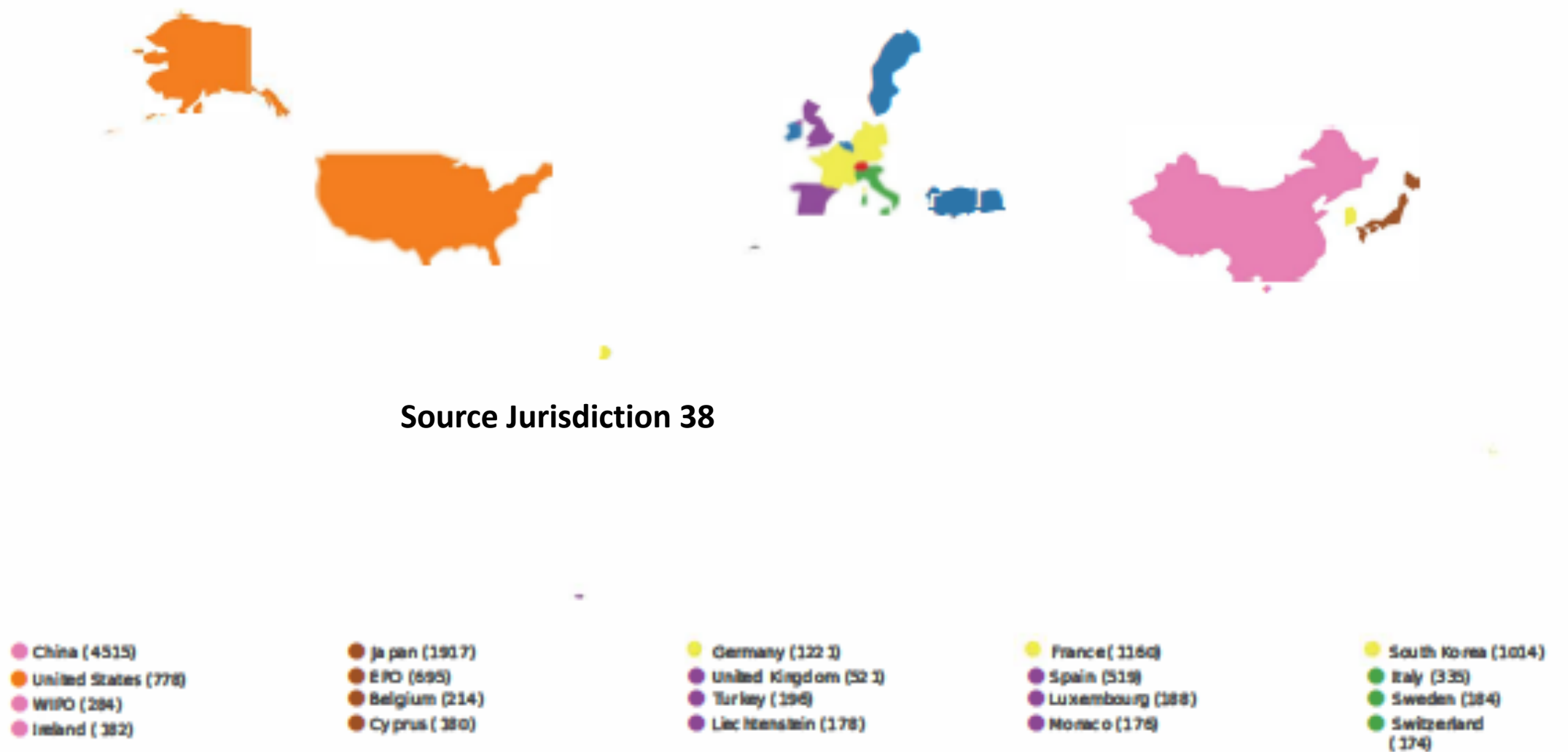
% Patents Per Company (Top 20)



Patents per Company (with Revenue)

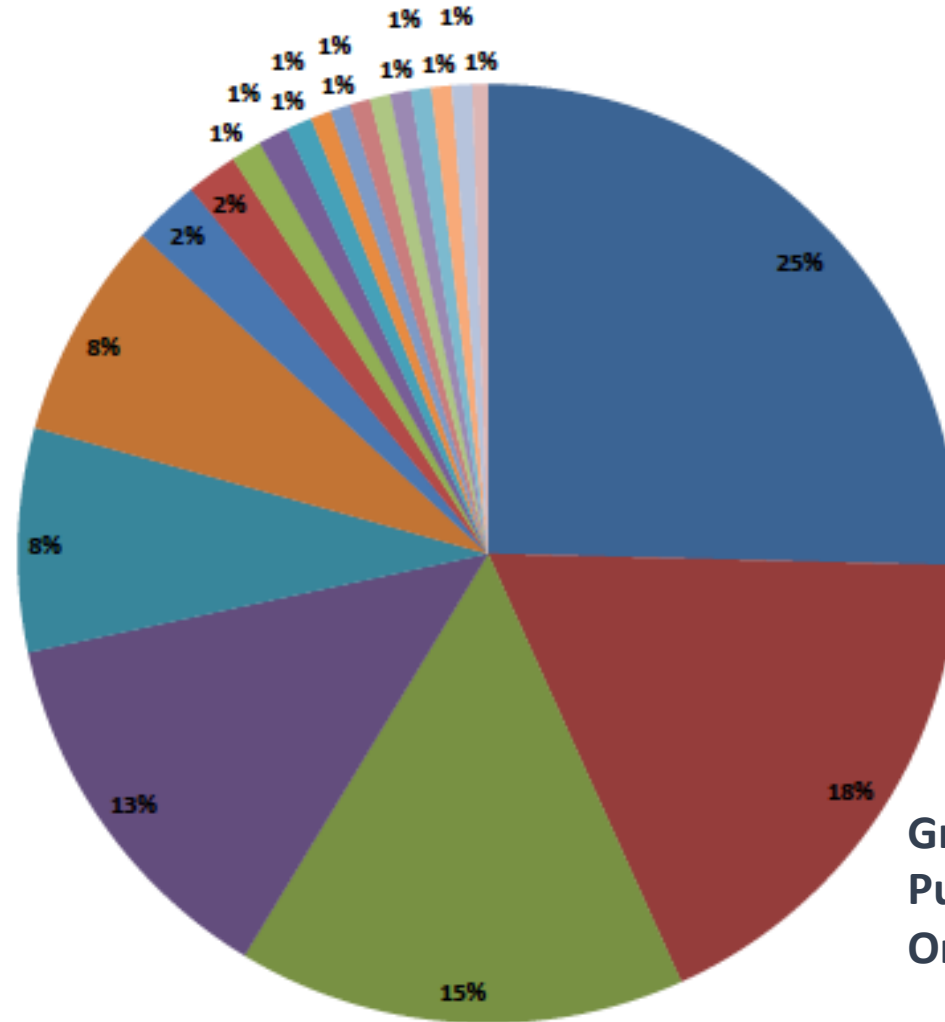


Patents per Source Jurisdiction (Incl Designated States)



% Patents Per Company (Top 20)

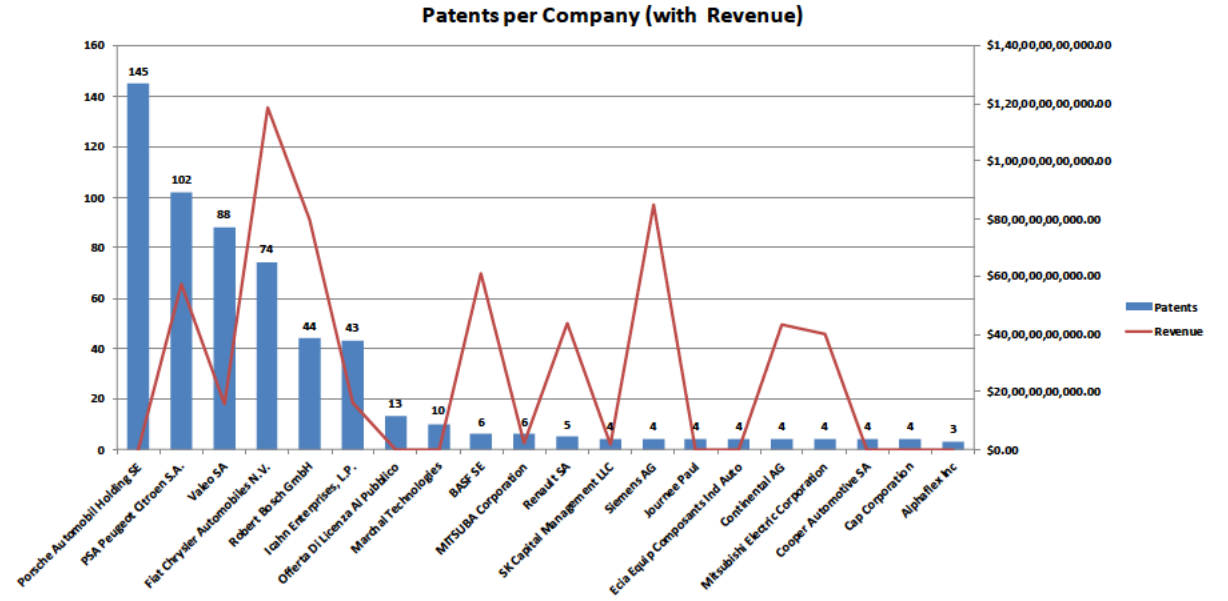
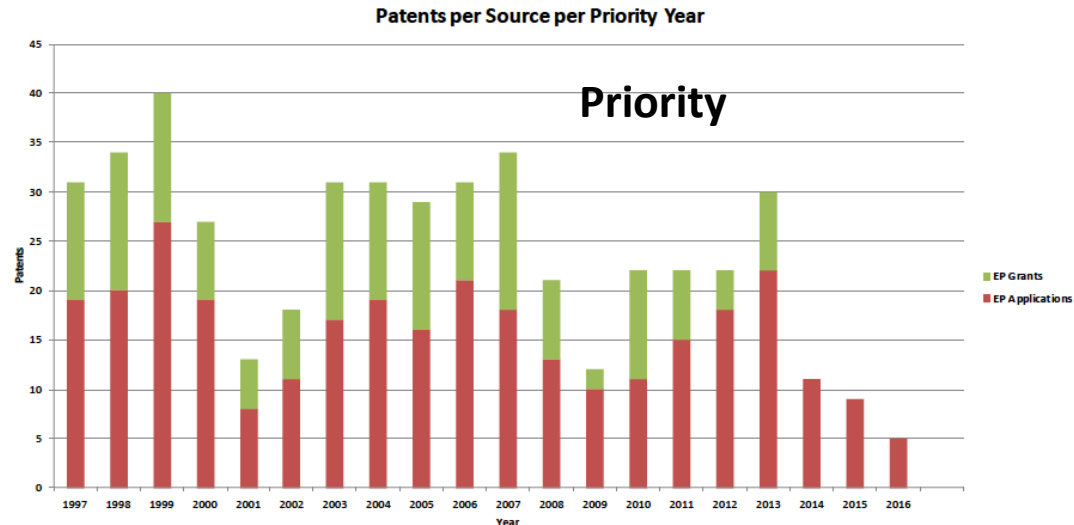
Active Patents
EPO Grants
EPO Publications



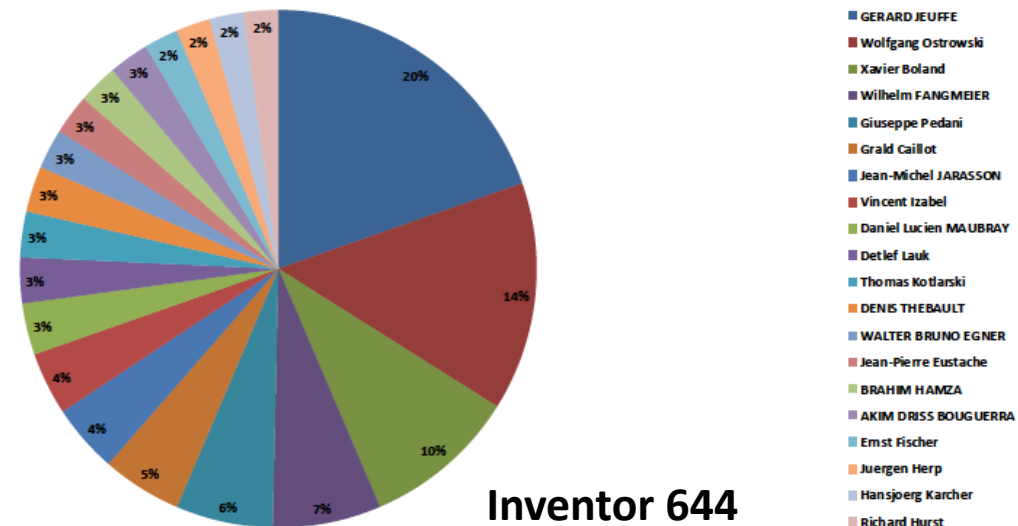
Grants: 263
Publications: 432
Organizations: 86

- Porsche Automobil Holding SE
- PSA Peugeot Citroen S.A.
- Valeo SA
- Fiat Chrysler Automobiles N.V.
- Robert Bosch GmbH
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- Continental AG
- Mitsubishi Electric Corporation
- Cooper Automotive SA
- Cap Corporation
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Patents & Publications - EPO

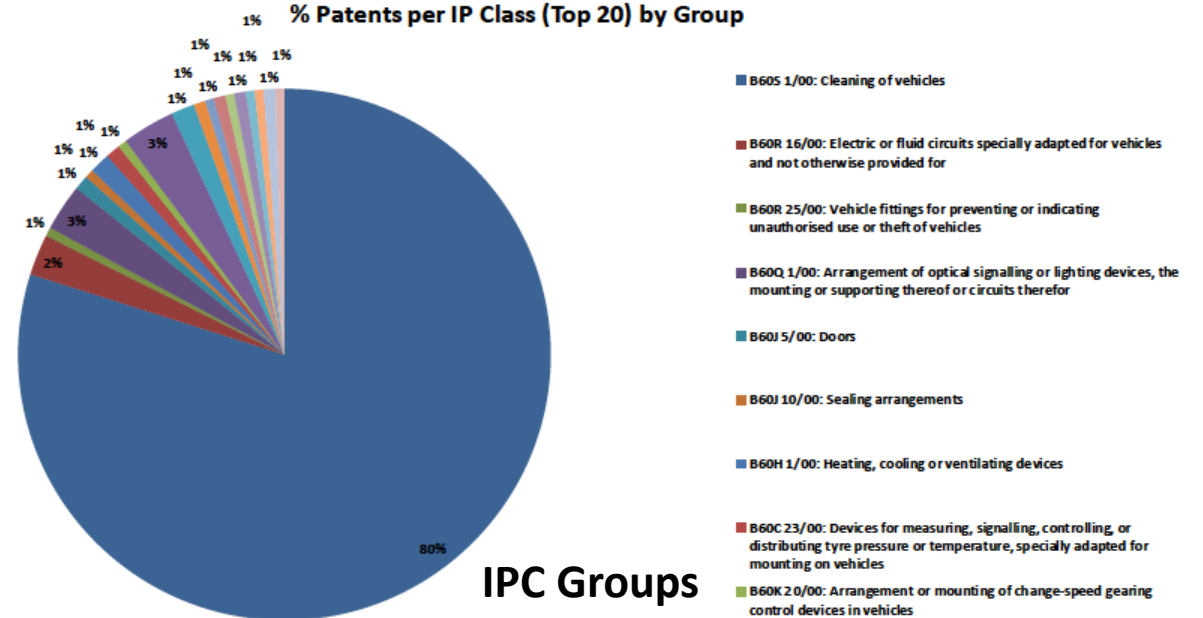


% Patent Share per Inventor (Top 20)



Inventor 644

% Patents per IP Class (Top 20) by Group

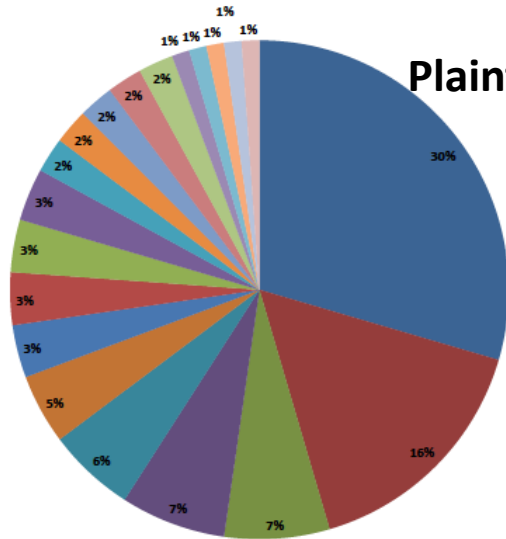


IPC Groups

Patent Litigations – 107 Cases

% Cases per Plaintiff (Top 20]

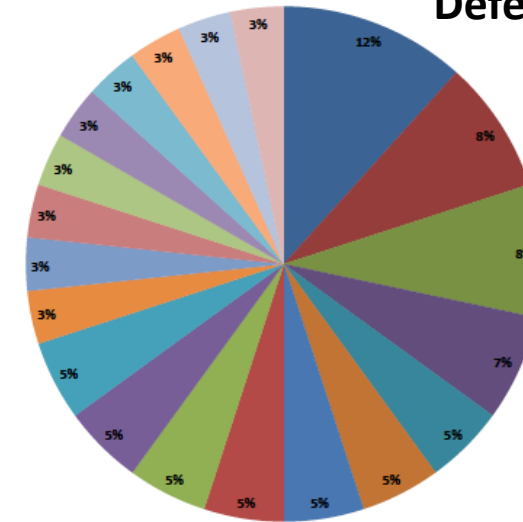
Plaintiff 43



Charlesbank Capital Partners, LLC
Robert Bosch GmbH
Magna International Inc.
Velo-city Patent LLC
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ZF Friedrichshafen AG
One Pass Water Blade, LLC
Kearns Robert W
E-Watch, Inc.
Winplus North America, Inc.
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Gauge Works, LLC
Voxx International Corporation
Jay Ryu
Terry Bumi Ryu
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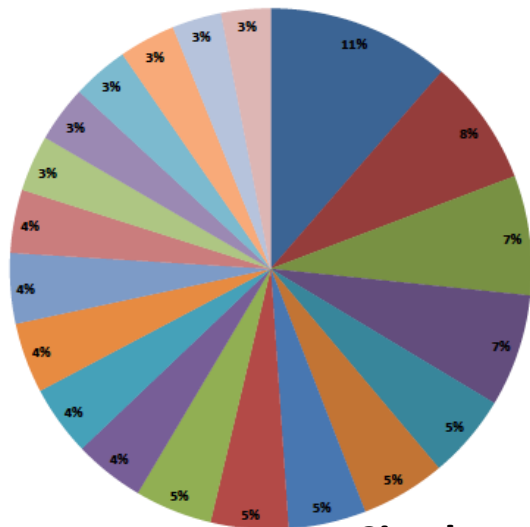
% Cases per Defendant (Top 20]

Defendant 180



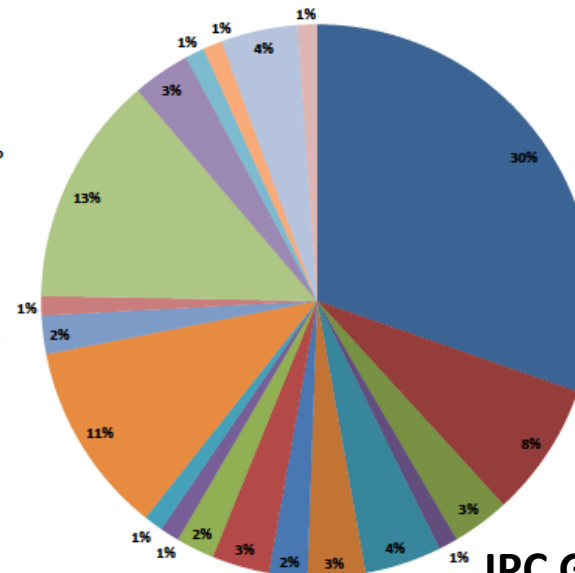
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Fiat Chrysler Automobiles N.V.
Scan Top Enterprise Co
Magna International Inc.
Honda Motor Co., Ltd.
Bayerische Motoren Werke AG
Trico Products Corp
ZF Friedrichshafen AG
Porsche Automobil Holding SE
Corea Autoparts Producing Corporation
Cap America, 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

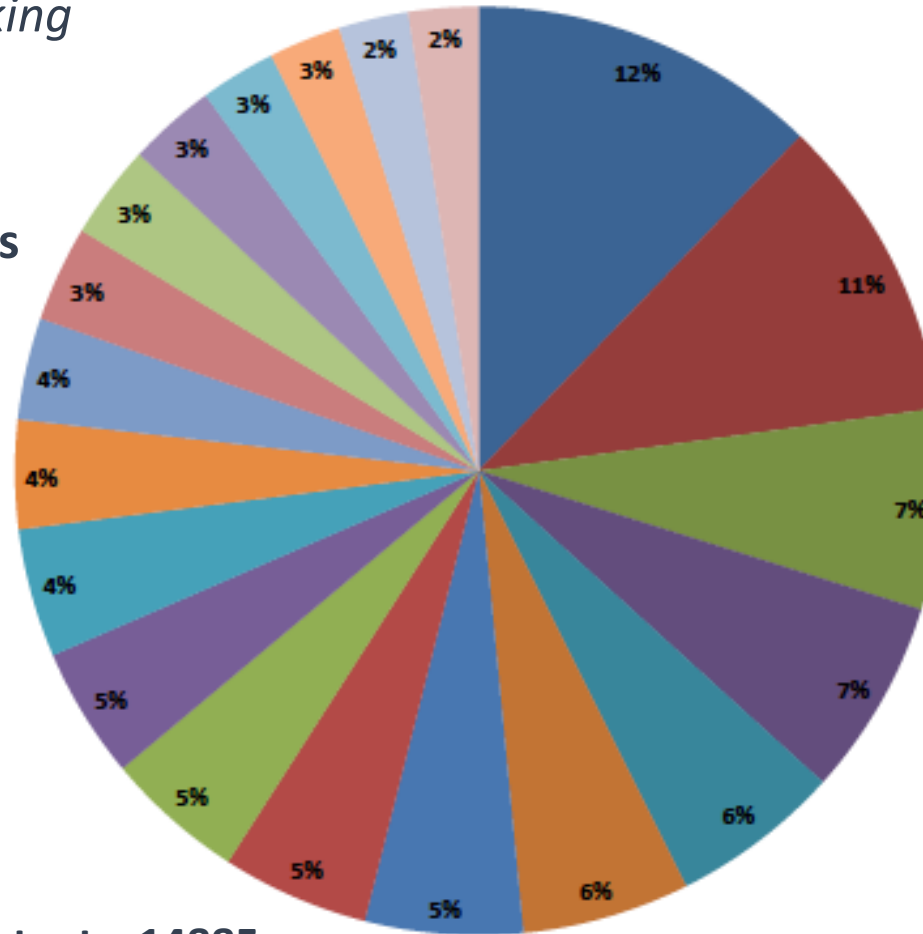
% Patents Per Company (Top 20)

Keyword: *blister packing*

Organizations

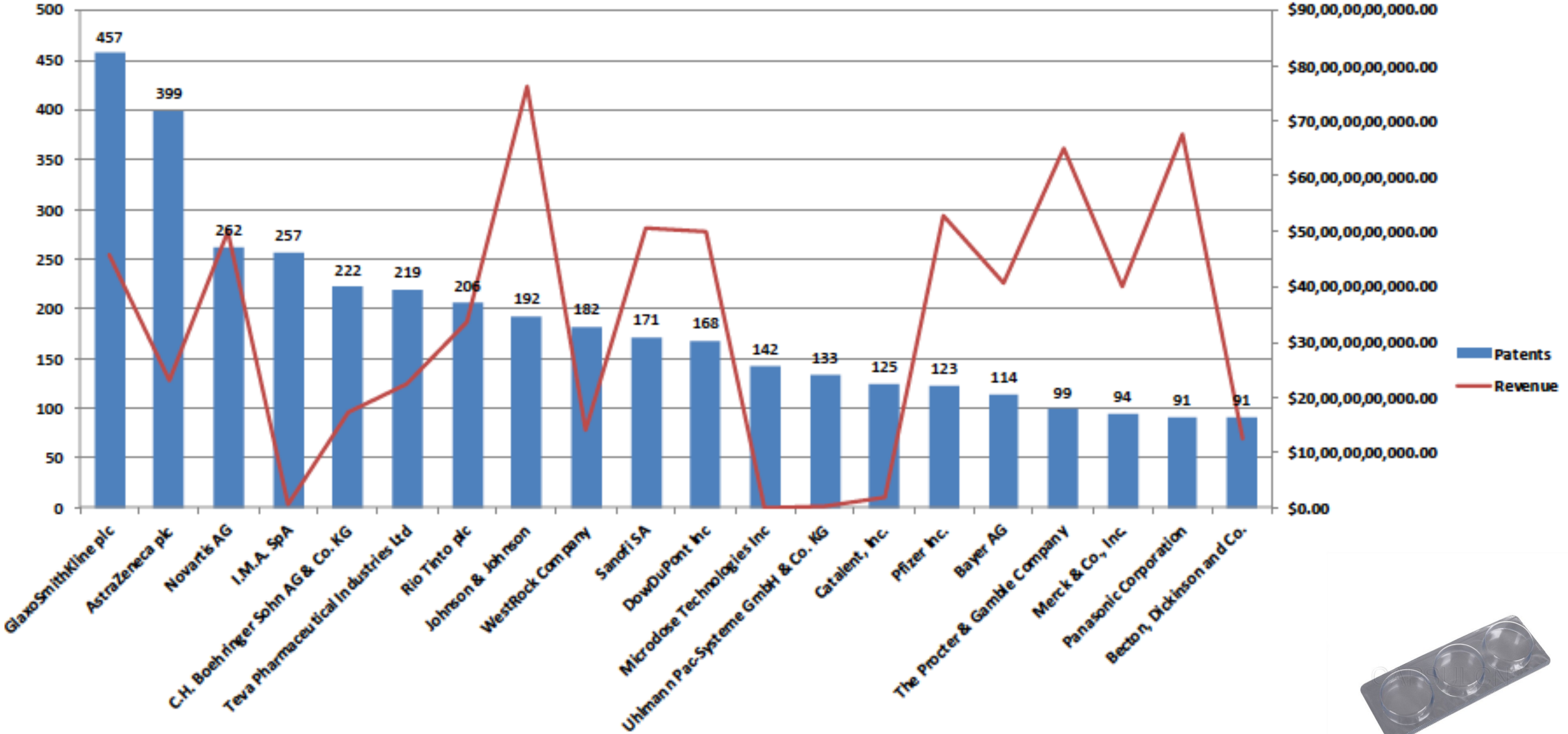


Patents: 14885
Organizations: 3408

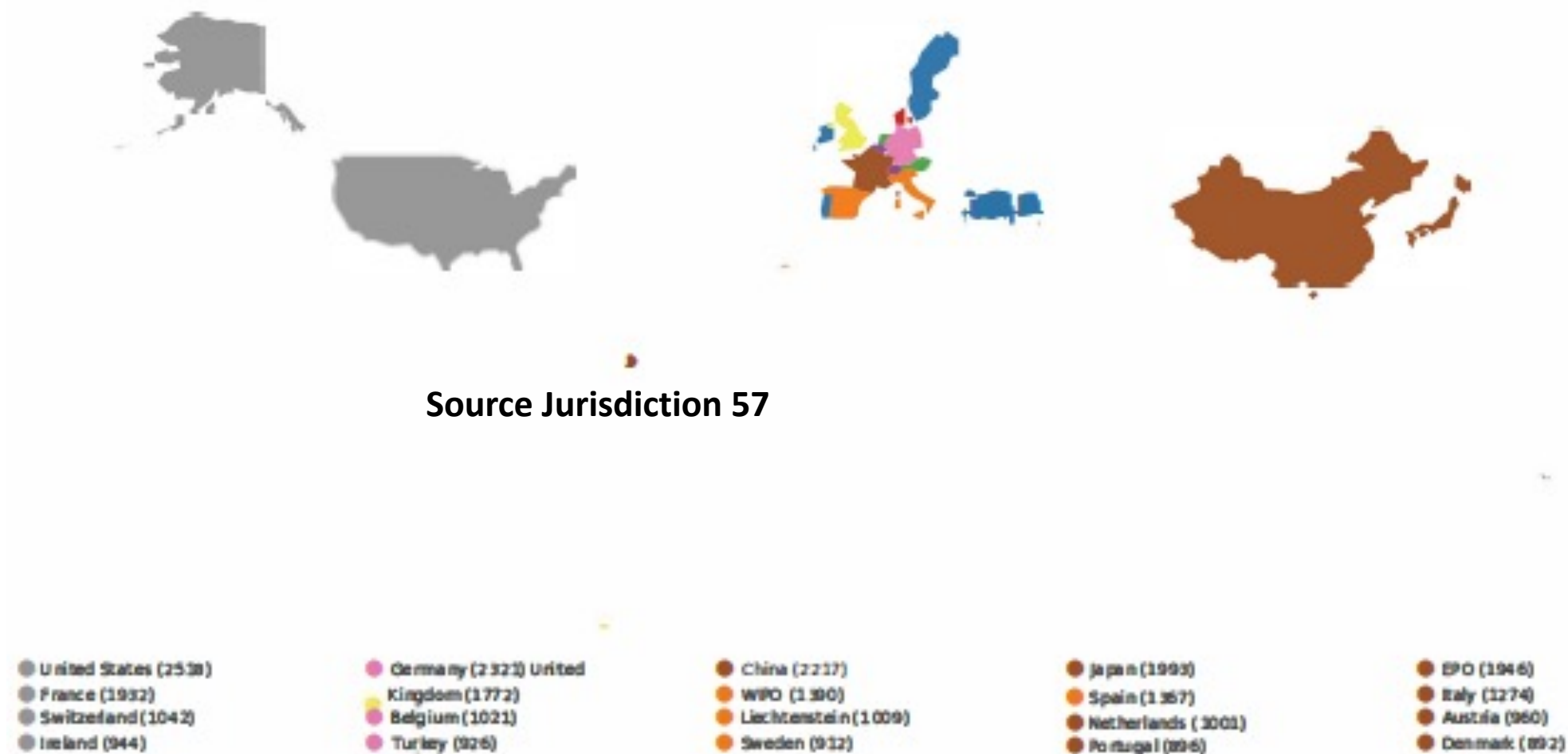


- GlaxoSmithKline plc
- AstraZeneca plc
- Novartis AG
- I.M.A. SpA
- C.H. Boehringer Sohn AG & Co. KG
- Teva Pharmaceutical Industries Ltd
- Rio Tinto plc
- Johnson & Johnson
- WestRock Company
- Sanofi SA
- DowDuPont Inc
- Microdose Technologies Inc
- Uhlmann Pac-Systeme GmbH & Co. KG
- Catalent, Inc.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

Patents per Company (with Revenue)

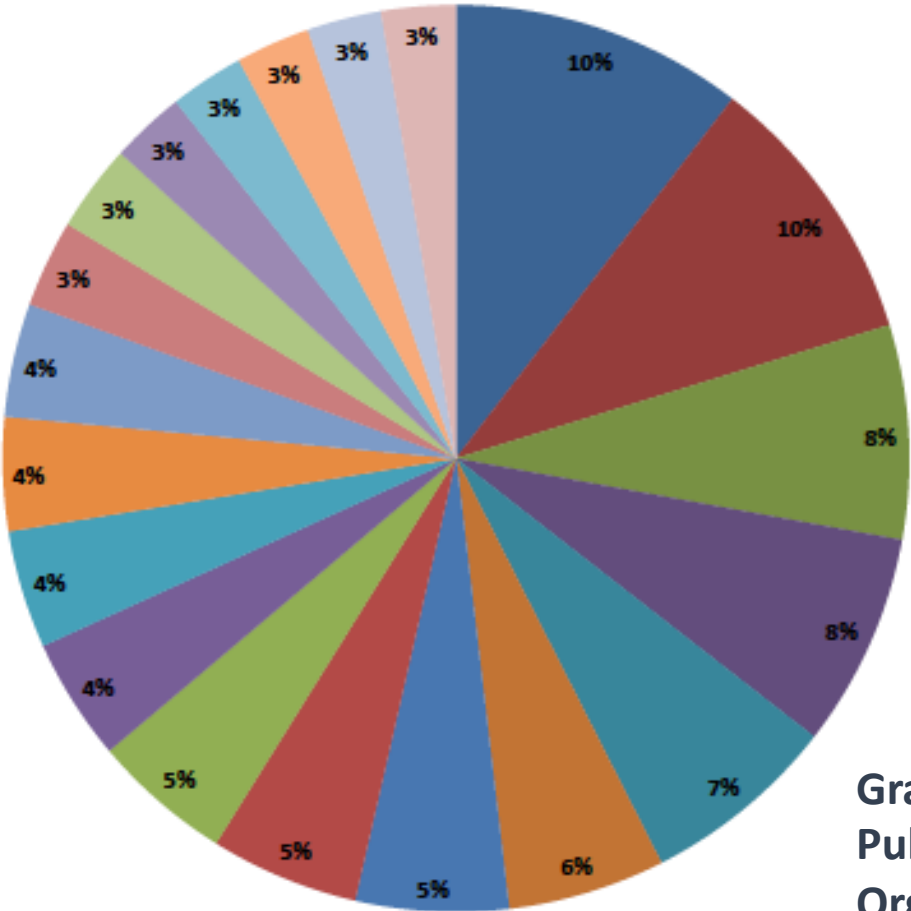


Patents per Source Jurisdiction (incl Designated States)



Source Jurisdiction 57

% Patents Per Company (Top 20)



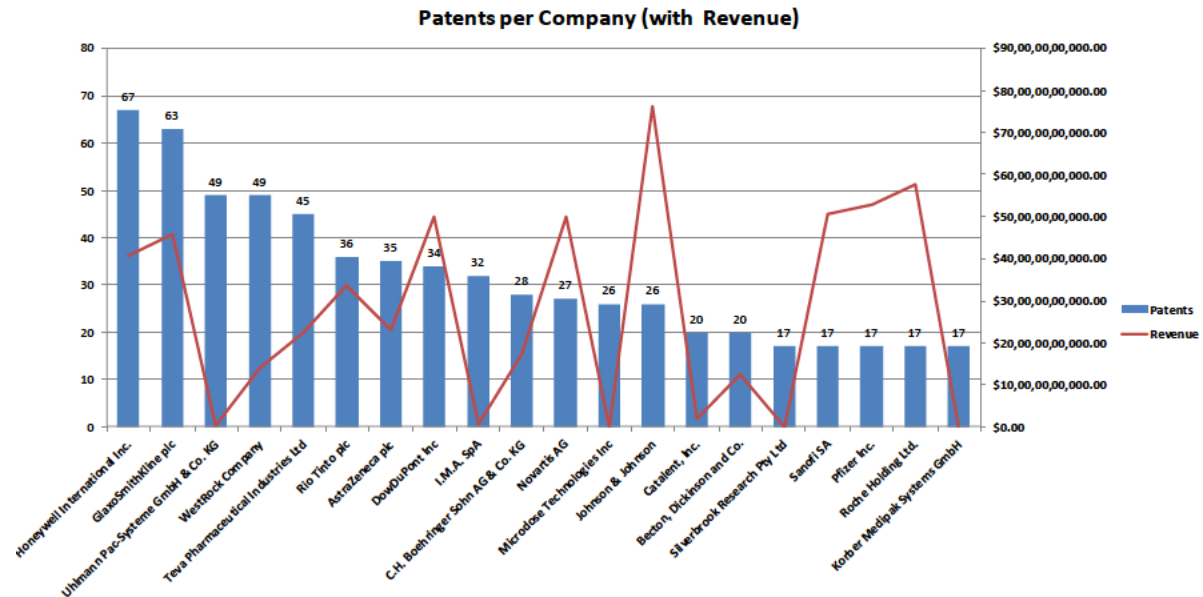
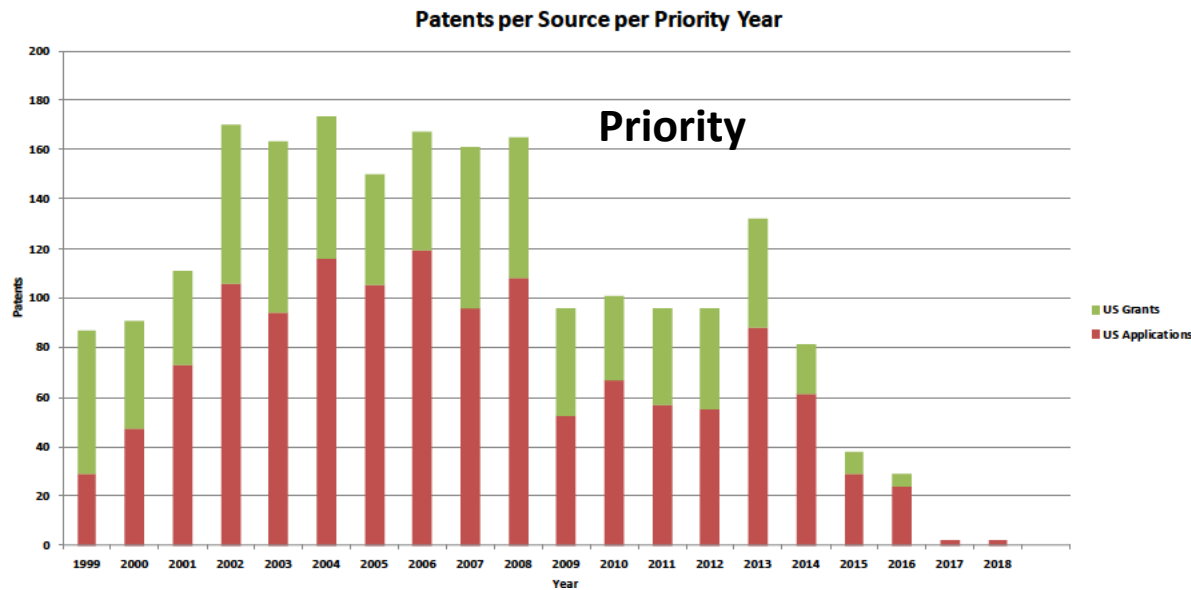
Active Patents
US Grants
US Publications

Organizations

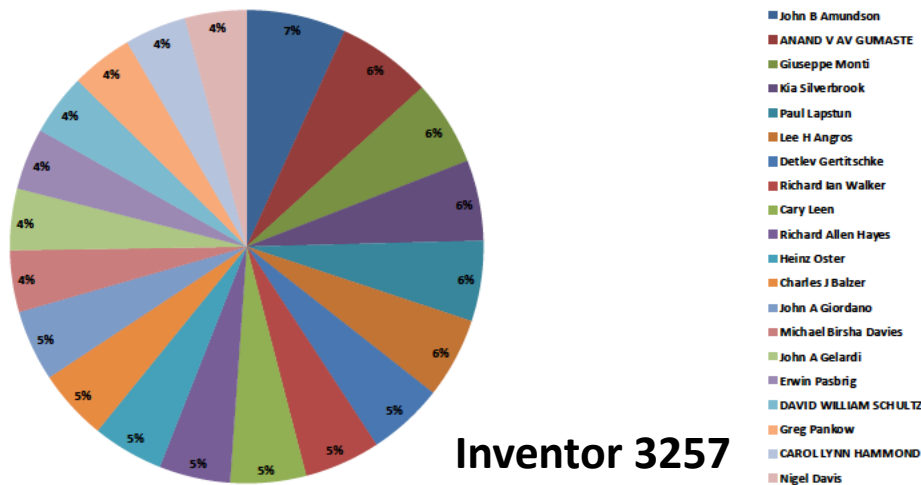
Grants: 1151
Publications: 1367
Organizations: 731

- Honeywell International Inc.
- GlaxoSmithKline plc
- Uhlmann Pac-Systeme GmbH & Co. KG
- WestRock Company
- Teva Pharmaceutical Industries Ltd
- Rio Tinto plc
- AstraZeneca plc
- DowDuPont Inc
- I.M.A. SpA
- C.H. Boehringer Sohn AG & Co. KG
- Novartis AG
- Microdose Technologies Inc
- Johnson & Johnson
- Catalent, Inc.
- Becton, Dickinson and Co.
- Silverbrook Research Pty Ltd
- Sanofi SA
- Pfizer Inc.
- Roche Holding Ltd.
- Korber Medipak Systems GmbH

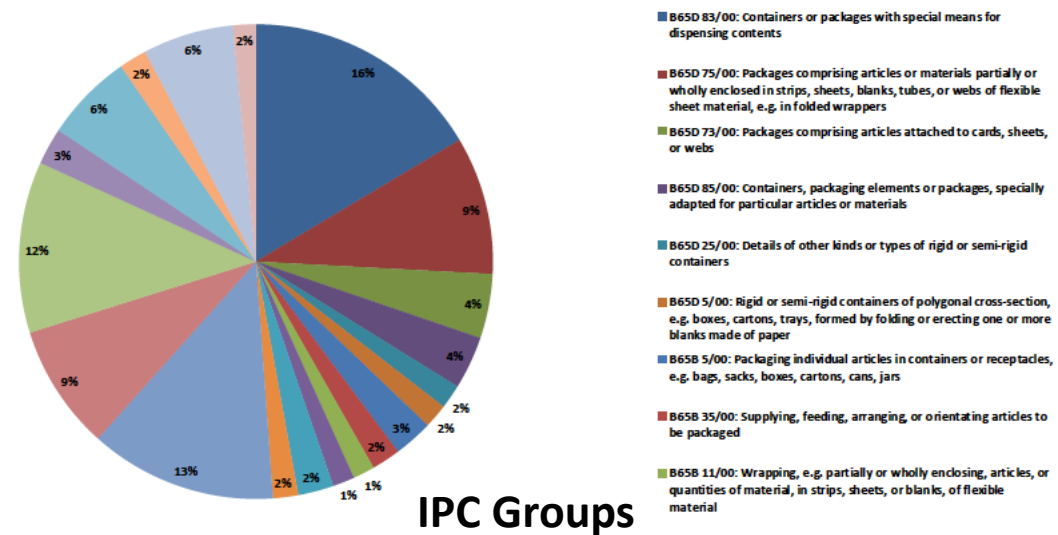
Patents & Publications - USPTO



% Patent Share per Inventor (Top 20)

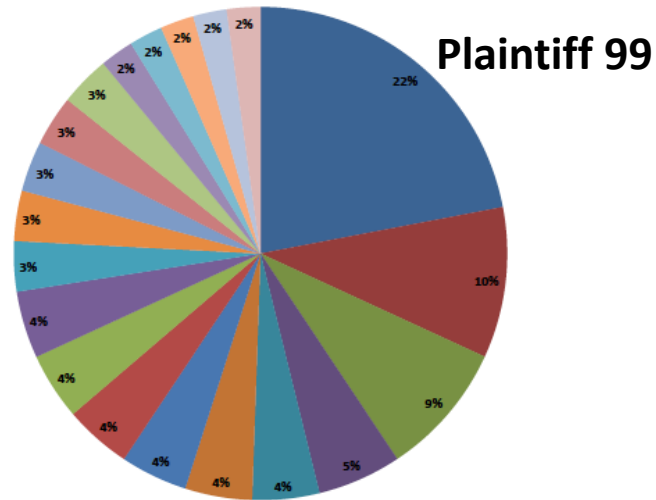


% Patents per IP Class (Top 20) by Group



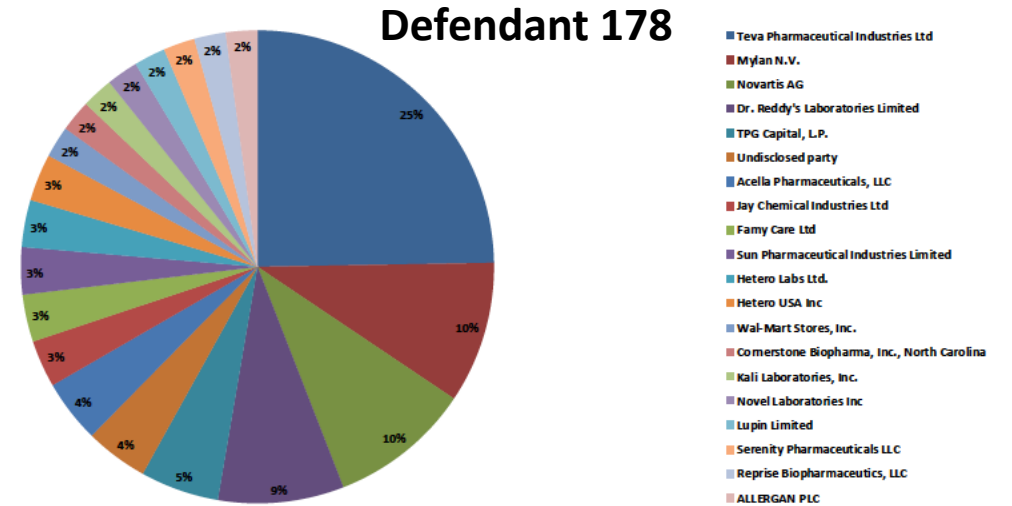
Patent Litigations – 147 Cases

% Cases per Plaintiff (Top 20)



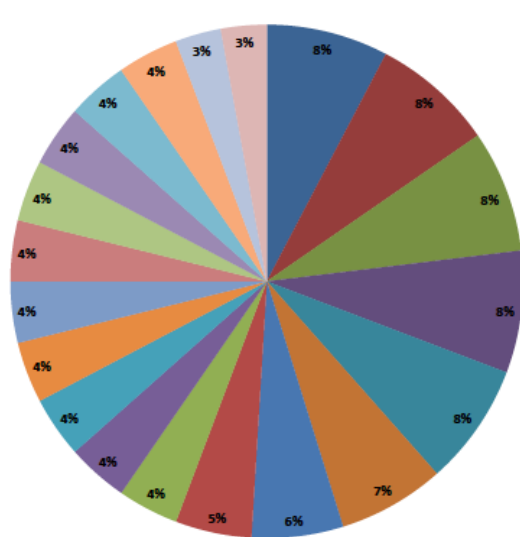
- Teva Pharmaceutical Industries Ltd
- C.H. Boehringer Sohn AG & Co. KG
- Novartis AG
- Dr. Reddy's Laboratories Limited
- TPG Capital, L.P.
- Undisclosed party
- Acella Pharmaceuticals, LLC
- Jay Chemical Industries Ltd
- Famy Care Ltd
- Sun Pharmaceutical Industries Limited
- Hetero Labs Ltd.
- Hetero USA Inc
- Wal-Mart Stores, Inc.
- Comerstone Biopharma, Inc., North Carolina
- Kali Laboratories, Inc.
- Novel Laboratories Inc
- Lupin Limited
- Serenity Pharmaceuticals LLC
- Reprise Biopharmaceutics, LLC
- ALLERGAN PLC

% Cases per Defendant (Top 20)



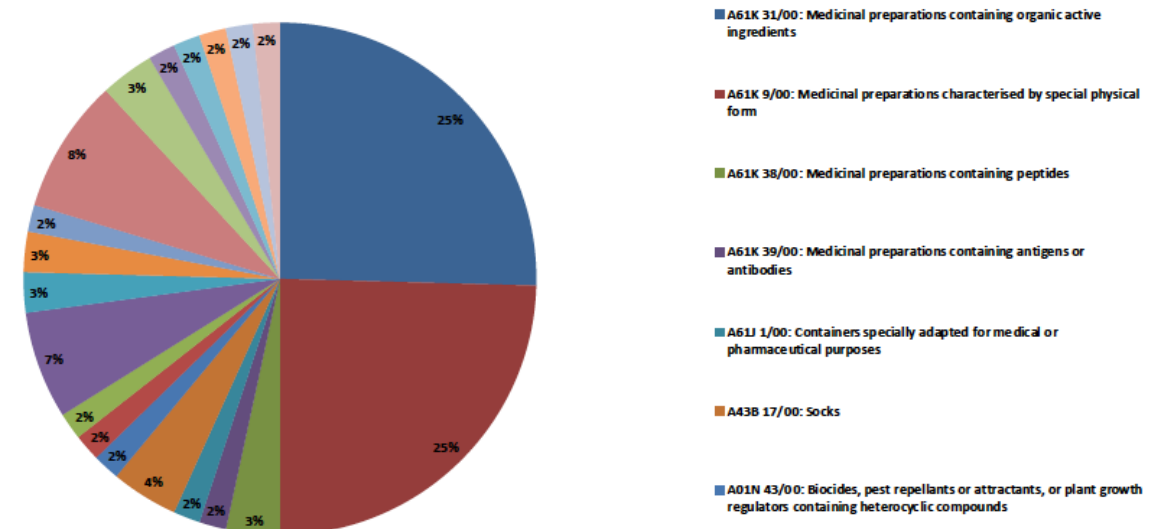
- Teva Pharmaceutical Industries Ltd
- Mylan N.V.
- Novartis AG
- Dr. Reddy's Laboratories Limited
- TPG Capital, L.P.
- Undisclosed party
- Acella Pharmaceuticals, LLC
- Jay Chemical Industries Ltd
- Famy Care Ltd
- Sun Pharmaceutical Industries Limited
- Hetero Labs Ltd.
- Hetero USA Inc
- Wal-Mart Stores, Inc.
- Comerstone Biopharma, Inc., North Carolina
- Kali Laboratories, Inc.
- Novel Laboratories Inc
- Lupin Limited
- Serenity Pharmaceuticals LLC
- Reprise Biopharmaceutics, LLC
- ALLERGAN PLC

% Cases per Patent (Top 20)



- US6270796: Antihistamine/decongestant regimens for treating rhinitis
- US6200604: Sublingual buccal effervescent
- US6974590: Sublingual buccal effervescent
- US7862832: Generally linear effervescent oral fentanyl dosage form and methods of administering
- US7862833: Effervescent oral opiate dosage forms and methods of administering opiates
- US8426586: Process for preparing amino crotonyl compounds
- US8545884: Solid pharmaceutical formulations comprising bitw 2992
- US7346935: Stretchable high friction socks
- US7320969: Oral contraceptives to prevent pregnancy and diminish premenstrual symptomatology
- US6024981: Rapidly dissolving robust dosage form
- US6221392: Rapidly dissolving robust dosage form
- US8092832: Generally linear effervescent oral fentanyl dosage form and methods of administering
- US6814983: Compositions and methods for nutrition supplementation

% Cases per IP Class (Top 20) by Group



- A61K 31/00: Medicinal preparations containing organic active ingredients
- A61K 9/00: Medicinal preparations characterised by special physical form
- A61K 38/00: Medicinal preparations containing peptides
- A61K 39/00: Medicinal preparations containing antigens or antibodies
- A61J 1/00: Containers specially adapted for medical or pharmaceutical purposes
- A43B 17/00: Socks
- A01N 43/00: Biocides, pest repellants or attractants, or plant growth regulators containing heterocyclic compounds

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



Smart Searching

Why are you searching for patent information?

- Is it part of the normal business process?
- Is it to keep an eye on technological developments?
- Is the company planning new products?
- Is it to defend your portfolio?
- Are you on the lookout for mergers and acquisitions?
- What level is the search work you will be doing?
- Is it mission critical, crisis management?
- Damage limitation?
- Is it strategic, long-term?
- Is it tactical, short term?
- Do you engage in one-off searches?

Who sees the results of your work?

- What decisions are based on your results:
- Who takes those decisions?
- What format do they want your reports and analyses in?



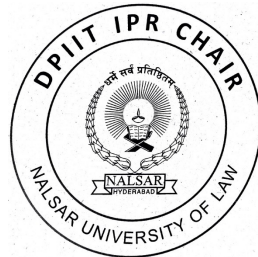
What kind of information are you looking to extract?

- Purely technical, invention information?
- Legal information e are patents in force or not?
- Do you want to avoid infringing third parties' patents?
- Do you want to enforce your own?
- Do you want to extract commercially relevant information?
- Who are your competitors?
- What are they doing?
- Who are the most prolific inventors?
- The most active applicants?
- Where are the technological hot spots?
- What information do others need?

thank
you



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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry
Government of India.*