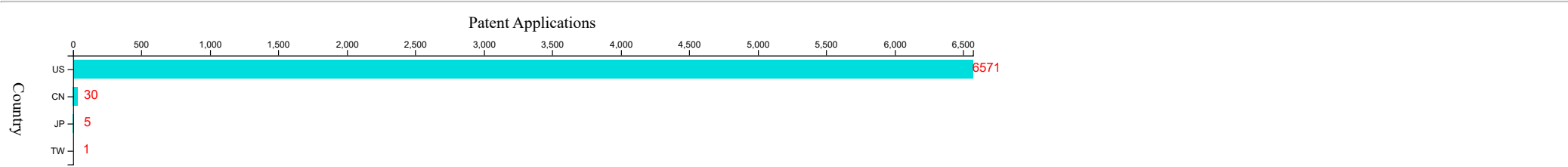
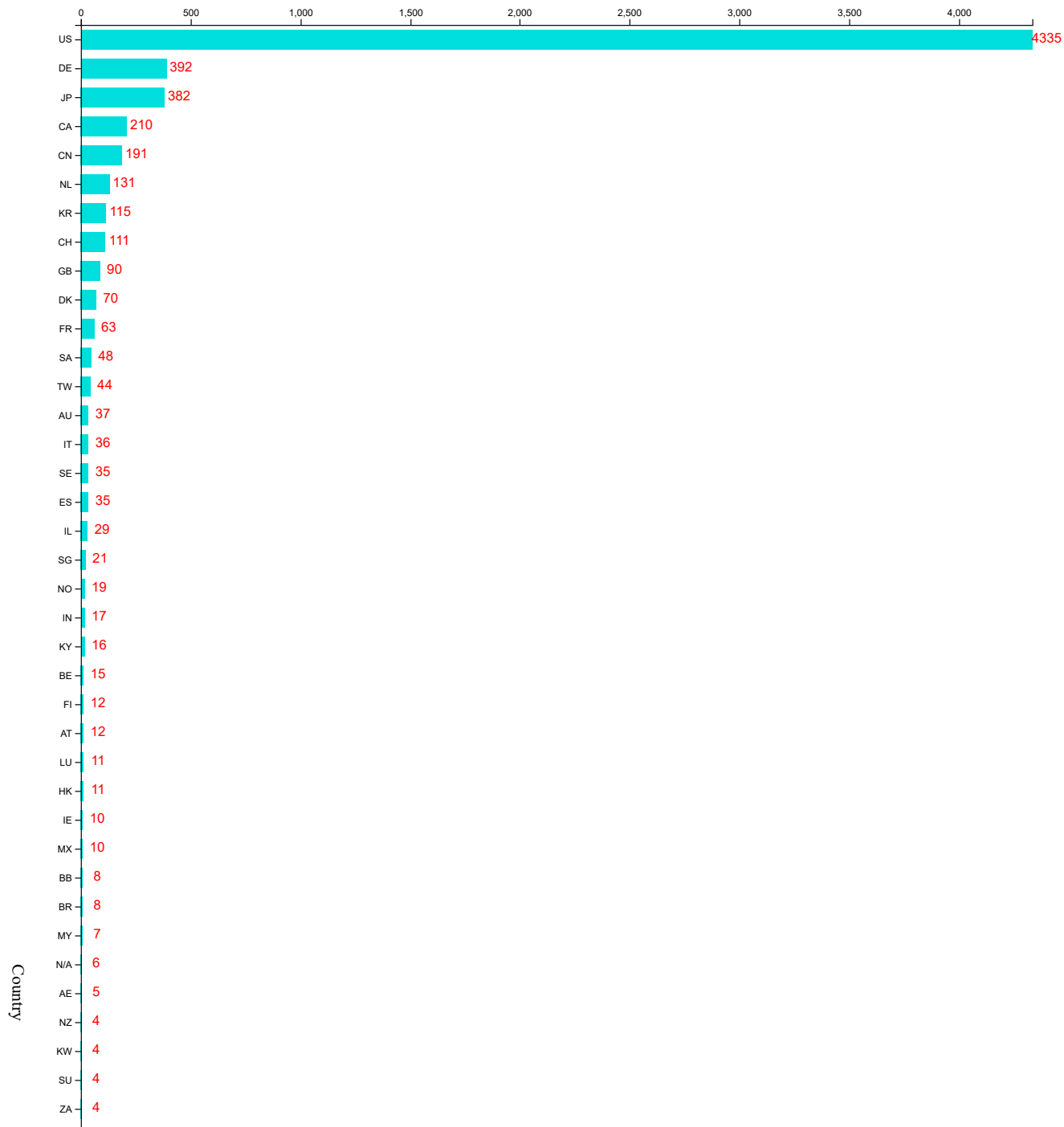


Patent Amount Patent Amount by Country
Patent Database : ALL
Data : Issue Date/Publication Date
Select years from : 1976~2025



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US	6571	4946	0.75
CN	30	33	1.10
JP	5	5	1.00
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Patent Applications



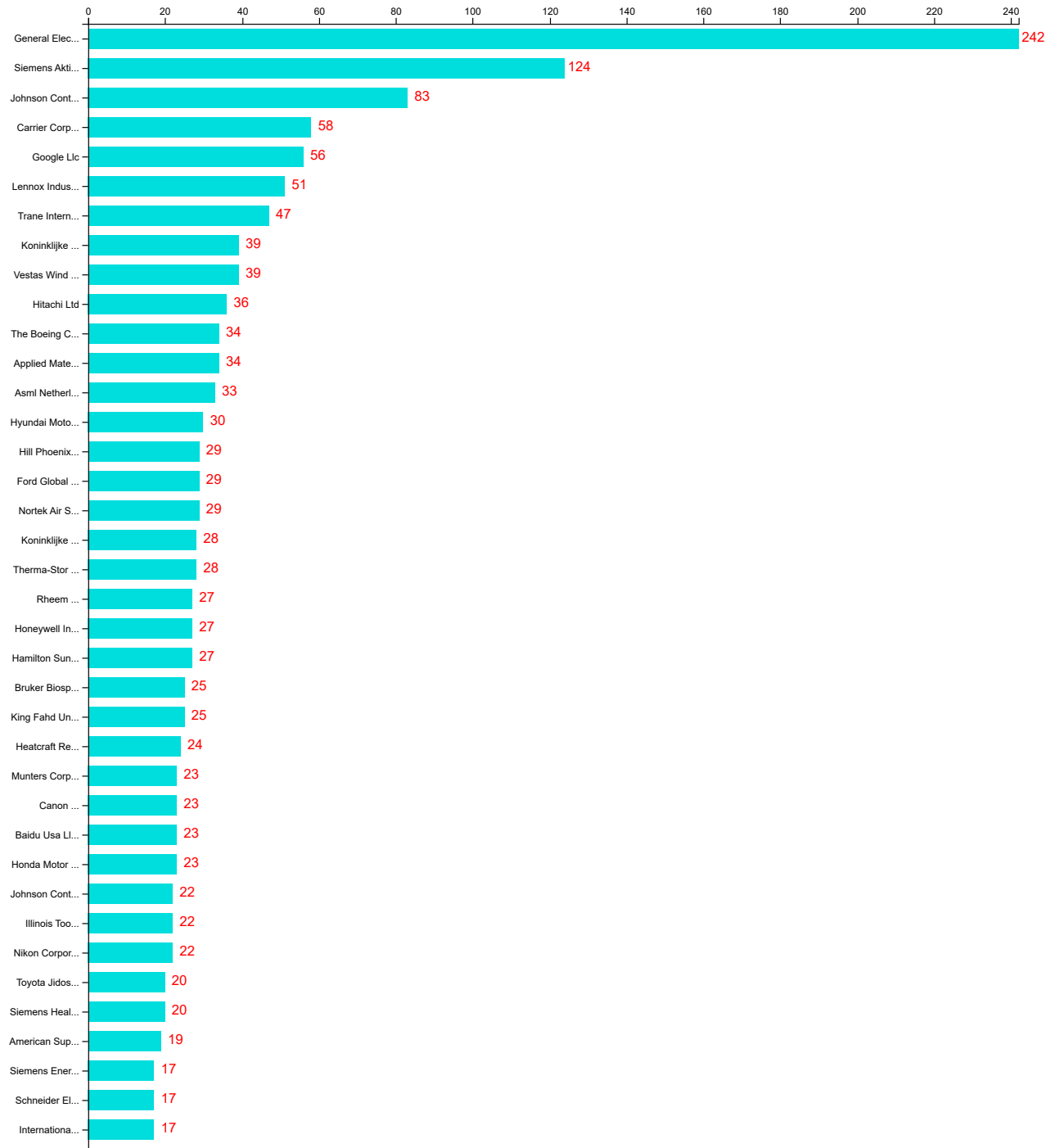
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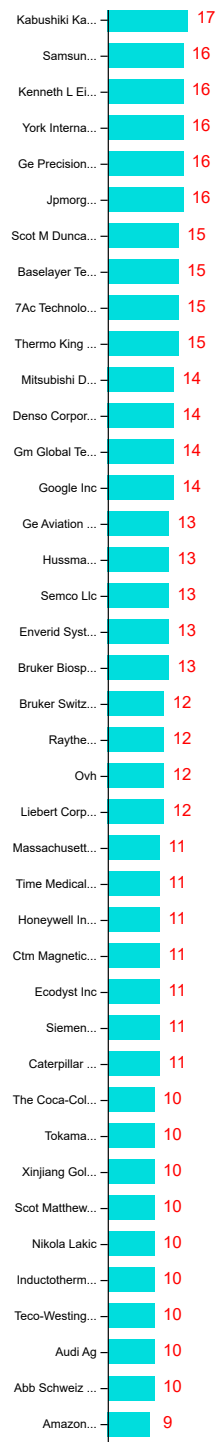
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JP	382	437	1.14
CA	210	254	1.21
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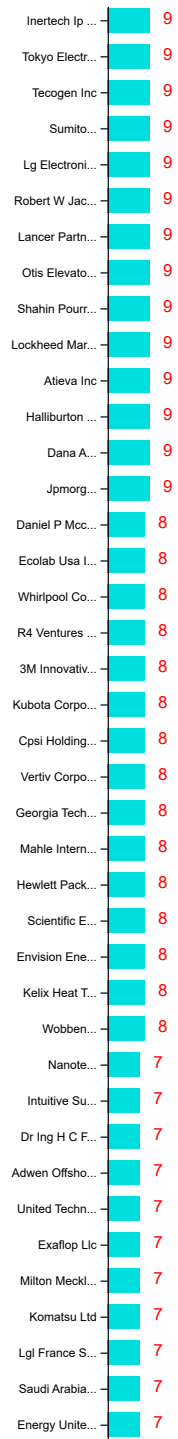
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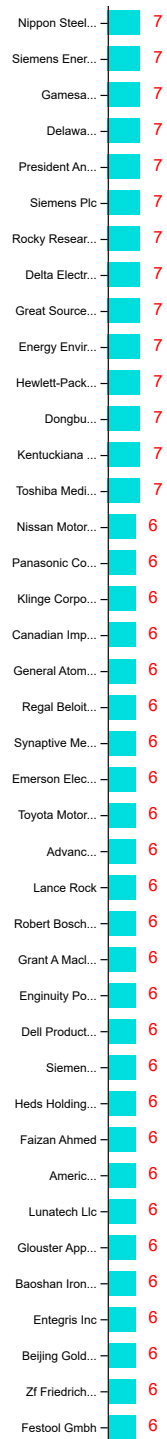
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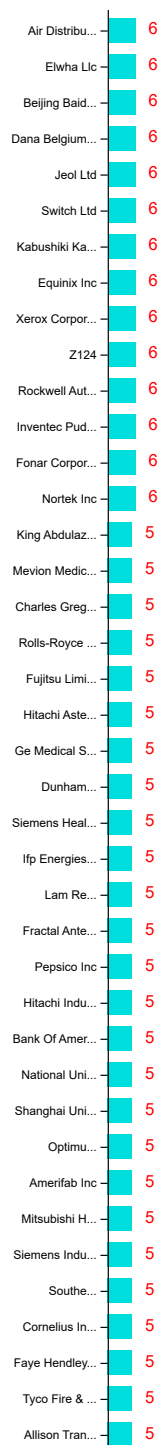
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Zhongw...	2
Sun Drum Sol...	2
Rodney...	2
Makoto Harad...	2
Magnet-Physi...	2
Asm Technolo...	2
Gerstel Syst...	2
Svobatech Ag	2
Moshe ...	2
Bank Of Amer...	2
E T L Corpor...	2
Thadde...	2
The Babcock ...	2
Jpmorg...	2
Ald Vacuum T...	2
Prince...	2
Nirvana Ener...	2
Morton Curti...	2
Rae Corporat...	2
Nortek Globa...	2
Aeroclave LI...	2
National Oil...	2
Mjc Inc	2
Steve Kapaun	2
Duxion Motor...	2
Bertrand Mic...	2
Mobile Clima...	2
A T C T Adva...	2
Energy Desig...	2
Khalifa Univ...	2
Gpm Inc	2
Mazda Motor ...	2
Maryam Tolou...	2
Edward Handy	2
Rahi Systems...	2
Wuhan Univer...	2
Otward...	2
Atmosp...	2
John Blair	2
Langenstein ...	2

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Prime Datum ...	2
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Sunamp Limit...	2
Shanghai Jou...	2
Western Indu...	2
Quattro Dyna...	2
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Huawei Digit...	2
Sonic Blue A...	2
Justin Schae...	2
Activetainme...	2
Shimadzu Cor...	2
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Smithkline B...	2
Chart Inc	2
Better Boati...	2
Desert Aire ...	2
Oliver Marku...	2
Chengdu Yiji...	2
Faurecia Emi...	2
Global Water...	2
Supercooler ...	2
Bruce ...	2
Northeastern...	2
Itherm Techn...	2
Scalematrix	2
Framo Engine...	2
Wireless Adv...	2
Michael Andr...	2
Robert E Mar...	2
Coil Researc...	2
University O...	2
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Resody...	2
Charles J Cr...	1

Jen K Chen	1
Sms-Sc...	1
Secor Inc	1
James E Dayt...	1
Christoperh ...	1
Ram Dy...	1
Honeywell In...	1
Kyusik Kim	1
Seiichi Kuro...	1
Stanley W Ti...	1
Jpmorg...	1
Allied-Signa...	1
Ruben Espino...	1
George S Bro...	1
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Martin Marie...	1
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Michael A Mi...	1
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Kiyohachi Ta...	1
Santa Barbar...	1
Peter Y M Pa...	1
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Carlos A Dos...	1
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Qualitrol Co...	1
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Joseph V Val...	1
Wolfgang Mul...	1
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Young T Choi	1
Austin Ameri...	1
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Govern...	1
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Philip Totar...	1
Phenix Heat ...	1
Louis E Alex...	1
Blue Ice Hol...	1
Croudace Hol...	1
United State...	1
Peter Weil	1
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Bb&g Environ...	1
Lordan & Co ...	1
Hyeong G Lee	1
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John Hondula...	1
Allan Shaw	1
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Danny ...	1
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Rolf Bommer	1
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Emerson Elec...	1
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Delphia Inte...	1
Louis C Defa...	1
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Mitsuba Corp...	1
Conserve Inc...	1
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Brunner Engi...	1
William G Li...	1
Nishiyodo Ai...	1
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Emhart Inc	1
Fried Krupp ...	1
Larry S Jame...	1
Overland Ene...	1
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John F Rayfi...	1
Carsten I Jo...	1
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Mark N Worth...	1
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Vaclav Feres	1
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Richard F Ho...	1
浙江芯科半导...	1
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Chase Brass ...	1
Pnc Bank Nat...	1
Aaf-Mcquay I...	1
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Noranda Inc	1
Thermo Finni...	1
Xenco Inc	1
Citicorp Ind...	1
Electro-Ther...	1
Sloan Purge ...	1
Heatcraft In...	1
Eugene A Jac...	1
Charles B Re...	1
Ecosol Ltd	1
Stanley W Fa...	1
Rudolph Rust	1
广东电网有限...	1
Aerco Intern...	1
Julio Texido...	1
Brown Boveri...	1
Hoechst Akti...	1
Cyril O Ston...	1
Ratko Spasoj...	1
Matthey Rust...	1
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Fedco ...	1
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FI Aerospace...	1

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James C Tayl...	1
Philip Tashm...	1
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Robert J Hep...	1
Abb 股份有...	1
James ...	1
Hugh T Reed	1
Friedrich Kn...	1
Elektroschme...	1
湖州长源家具...	1
A b b 股份有...	1
Boliden Akti...	1
John H Rhoad	1
Swiss Metalw...	1
Rudolf O Ive...	1
Bechtel Grou...	1
Amana Refrig...	1
Claude...	1
George C Jef...	1
Davy-L...	1
Joseph...	1
Robert Teuda...	1
Fluorinnovat...	1
Air+ Inc	1
Global Integ...	1
Beijing E-To...	1
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Jeff Johnson	1
Zero Nox Inc	1
Heritage Env...	1

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William R Pa...	1
Jack Mayhue	1
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Chevro...	1
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Curry Donald...	1
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White Engine...	1
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Stephen J Le...	1
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Flakt Aktieb...	1
Amcor Ltd	1
Larry A Rodr...	1
Servo Techno...	1
Max F Anders...	1
Encon Intern...	1
Csepel Metal...	1
Colorado Fue...	1
Sumner...	1
Kienzle Appa...	1
William B Hu...	1
Raymon...	1
David A Mcki...	1
Russ F Ruffo...	1
淄博助友石油...	1
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Congress Fin...	1
Maurice E La...	1
Standex Inte...	1
Howard R Ber...	1
Raymond D"a...	1
Booth Inc	1
Jack L Voinc...	1
Barclays Ban...	1
Alps Electri...	1
Bbc Aktienge...	1
Mark L Welke...	1

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Titu R Docto...	1
James E Cox	1
Rockwell Int...	1
Kawasaki Ste...	1
Bay Voltex C...	1
Sweet Victor...	1
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Mestek Machi...	1
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James B Mart...	1
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Quadrex Hps ...	1
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Cleveland F...	1
Donald L Joh...	1
James D Melt...	1
Arthur J Mir...	1
First Nation...	1
Larry W Bing...	1
Emhart Indus...	1
上海江南轧辊...	1
Board Of Reg...	1
Kenneth L Au...	1
Ronald L Str...	1
Bruce E Bolt...	1
Vaponics Inc	1
西安西电变压...	1
World Energy...	1
Eaton Corpor...	1
江苏效玄机电...	1
James Parro	1
Alfred Sulko...	1
Ppt Pyrolyse...	1

Thermal Ener...	1
Addison Prod...	1
Hans Haasis ...	1
Eric P St Jo...	1
Nalco/ Exxon...	1
Harry I Leon	1
Stanley Barb...	1
Alcatel Usa ...	1
Dow Ch...	1
Building Fac...	1
Joel Harband	1
Oremus Dorot...	1
Micafil Vaku...	1
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Alan G Holme...	1
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Transformato...	1
Ltv Steel Co...	1
Allied Corpo...	1
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Russell Coil...	1
Alden I Mcfa...	1
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Johnson Serv...	1
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Frigomat S A...	1
Thomas A Gil...	1
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William F Ed...	1
Alexander Pi...	1
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Bitmain Tech...	1
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Jfr Enterpri...	1
Silicon Grap...	1
John K Grisl...	1
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Powercold Co...	1
Hitachi Cons...	1

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Steve Parker	1
Thomson-Csf	1
HalDEX Midla...	1
Mtech Labora...	1
Keith E Well...	1
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Hughes Elect...	1
Ztek Corpora...	1
Business Dev...	1
Natvar Holdi...	1
Maximicer Ve...	1
Robert...	1
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Frank K Carp...	1
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Eric Walter ...	1
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Donald E Lar...	1
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Guy T Triesk...	1
Thermal Spra...	1
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Derek A Coff...	1
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Ice Energy I...	1
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Judith Phill...	1
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Hamilton Sun...	1
Capitalsourc...	1
Louis A Morg...	1
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Scratch Off ...	1
Rueben Talis...	1
Leica Micros...	1
John G Bowen	1
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Roberto A Co...	1
Evapco Inter...	1
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Korea Electr...	1
Bristol Comp...	1
Edge Technol...	1
Trox Usa Inc	1
Tyler Refrig...	1
Csa Engineer...	1
Altech Contr...	1
Mark Turcott...	1
Mirae Corpor...	1
Medcool Inc	1
Omega Credit...	1
Endocare Inc	1
Qortek Inc	1
Emf Th...	1
James ...	1
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Ballard Powe...	1
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Chief Of Nav...	1
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Ho Hsin Wu	1
Marine Desal...	1
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Winston Mack...	1
Aaon Inc	1
Stridsberg L...	1
Airborne Con...	1
Jimmy C Gray	1
Brian C Jone...	1
Xdx Inc	1
G D Searle &...	1
John C Fisch...	1
Bp Explorati...	1
Chaney Linda...	1
L-3 Co...	1
Lancer Partn...	1
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Intelligent ...	1
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Fuji Photo F...	1
Daniel J Bir...	1
Seagate Tech...	1
America Supe...	1
R E Phelon C...	1
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Lynntech Inc	1
Stuart Peter...	1
Paul Mansfie...	1
Chin-Sheng K...	1
Energy Contr...	1
Conocophilli...	1
Christine J ...	1
Applies Mate...	1
Serge Dubé	1
Air Handling...	1
Imi Corneliu...	1
Jay K Hertli...	1
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Leon S...	1
Donald C Eri...	1
David B Lee	1
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Jack L Ainsw...	1
Salvador Tru...	1
Roger Pruitt	1
Maxie C Davi...	1
Air Motion S...	1
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Cofield Whee...	1
James McCart...	1
Douglas Scie...	1
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Giles Enterp...	1
Applied Mate...	1
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Venturedyne ...	1
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Klaus Weigel...	1
Joseph R Tip...	1
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Oven S...	1
Thayer Danie...	1

Robert C Ric...	1
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Sagar Christ...	1
Hakan Ingvas...	1
C + M Interp...	1
Forrest Poln...	1
Larry C Simp...	1
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Raythe...	1
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Arthur Samue...	1
Kennet...	1
Ctb Inc	1
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Promethee	1
James P Von ...	1
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Omega Critic...	1
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Beckman Inst...	1
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Ray Vallejo	1
Currise & Ca...	1
Kirk Russell...	1
Kawasaki Ste...	1
Froezert Usa...	1
John C...	1
Anthony H Zi...	1

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Clark Steven...	1
Ecomotors In...	1
Speedline Te...	1
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China Petrol...	1
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Daniel Reich	1
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Gersho...	1
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Westin...	1
Golden Empir...	1
Marin Tek In...	1
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Armstrong In...	1
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National Ins...	1
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Micron Elect...	1
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Hjamilton Su...	1
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David A Fry	1
Andritz-Pate...	1

Yuan Robert ...	1
Khosla Ventu...	1
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Charles R Ko...	1
Edward...	1
Turbodyne Te...	1
Philip A Ort...	1
Robert P Bia...	1
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Mark S Mcooy	1
Advanc...	1
Ben M Enis	1
Carl John Fi...	1
The Trustees...	1
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Jason A Sull...	1
Michael L Ri...	1
Rene Grandi	1
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Watergard In...	1
Daniel A Gra...	1
Renee M Hall	1
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Frederick Ge...	1
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Sumitomo Wir...	1
John J Imre	1
John Bean Te...	1
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Advanced Bio...	1
Whirlpool Co...	1

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Regal-Beloit...	1
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Nikon Precis...	1
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Martin Marie...	1
Hitachi Medi...	1
Ohio State U...	1
Big Shoulder...	1
Micro Contro...	1
Hollingford ...	1
Surfac...	1
Henry A Wils...	1
Nrg Industri...	1
Richard C Bo...	1
Climatecraft...	1
Advanc...	1
Sydney J Bec...	1
Skf Textilma...	1
Robert K Cle...	1
Joseph Ferro...	1
Robert L Hol...	1
Wallace Heat...	1
E I Du Pont ...	1
Dci Investme...	1
Albert Brian...	1
Jeremy...	1
Fichtel & Sa...	1
Alfonso Di M...	1
Furuka...	1
Minnesota Mi...	1
Camp-Ice Inc	1
Turbine Air ...	1
Cirrus Logic...	1
John Daniel ...	1
Beijing Wave ...	1
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A P Systems ...	1
Delphi Techn...	1

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Harold Ray L...	1
Donald C Lew...	1
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Thomas Middl...	1
Michel A Gre...	1
Dan P McCart...	1
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John D Sims	1
Stephen Patr...	1
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Ernest F Bye...	1
Robert Aylor	1
Pandur...	1
Daido Metal ...	1
Tamiras Per ...	1
Clive Lewis	1
John E Kidwe...	1
Mehmet Arik	1
Siemens Akti...	1
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Tekni-Plex I...	1
Johnson Colt...	1
Petro-...	1
Timothy Barn...	1
Ben Enis	1
Specific Cli...	1
Anthony Shar...	1
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Konrad...	1
George Vicze...	1

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John Alexand...	1
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Fluxtrol Inc	1
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Patentee	Patent application Average 2.38	Proportion of patent applications
Total	6607	100%
General Electric Company	242	3.66%
Siemens Aktiengesellschaft	124	1.88%
Johnson Controls Technology Company	83	1.26%
Carrier Corporation	58	0.88%
Google Llc	56	0.85%
Lennox Industries Inc	51	0.77%
Trane International Inc	47	0.71%
Koninklijke Philips N V	39	0.59%
Vestas Wind Systems A/s	39	0.59%
Hitachi Ltd	36	0.55%
The Boeing Company	34	0.52%
Applied Materials Inc	34	0.52%
Asml Netherlands B V	33	0.5%
Hyundai Motor Company	30	0.45%
Hill Phoenix Inc	29	0.44%
Ford Global Technologies Llc	29	0.44%
Nortek Air Solutions Canada Inc	29	0.44%
Koninklijke Philips Electronics N V	28	0.42%
Therma-Stor Llc	28	0.42%

Rheem Manufacturing Company	27	0.41%
Honeywell International Inc	27	0.41%
Hamilton Sundstrand Corporation	27	0.41%
Bruker Biospin Ag	25	0.38%
King Fahd University Of Petroleum And Minerals	25	0.38%
Heatcraft Refrigeration Products Llc	24	0.36%
Munters Corporation	23	0.35%
Canon Kabushiki Kaisha	23	0.35%
Baidu Usa Llc	23	0.35%
Honda Motor Co Ltd	23	0.35%
Johnson Controls Tyco Ip Holdings Llp	22	0.33%
Illinois Tool Works Inc	22	0.33%
Nikon Corporation	22	0.33%
Toyota Jidosha Kabushiki Kaisha	20	0.3%
Siemens Healthcare Gmbh	20	0.3%
American Superconductor Corporation	19	0.29%
Siemens Energy Inc	17	0.26%
Schneider Electric It Corporation	17	0.26%
International Business Machines Corporation	17	0.26%
Kabushiki Kaisha Toshiba	17	0.26%
Samsung Electronics Co Ltd	16	0.24%
Kenneth L Eiermann	16	0.24%
York International Corporation	16	0.24%
Ge Precision Healthcare Llc	16	0.24%
Jpmorgan Chase Bank N A As Collateral Agent	16	0.24%
Scot M Duncan	15	0.23%
Baselayer Technology Llc	15	0.23%
7Ac Technologies Inc	15	0.23%
Thermo King Corporation	15	0.23%
Mitsubishi Denki Kabushiki Kaisha	14	0.21%
Denso Corporation	14	0.21%
Gm Global Technology Operations Llc	14	0.21%
Google Inc	14	0.21%
Ge Aviation Systems Llc	13	0.2%
Husmann Corporation	13	0.2%
Semco Llc	13	0.2%
Enverid Systems Inc	13	0.2%
Bruker Biospin Gmbh	13	0.2%
Bruker Switzerland Ag	12	0.18%
Raytheon Company	12	0.18%
Ovh	12	0.18%
Liebert Corporation	12	0.18%
Massachusetts Institute Of Technology	11	0.17%
Time Medical Holdings Company Limited	11	0.17%
Honeywell Inc	11	0.17%

Ctm Magnetics Inc	11	0.17%
Ecodyst Inc	11	0.17%
Siemens Gamesa Renewable Energy A/s	11	0.17%
Caterpillar Inc	11	0.17%
The Coca-Cola Company	10	0.15%
Tokamak Energy Ltd	10	0.15%
Xinjiang Goldwind Science & Technology Co Ltd	10	0.15%
Scot Matthew Duncan	10	0.15%
Nikola Lakic	10	0.15%
Inductotherm Corp	10	0.15%
Teco-Westinghouse Motor Company	10	0.15%
Audi Ag	10	0.15%
Abb Schweiz Ag	10	0.15%
Amazon Technologies Inc	9	0.14%
Inertech Ip Llc	9	0.14%
Tokyo Electron Limited	9	0.14%
Tecogen Inc	9	0.14%
Sumitomo Heavy Industries Ltd	9	0.14%
Lg Electronics Inc	9	0.14%
Robert W Jacobi	9	0.14%
Lancer Partnership Ltd	9	0.14%
Otis Elevator Company	9	0.14%
Shahin Pourrahi	9	0.14%
Lockheed Martin Corporation	9	0.14%
Atieva Inc	9	0.14%
Halliburton Energy Services Inc	9	0.14%
Dana Automotive Systems Group Llc	9	0.14%
Jpmorgan Chase Bank N A As Administrative Agent	9	0.14%
Daniel P Mccarty	8	0.12%
Ecolab Usa Inc	8	0.12%
Whirlpool Corporation	8	0.12%
R4 Ventures Llc	8	0.12%
3M Innovative Properties Company	8	0.12%
Kubota Corporation	8	0.12%
Cpsi Holdings Llc	8	0.12%
Vertiv Corporation	8	0.12%
Georgia Tech Research Corporation	8	0.12%
Mahle International Gmbh	8	0.12%
Hewlett Packard Enterprise Development Lp	8	0.12%
Scientific Environmental Design Inc	8	0.12%
Envision Energy Denmark Aps	8	0.12%
Kelix Heat Transfer Systems Llc	8	0.12%
Wobben Properties Gmbh	8	0.12%
Nanotech Energy Inc	7	0.11%
Intuitive Surgical Operations Inc	7	0.11%
Dr Ing H C F Porsche Aktiengesellschaft	7	0.11%
Adwen Offshore S L	7	0.11%
United Technologies Corporation	7	0.11%
Exaflop Llc	7	0.11%

Milton Meckler	7	0.11%
Komatsu Ltd	7	0.11%
Lgl France S A S	7	0.11%
Saudi Arabian Oil Company	7	0.11%
Energy United States Department Of	7	0.11%
Nippon Steel Corporation	7	0.11%
Siemens Energy Global Gmbh & Co Kg	7	0.11%
Gamesa Innovation & Technology S L	7	0.11%
Delaware Capital Formation Inc	7	0.11%
President And Fellows Of Harvard College	7	0.11%
Siemens Plc	7	0.11%
Rocky Research	7	0.11%
Delta Electronics Inc	7	0.11%
Great Source Innovations Llc	7	0.11%
Energy Environmental Corporation	7	0.11%
Hewlett-Packard Development Company L P	7	0.11%
Dongbu Daewoo Electronics Corporation	7	0.11%
Kentuckiana Curb Company Inc	7	0.11%
Toshiba Medical Systems Corporation	7	0.11%
Nissan Motor Co Ltd	6	0.09%
Panasonic Corporation	6	0.09%
Klinge Corporation	6	0.09%
Canadian Imperial Bank Of Commerce	6	0.09%
General Atomics	6	0.09%
Regal Beloit America Inc	6	0.09%
Synaptive Medical Barbados Inc	6	0.09%
Emerson Electric Co	6	0.09%
Toyota Motor Engineering & Manufacturing North America Inc	6	0.09%
Advanced Imaging Research Inc	6	0.09%
Lance Rock	6	0.09%
Robert Bosch Gmbh	6	0.09%
Grant A MacLennan	6	0.09%
Enginuity Power Systems Inc	6	0.09%
Dell Products L P	6	0.09%
Siemens Magnet Technology Ltd	6	0.09%
Heds Holdings Llc	6	0.09%
Faizan Ahmed	6	0.09%
American Power Conversion Corporation	6	0.09%
Lunatech Llc	6	0.09%
Glouster Applications L L C	6	0.09%
Baoshan Iron & Steel Co Ltd	6	0.09%
Entegris Inc	6	0.09%
Beijing Goldwind Science & Creation Windpower Equipment Co Ltd	6	0.09%
Zf Friedrichshafen Ag	6	0.09%
Festool Gmbh	6	0.09%
Air Distribution Technologies Ip Llc	6	0.09%
Elwha Llc	6	0.09%
Beijing Baidu Netcom Science And Technology Co Ltd	6	0.09%
Dana Belgium N V	6	0.09%

Jeol Ltd	6	0.09%
Switch Ltd	6	0.09%
Kabushiki Kaisha Yaskawa Denki	6	0.09%
Equinix Inc	6	0.09%
Xerox Corporation	6	0.09%
Z124	6	0.09%
Rockwell Automation Technologies Inc	6	0.09%
Inventec Pudong Technology Corporation	6	0.09%
Fonar Corporation	6	0.09%
Nortek Inc	6	0.09%
King Abdulaziz University	5	0.08%
Mevion Medical Systems Inc	5	0.08%
Charles Gregory	5	0.08%
Rolls-Royce Deutschland Ltd & Co Kg	5	0.08%
Fujitsu Limited	5	0.08%
Hitachi Astemo Ltd	5	0.08%
Ge Medical Systems Global Technology Company Llc	5	0.08%
Dunham-Bush Inc	5	0.08%
Siemens Healthcare Limited	5	0.08%
Ifp Energies Nouvelles	5	0.08%
Lam Research Corporation	5	0.08%
Fractal Antenna Systems Inc	5	0.08%
Pepsico Inc	5	0.08%
Hitachi Industrial Equipment Systems Co Ltd	5	0.08%
Bank Of America N A As The Successor Collateral Agent	5	0.08%
National University Of Singapore	5	0.08%
Shanghai United Imaging Healthcare Co Ltd	5	0.08%
Optimum Energy Llc	5	0.08%
Amerifab Inc	5	0.08%
Mitsubishi Heavy Industries Ltd	5	0.08%
Siemens Industry Inc	5	0.08%
Southern Company	5	0.08%
Cornelius Inc	5	0.08%
Faye Hendley Elgart	5	0.08%
Tyco Fire & Security Gmbh	5	0.08%
Allison Transmission Inc	5	0.08%
Robert J Mowris	5	0.08%
American Standard International Inc	5	0.08%
Element Partners Ii L P	5	0.08%
Yahoo! Inc	5	0.08%
Flo Energy Solutions Inc	5	0.08%
Richard H Alsenz	5	0.08%
Westinghouse Electric Corporation	5	0.08%
Ft Energy Controls Llc	5	0.08%
Tenaris Coiled Tubes Llc	5	0.08%
Allied Air Enterprises Llc	5	0.08%
Duke Manufacturing Co	5	0.08%
Goodrich Corporation	5	0.08%
Hitachi Energy Switzerland Ag	5	0.08%

Westinghouse Electric Corp	5	0.08%
Greenhouse Hvac Llc	5	0.08%
Dana Tm4 Inc	5	0.08%
Fca Us Llc	5	0.08%
Energy Cloud Inc	5	0.08%
Spx Cooling Technologies Inc	5	0.08%
Kraftwerk Union Aktiengesellschaft	5	0.08%
Novelair Technologies L L C	5	0.08%
Jfeスチール株式会社	5	0.08%
Serge Dube	5	0.08%
Randy Prohaska	5	0.08%
Doosan Heavy Industries & Construction Co Ltd	5	0.08%
Marcos Vielma	5	0.08%
Baltimore Aircoil Company Inc	5	0.08%
Linde Aktiengesellschaft	5	0.08%
David Sandelman	5	0.08%
United States Department Of Energy	5	0.08%
Zoll Circulation Inc	5	0.08%
Magnix Technologies Pty Ltd	5	0.08%
Ronald Harrison Patch	4	0.06%
Board Of Regents The University Of Texas System	4	0.06%
S&t Mfg Co	4	0.06%
Alisea S R L	4	0.06%
Davis Energy Group Inc	4	0.06%
Isolate Inc	4	0.06%
Ihi Corporation	4	0.06%
The Renewable Snowmaking Company	4	0.06%
Schaeffler Technologies Ag & Co Kg	4	0.06%
Silicon Valley Bank	4	0.06%
Raytheon Technologies Corporation	4	0.06%
Emerson Climate Technologies Inc	4	0.06%
Hyundai Mobis Co Ltd	4	0.06%
Subaru Corporation	4	0.06%
Res Usa Llc	4	0.06%
Alliance For Sustainable Energy Llc	4	0.06%
Viewray Technologies Inc	4	0.06%
Selman And Associates Ltd	4	0.06%
Vert Com Inc	4	0.06%
Arkival Technology Corp	4	0.06%
Schneider Electric Buildings Llc	4	0.06%
Consolidated Energy Solutions Inc	4	0.06%
Sanuvox Technologies	4	0.06%
Novelis Inc	4	0.06%
Stulz Air Technology Systems Inc	4	0.06%
Joseph A Ross	4	0.06%
Charles Martin Chavez Madson	4	0.06%
Xdx Global Llc	4	0.06%
Javier Carlos Velloso Mohedano	4	0.06%
Villara Corporation	4	0.06%

Digital Porpoise Llc	4	0.06%
Sma Solar Technology Ag	4	0.06%
Brainsway Ltd	4	0.06%
Electrolux Do Brasil S A	4	0.06%
Synaptive Medical Inc	4	0.06%
Vetco Gray Scandinavia As	4	0.06%
Flowserve Management Company	4	0.06%
Dalian University Of Technology	4	0.06%
Oerlikon Surface Solutions Ag Pfäffikon	4	0.06%
Javier Ripoll	4	0.06%
Institute Of Electrical Engineering Chinese Academy Of Sciences	4	0.06%
Mitsubishi Electric Us Inc	4	0.06%
Cambridge Engineering Inc	4	0.06%
Hypertherm Inc	4	0.06%
Coca-Cola Company The	4	0.06%
Asml Holding N V	4	0.06%
Echogen Power Systems Llc	4	0.06%
Enginuity Power Systems	4	0.06%
Zeltiq Aesthetics Inc	4	0.06%
Morgan Stanley Senior Funding Inc	4	0.06%
Magnetic Applications Inc	4	0.06%
Exxonmobil Chemical Patents Inc	4	0.06%
Taiwan Semiconductor Manufacturing Co Ltd	4	0.06%
Supernova Tek Llc	4	0.06%
Fidus Investment Corporation	4	0.06%
Jpl Investments Llc	4	0.06%
Arcelormittal	4	0.06%
Temper Ip Llc	4	0.06%
Anesthetic Gas Reclamation Llc	4	0.06%
James Wiese	4	0.06%
Cassantec Ag	4	0.06%
Fujifilm Corporation	4	0.06%
Asm Ip Holding B V	4	0.06%
Fresh Chill Solutions Inc	4	0.06%
Agilent Technologies Inc	4	0.06%
Abb Technology Ag	4	0.06%
Electric Power Research Institute Inc	4	0.06%
The Bank Of New York Mellon Trust Company N A As Notes Collateral Agent	4	0.06%
Borgwarner Inc	4	0.06%
Addison Hvac Llc	4	0.06%
Best Technologies Inc	4	0.06%
Anvil Technologies Llc	4	0.06%
E-Traction Europe B V	4	0.06%
Boeing Company The	4	0.06%
Io Data Centers Llc	4	0.06%
Bose Corporation	4	0.06%
Frosty Cold Llc	4	0.06%
Blue Box Air Llc	4	0.06%
Texas Instruments Incorporated	4	0.06%

Uop Llc	4	0.06%
Aligned Energy Llc	4	0.06%
Belimo Holding Ag	4	0.06%
John Bean Technologies Corporation	4	0.06%
Sms Siemag Aktiengesellschaft	4	0.06%
Berkeley Lights Inc	4	0.06%
Geoflo Cooling Inc	4	0.06%
Hitachi Energy Ltd	4	0.06%
Microsoft Technology Licensing Llc	4	0.06%
Fresh Air Solutions L P A Pennsylvania Limited Partnership	4	0.06%
Asg Superconductors S P A	4	0.06%
David Meisel	4	0.06%
Cymer Inc	4	0.06%
James W Durham	4	0.06%
Bnp Paribas	3	0.05%
Caeli Llc	3	0.05%
Gary Lawrence Johnston	3	0.05%
Thomas F Yost	3	0.05%
Us Synthetic Corporation	3	0.05%
Semequip Inc	3	0.05%
True Manufacturing Co Inc	3	0.05%
Harvest Air Llc	3	0.05%
Steril-Aire Usa Inc	3	0.05%
Ice Bear Spv #1 Llc	3	0.05%
Volvo Car Corporation	3	0.05%
Siemens Gamesa Renewable Energy Innovation & Technology S L	3	0.05%
Alfa Laval Copenhagen A/s	3	0.05%
Novellus Systems Inc	3	0.05%
Laird Technologies Inc	3	0.05%
Battelle Energy Alliance Llc	3	0.05%
Posco	3	0.05%
Ene003 Llc	3	0.05%
Hobart Llc	3	0.05%
7142871 Canada Inc	3	0.05%
Tas Ltd	3	0.05%
Teco—Westinghouse Motor Company	3	0.05%
The Hong Kong University Of Science And Technology	3	0.05%
Kato Engineering Inc	3	0.05%
Mission Motor Company	3	0.05%
Ebara Corporation	3	0.05%
Dennis W O'donnell	3	0.05%
Wattsup Power A/s	3	0.05%
Fundacion Tecnalia Research & Innovation	3	0.05%
Fei Company	3	0.05%
Daikin Industries Ltd	3	0.05%
Nordyne Inc	3	0.05%
Intermolecular Inc	3	0.05%
Doty Scientific Inc	3	0.05%
Coldblock Technologies Inc	3	0.05%

Auburn University	3	0.05%
Varian Medical Systems Inc	3	0.05%
Infinity Physics Llc	3	0.05%
Flender Gmbh	3	0.05%
Amgen Inc	3	0.05%
Nooter/eriksen Inc	3	0.05%
Uniflair S P A	3	0.05%
Sooner B & B Inc	3	0.05%
Dresser-Rand Company	3	0.05%
Taiwan Semiconductor Manufacturing Company	3	0.05%
Airtex Manufacturing Partnership	3	0.05%
Tae Technologies Inc	3	0.05%
Schlumberger Technology Corporation	3	0.05%
Rtx Corporation	3	0.05%
Technip Energies France	3	0.05%
Aisin Seiki Kabushiki Kaisha	3	0.05%
John Chris Karamanos	3	0.05%
Global Plasma Solutions Inc	3	0.05%
Copeland Lp	3	0.05%
Mojave Energy Systems Inc	3	0.05%
Ati Properties Inc	3	0.05%
Windfin B V	3	0.05%
Aircuity Inc	3	0.05%
Frederic D Sewell	3	0.05%
Mb Financial Bank N A	3	0.05%
Abb Ab	3	0.05%
Richard W Trent	3	0.05%
Seiko Epson Corporation	3	0.05%
Fluid Management Systems Inc	3	0.05%
Varian Inc	3	0.05%
Shell Oil Company	3	0.05%
Fina Technology Inc	3	0.05%
Cornelius Beverage Technologies Limited	3	0.05%
Surendra Himatlal Shah	3	0.05%
Elkay Manufacturing Company	3	0.05%
Hector Delgadillo	3	0.05%
Refractory Intellectual Property Gmbh & Co Kg	3	0.05%
Polarean Imaging Ltd	3	0.05%
Fnx-Innov Inc	3	0.05%
Bnnt Llc	3	0.05%
Rolls-Royce North American Technologies Inc	3	0.05%
Fca Us Llc Formerly Known As Chrysler Group Llc	3	0.05%
Electro Industries Inc	3	0.05%
Liquidstack Holding B V	3	0.05%
Tom Ascough	3	0.05%
Outotec Oyj	3	0.05%
Praxair Technology Inc	3	0.05%
Ranco Incorporated Of Delaware	3	0.05%
Patriarch Partners Agency Services Llc	3	0.05%

Dover Systems Inc	3	0.05%
Sensormatic Electronics Llc	3	0.05%
Richard A Burger	3	0.05%
E-Polytech Mfg Sys Llc	3	0.05%
Cornelius Deutschland	3	0.05%
Ut-Battelle Llc	3	0.05%
Delphi Technologies Inc	3	0.05%
Dewgood Inc	3	0.05%
Ksm Inc	3	0.05%
Lennox Industries Llc	3	0.05%
Super S E E R Systems Inc	3	0.05%
Nortek Air Solutions Llc	3	0.05%
Beckhoff Automation Gmbh	3	0.05%
Cgc Group Of Companies Incorporated	3	0.05%
Arizona Board Of Regents On Behalf Of Arizona State University	3	0.05%
Xianrui Huang	3	0.05%
Aes Engineering Ltd	3	0.05%
Eight Sleep Inc	3	0.05%
Water Generating Systems I Llc	3	0.05%
Bankers Trust Company	3	0.05%
Mitsubishi Electric Corporation	3	0.05%
U S Department Of Energy	3	0.05%
Bp Exploration Operating Company Limited	3	0.05%
Dai Nippon Printing Co Ltd	3	0.05%
Ambient Water Inc	3	0.05%
Bruker Ag	3	0.05%
Frank Fierro	3	0.05%
Hatco Corporation	3	0.05%
A/c Care Inc	3	0.05%
Council Of Scientific And Industrial Research	3	0.05%
Haier Us Appliance Solutions Inc	3	0.05%
Rolls-Royce Plc	3	0.05%
Coretronic Corporation	3	0.05%
Composite Cooling Solutions L P	3	0.05%
Integra Mission Critical Llc	3	0.05%
Brunswick Corporation	3	0.05%
Tsunami Products	3	0.05%
Carl Zeiss Microscopy Gmbh	3	0.05%
Mcnnac Energy Services Inc	3	0.05%
Mitsubishi Hitachi Power Systems Ltd	3	0.05%
M2M Imaging Corp	3	0.05%
Evapco Inc	3	0.05%
Manitowoc Foodservice Companies Inc	3	0.05%
Global Water Farms Corporation	3	0.05%
Beergo Inc	3	0.05%
Franz Haimer Maschinenbau Kg	3	0.05%
Nucor Corporation	3	0.05%
Geron Andre Bindseil	3	0.05%
Luis Carlos Gabino Barrera Ramirez	3	0.05%

Eaton Intelligent Power Limited	3	0.05%
Design Build Systems	3	0.05%
Volkswagen Aktiengesellschaft	3	0.05%
Abb Power Grids Switzerland Ag	3	0.05%
Magnus Metal Ltd	3	0.05%
Dynapert-Htc Corporation	3	0.05%
Sundyne Llc	3	0.05%
Fuji Electric Co Ltd	3	0.05%
Teledyne Isco Inc	3	0.05%
Spring Health Products Inc	3	0.05%
Ge-Hitachi Nuclear Energy Americas Llc	3	0.05%
Bronswerk Marine Inc	3	0.05%
George Lasker	3	0.05%
Silgan Containers Llc	3	0.05%
Geofurnace Development Inc	3	0.05%
Bmil Technologies	3	0.05%
Coolsystems Inc	2	0.03%
Bha Altair Llc	2	0.03%
Amse Windtec Gmbh	2	0.03%
Emitec Gesellschaft Fuer Emissionstechnologie Mbh	2	0.03%
Detrex Corporation	2	0.03%
Dean Murphy	2	0.03%
Abb Research Ltd	2	0.03%
Trak International Llc	2	0.03%
Donnelly Corporation	2	0.03%
Alpine Electronics Inc	2	0.03%
Michael Anthony	2	0.03%
Siemens Vai Metals Technologies Sas	2	0.03%
Dynamic Research Llc	2	0.03%
Lancer Corporation	2	0.03%
Laroche Industries Inc	2	0.03%
Powercold Technology Llc	2	0.03%
Harold E Stockton Jr	2	0.03%
Daisuke Nakashita	2	0.03%
Indigo Energy Inc	2	0.03%
Research Products Corporation	2	0.03%
Usa Technologies Inc	2	0.03%
Veeco Instruments Inc	2	0.03%
Ep Investments Inc Through Its Chapter 7 Trustee	2	0.03%
Omniteam Inc	2	0.03%
Ice Energy Holdings Inc	2	0.03%
Sunco Investments Limited	2	0.03%
Ali Alajimi	2	0.03%
Wen Zhang	2	0.03%
Magnetic-Electrostatic Confinement Mec Corporation	2	0.03%
Cooling Networks Llc	2	0.03%
Qualserv Holding Company	2	0.03%
Medtronic Inc	2	0.03%
Acma Limited	2	0.03%

Oerlikon Surface Solutions Ag Pfaffikon	2	0.03%
Pratt & Whitney Canada Corp	2	0.03%
Smiths Aerospace Llc	2	0.03%
Semitool Inc	2	0.03%
Gaudencio Aquino Labrador	2	0.03%
Byung-Chul Kim	2	0.03%
Samsung Sdi Co Ltd	2	0.03%
Steril-Aire U S A Inc	2	0.03%
Boston Scientific Scimed Inc	2	0.03%
Impulse Devices Inc	2	0.03%
Teledyne Instruments Inc	2	0.03%
Delphi International Operations Luxembourg S A R L	2	0.03%
Airfixture Llc	2	0.03%
Amos A Snow Iii	2	0.03%
Eric Dietschi	2	0.03%
Opto Generic Devices Inc	2	0.03%
Calvin Wade Wohlert	2	0.03%
Seg Automotive Germany Gmbh	2	0.03%
Life Sciences Alternative Funding Llc	2	0.03%
Sanyo Electric Co Ltd	2	0.03%
Sekisui Chemical Co Ltd	2	0.03%
The Texas A&m University System	2	0.03%
Charles Y Lafontaine	2	0.03%
Imv Corporation	2	0.03%
Alcatel-Lucent Usa Inc	2	0.03%
Mainstream Engineering Corp	2	0.03%
Chengjun Julian Chen	2	0.03%
Alsenz Innovations Inc	2	0.03%
Allanco Technologies Inc	2	0.03%
Gm Global Technology Operations Inc	2	0.03%
Mingsheng Liu	2	0.03%
Ebara Solar Inc	2	0.03%
Evangelos Laskaris	2	0.03%
Douglas Peter	2	0.03%
Hologic Inc	2	0.03%
Next Hydrogen Corporation	2	0.03%
Christopher W Gabrys	2	0.03%
Hood Technology Corporation	2	0.03%
Ray M Alden	2	0.03%
Abb Patent Gmbh	2	0.03%
Florida State University Research Foundation Inc	2	0.03%
Miller Price	2	0.03%
Robert Maruca	2	0.03%
Commissariat A L'energie Atomique Et Aux Energies Alternatives	2	0.03%
Lennox Manufacturing Inc	2	0.03%
Entanglement Technologies Llc	2	0.03%
Omnitemp Industries Inc	2	0.03%
Airwars Defense Lp	2	0.03%
Viatron Technologies Inc	2	0.03%

Iceotope Limited	2	0.03%
Stratasys Inc	2	0.03%
Damian R Ludwiczak	2	0.03%
Tom L Pierson	2	0.03%
Tata Steel Limited	2	0.03%
Sergey Pulnikov	2	0.03%
Global Palm Products Sdn Bhd	2	0.03%
Coil Control Llc	2	0.03%
Nissin Ion Equipment Co Ltd	2	0.03%
Princeton Optronics Inc	2	0.03%
Marathon Engine Systems Inc	2	0.03%
Mayo Foundation For Medical Education And Research	2	0.03%
Screen Holdings Co Ltd	2	0.03%
Albert Reid Wallace	2	0.03%
Ald Vacuum Technologies Gmbh	2	0.03%
Magcomp Ab	2	0.03%
Etel S A	2	0.03%
Airedale International Air Conditioning Ltd	2	0.03%
David Deng	2	0.03%
U S Philips Corporation	2	0.03%
Resolve Digital Health Inc	2	0.03%
Pulmostics Limited	2	0.03%
Advantage Engineering Incorporated	2	0.03%
Stone & Webster Engineering Corporation	2	0.03%
Nelumbo Inc	2	0.03%
Urecsys- Urban Ecology Systems- Indoor Air Quality Management Ltd	2	0.03%
James E Richardson	2	0.03%
Fuglesangs Subsea As	2	0.03%
Siemens Power Generation Inc	2	0.03%
Maham Sabbaghian	2	0.03%
Meckler Gershon 45%	2	0.03%
Continental Automotive Gmbh	2	0.03%
Daniel W Sonnek	2	0.03%
Hitachi Ltd A Corp Of Japan	2	0.03%
Atlas L C Heating & A/c	2	0.03%
Bernabe Romero	2	0.03%
Kevin Lee Friesth	2	0.03%
Almex Usa Inc	2	0.03%
Lordan & Co	2	0.03%
Leonid Goldstein	2	0.03%
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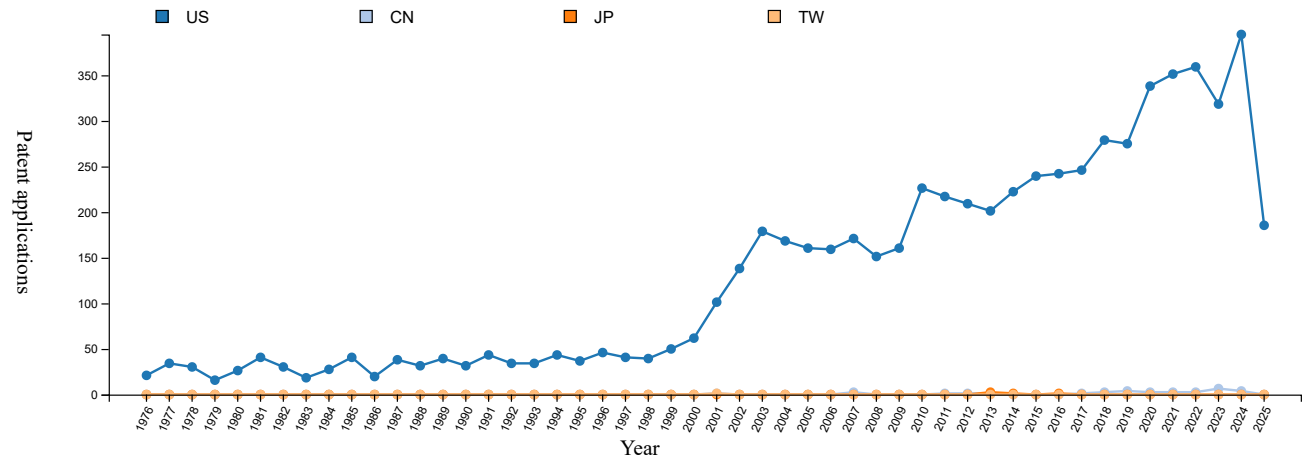
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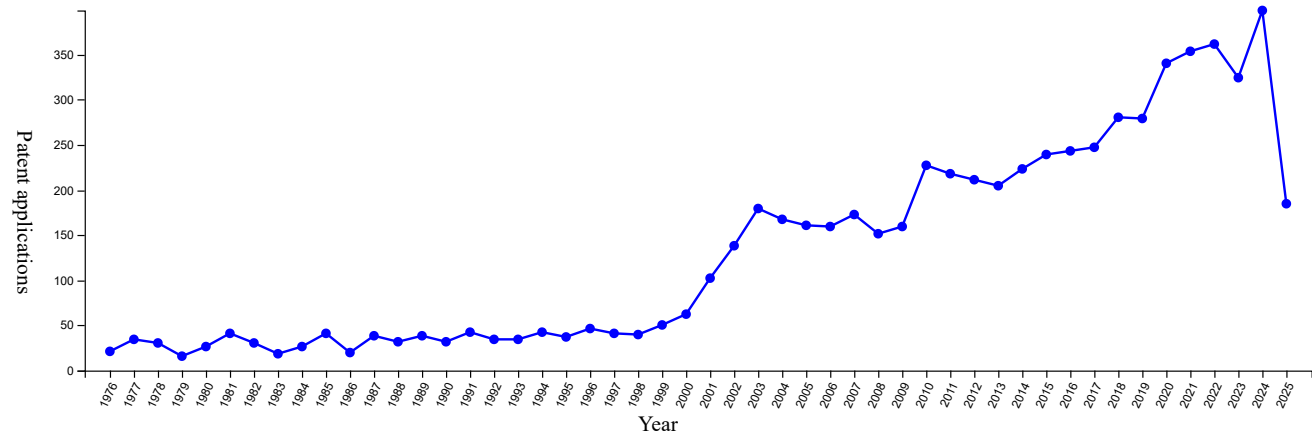
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Years
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Year	US	CN	JP	TW	Total
Total	6571	30	5	1	6607
2025	185	0	0	0	185
2024	395	4	0	0	399
2023	319	6	0	0	325
2022	359	3	0	0	362
2021	352	2	0	0	354
2020	338	2	0	0	340
2019	275	4	0	0	279
2018	279	2	0	0	281
2017	246	1	0	0	247

Years Patent Amount by Year
Patent Database : ALL
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Year	Patent applications	Proportion of patent applications
Total	6607	100.00 %
2025	185	3.00 %
2024	399	6.00 %
2023	325	5.00 %
2022	362	5.00 %
2021	354	5.00 %
2020	340	5.00 %
2019	279	4.00 %
2018	281	4.00 %
2017	247	4.00 %