

SourcePatentcloud's Due Diligence 2021-04-20



Patents in the Analysis Scope

There should be 64,937 applications from 27,764 families. In the current Analysis Scope, 64,937 applications were found, with 0 applications missing.

Applications

64,937

Families

27,764



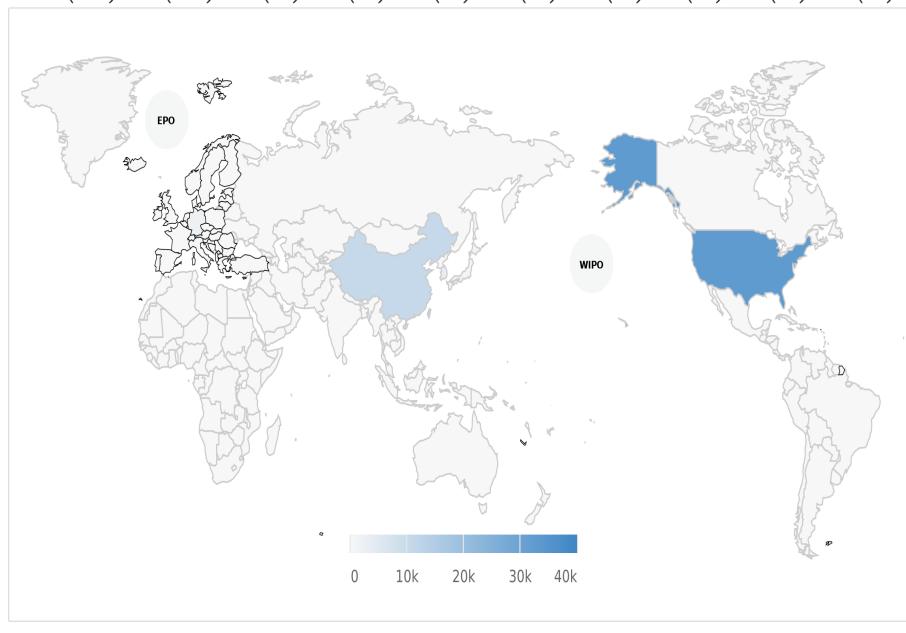
Global Coverage

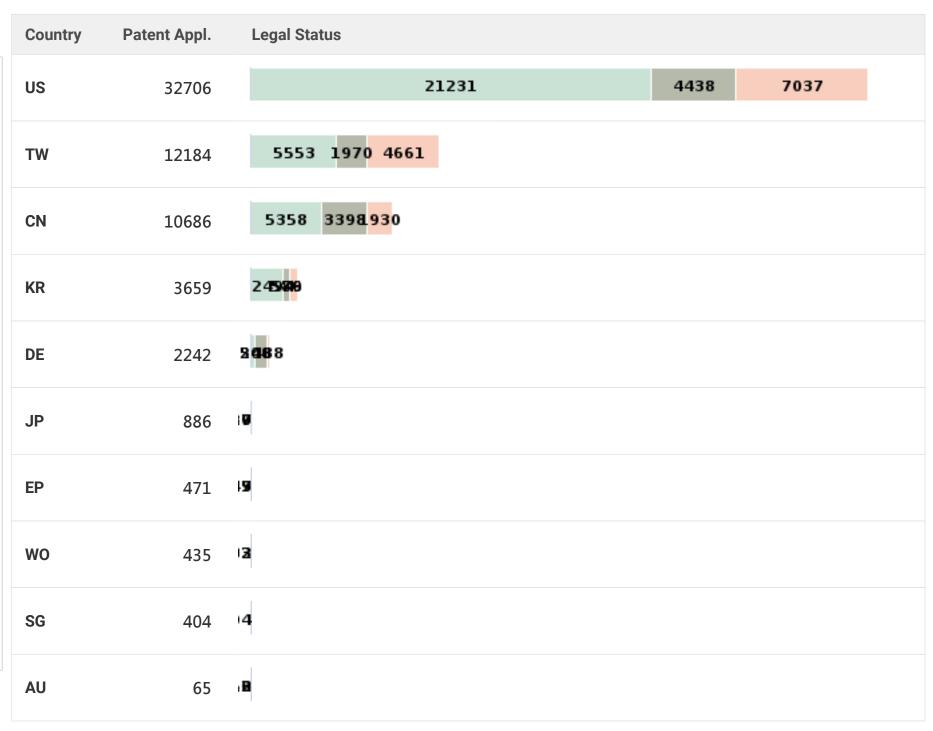
Establish whether the portfolio covers your target regional market.

Total # of Applications : 64,044; # of Applications in the chart : 64,044

Patents included: Active, Inactive and Pending patents

Country: US(32706) TW(12184) CN(10686) KR(3659) DE(2242) JP(886) EP(471) WO(435) SG(404) AU(65) NL(52) AT(42) GB(41) CA(31) IN(30) FR(22) HK(17)





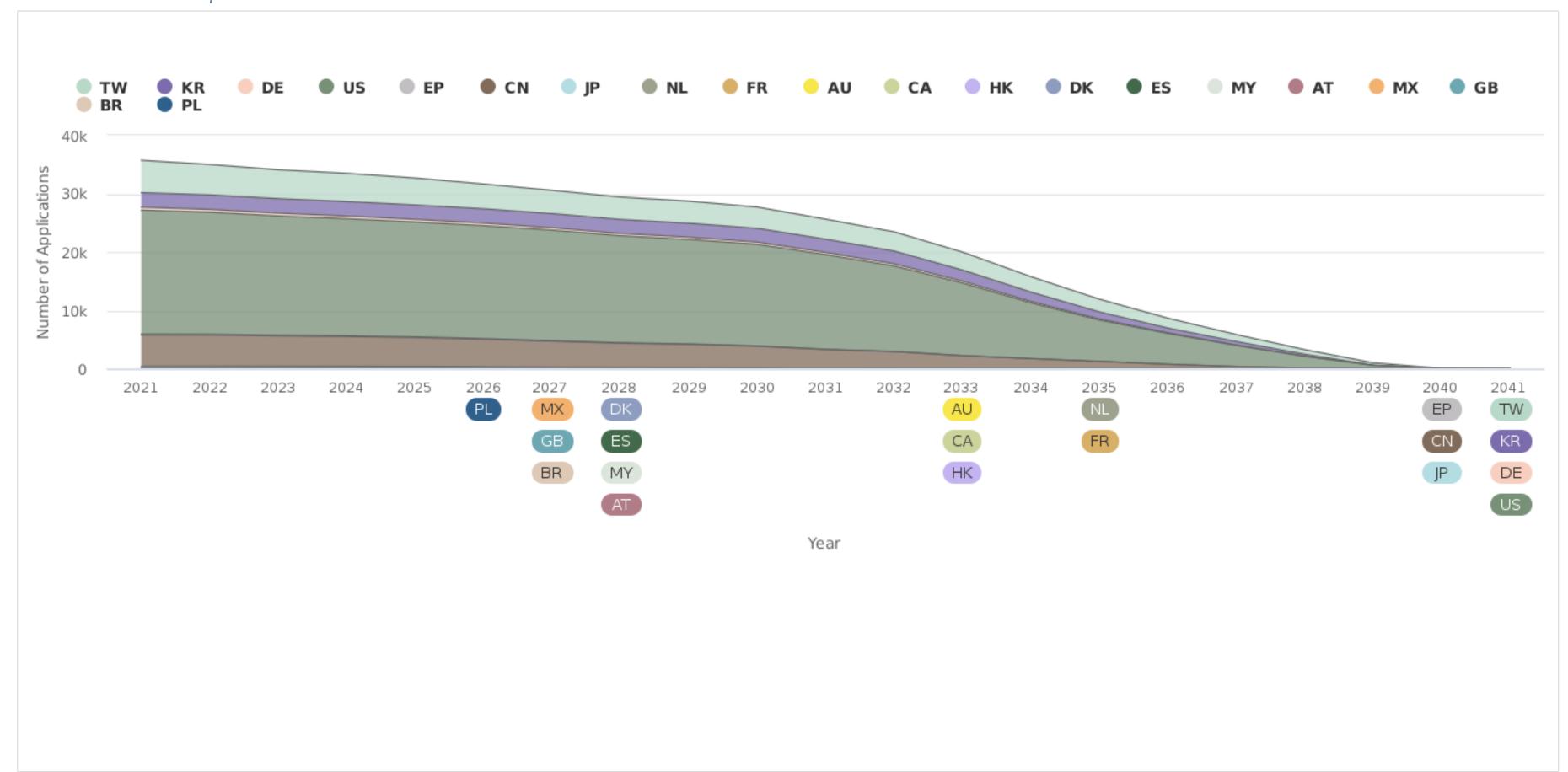


Remaining Life (Active Patents Only.)

The remaining life of the active patents in the portfolio.

Total # of Applications : 35,699; # of Applications in the chart : 35,699

Patents included: Active patents



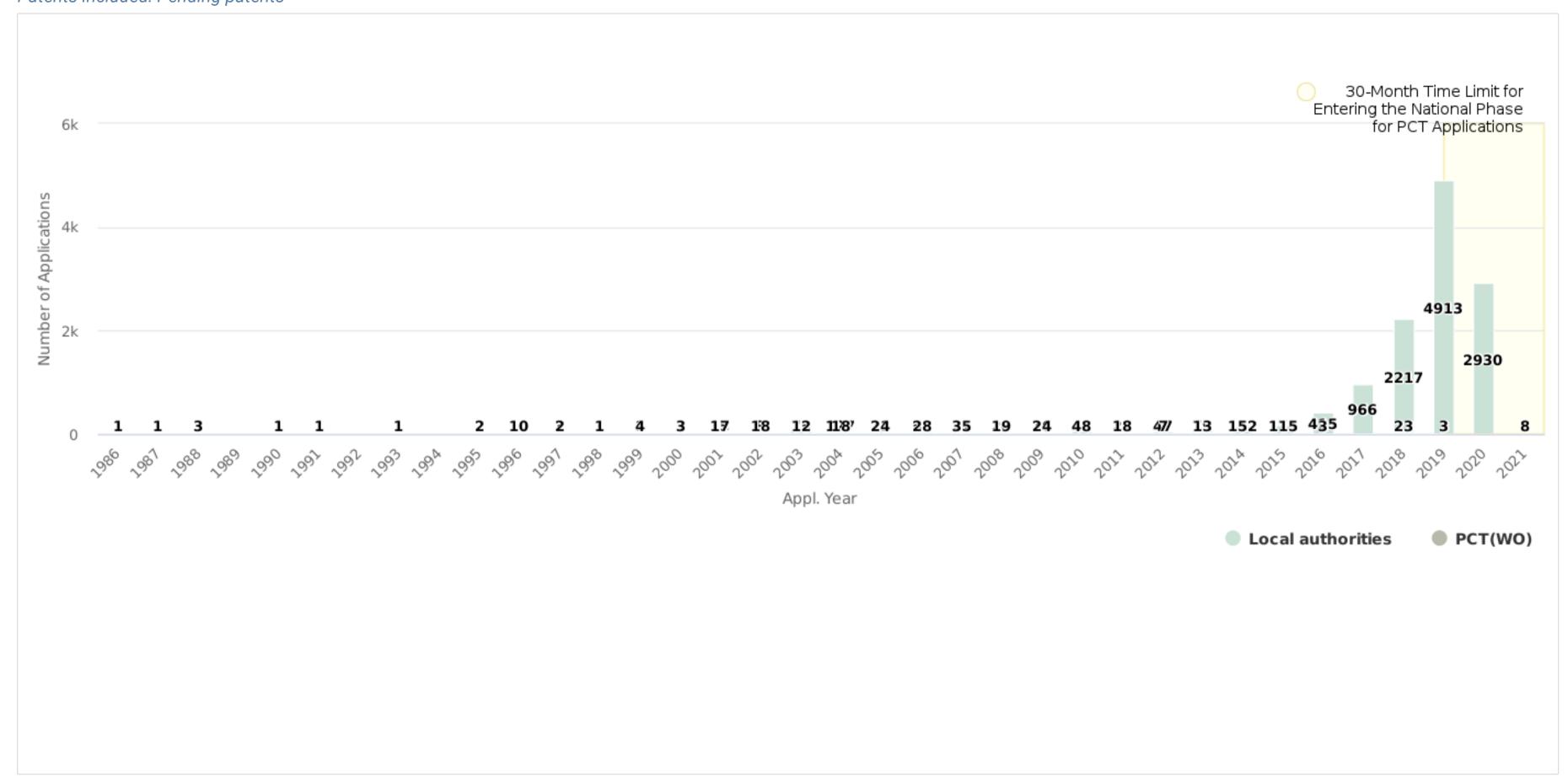


Pending Patents (Pending Patents Only.)

The filing dates of the pending patents.

Total # of Applications : 12,728; # of Applications in the chart : 12,728

Patents included: Pending patents

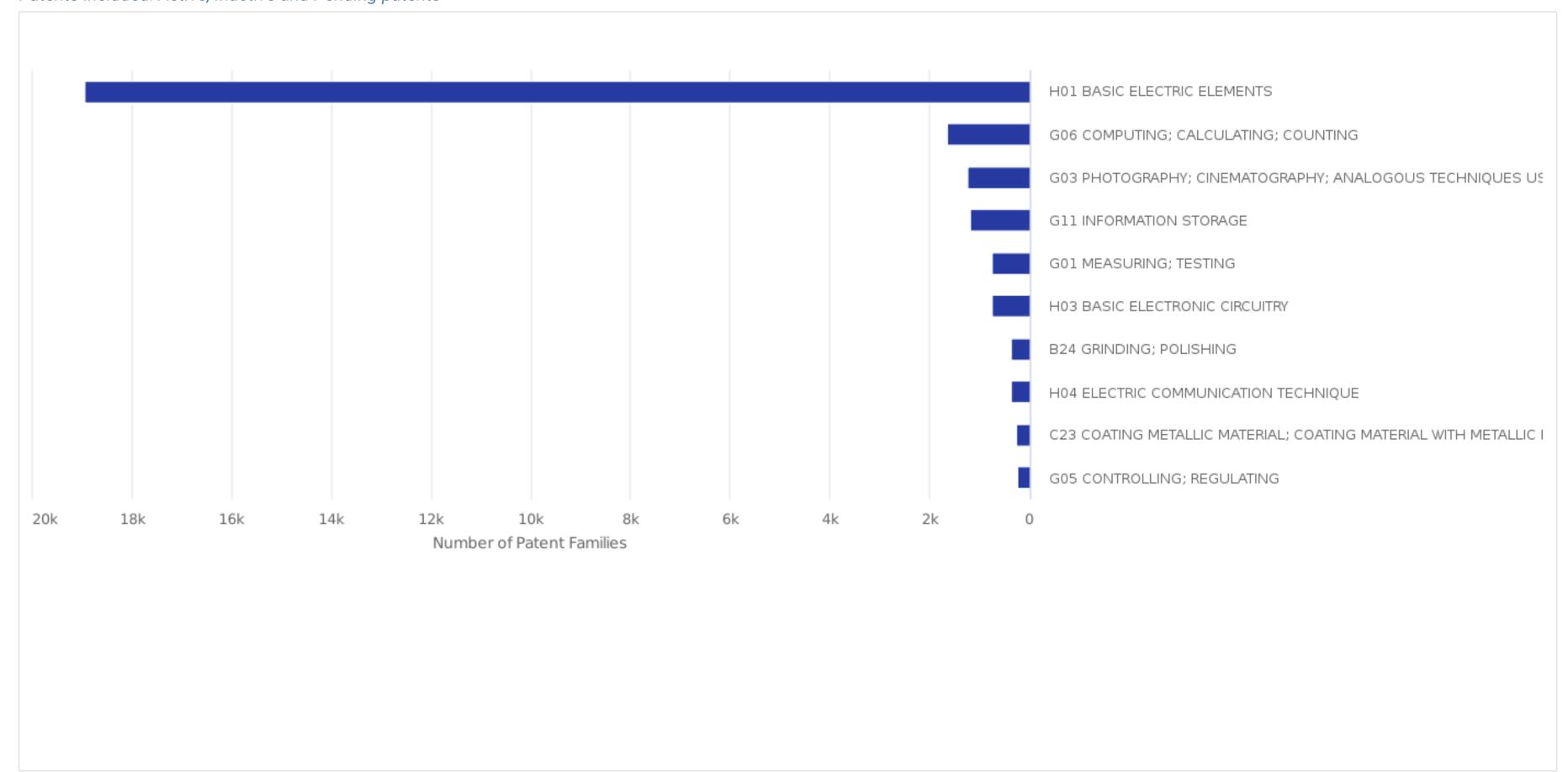




Technical Fields

Hierarchical overview of technology distribution.

Total # of Patent Families: 27,395; # of Patent Families in the chart: 25,669

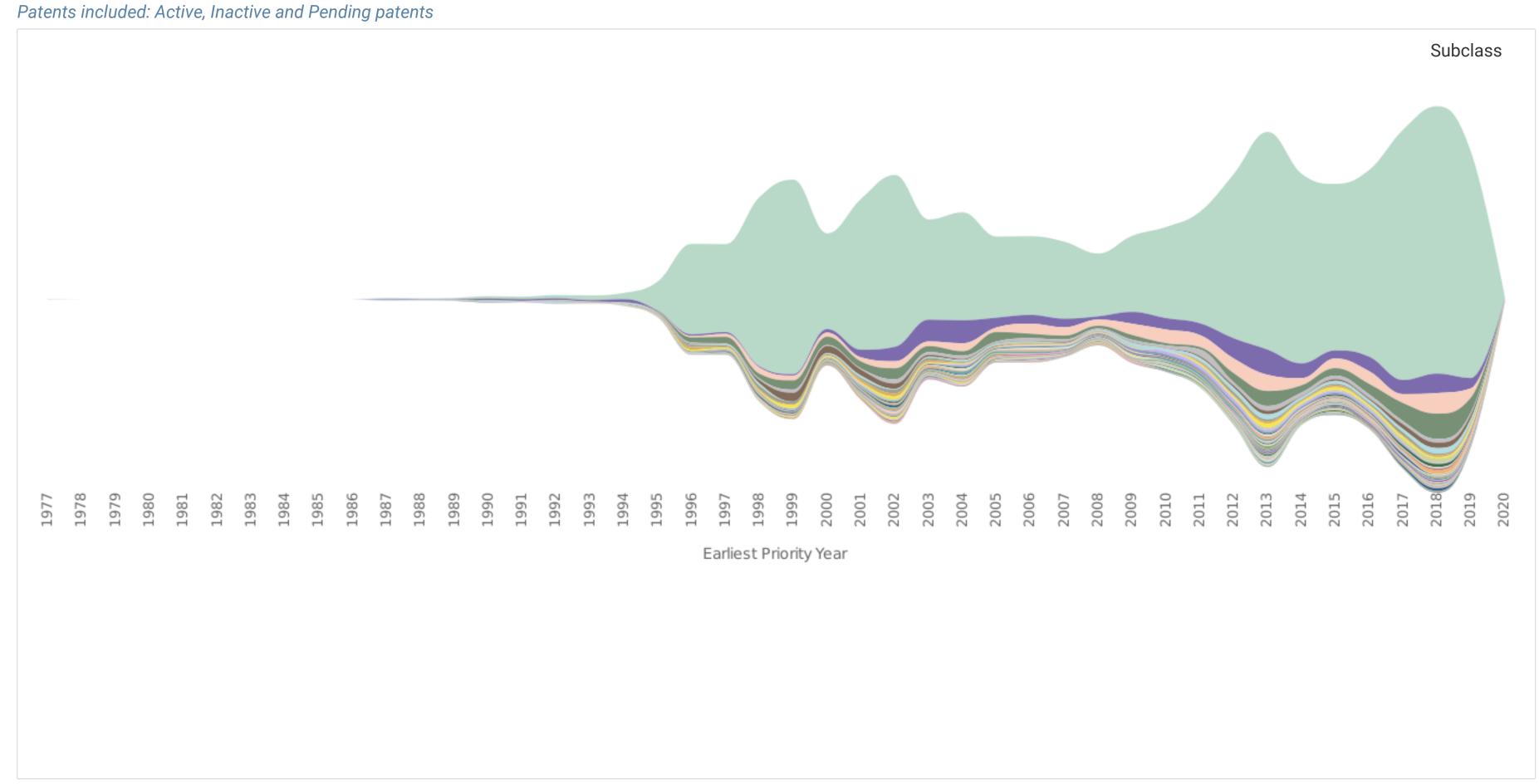




Technology Timeline

The chronological distribution of patent fillings in each technical field.

Total # of Patent Families: 27,395; # of Patent Families in the chart: 26,414

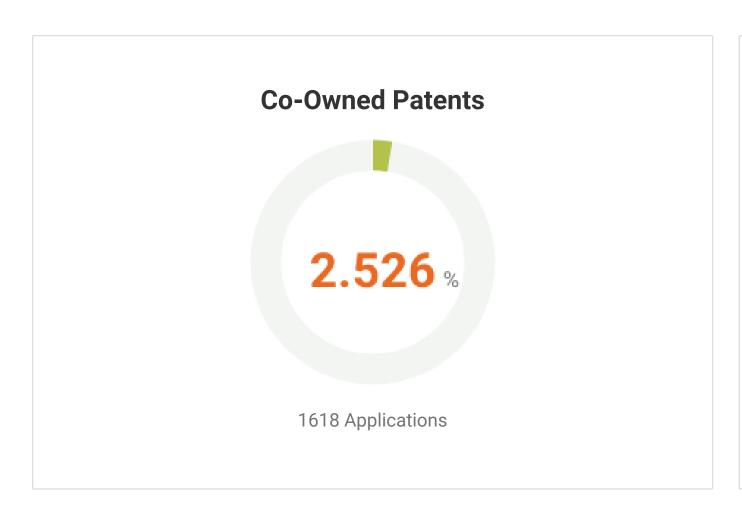


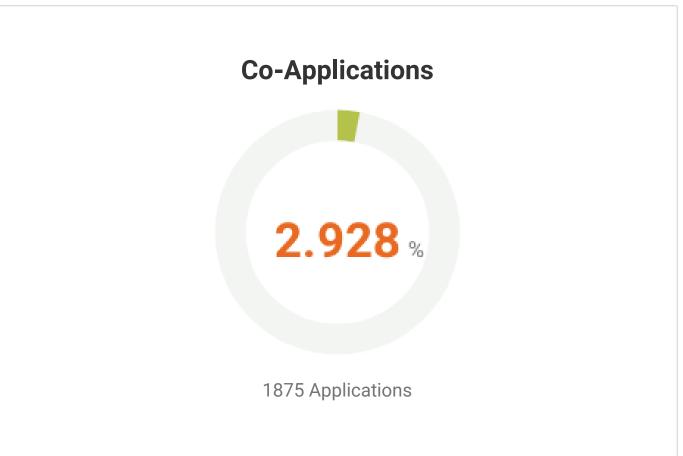


Co-Ownerships and Co-Applicants

Potential limitations for future enforcement.

Total # of Applications : 64,044; # of Applications in the chart : 2,153







Top 10 Assignees

Forecast future innovation trends based on past patent filing activities.

Total # of Applications : 64,044; # of Applications in the chart : 60,478

Rank	Applicants	Ultimate Parent	Applications	Timeline X-Axis: Appl. Year(1987-2021)
1	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	57255	
2	IBM CORP	IBM CORP	1334	
3	GLOBALFOUNDRIES INC	MUBADALA TECHNOLOGY INVESTMENTS MUBADALA	441	
4	GLOBAL UNICHIP CORP	GLOBAL UNICHIP CORP	401	
5	FREESCALE SEMICONDUCTOR INC	FREESCALE SEMICONDUCTOR INC	291	
6	VANGUARD INTERNATIONAL SEMICONDUCTOR CORP	VANGUARD INTERNATIONAL SEMICONDUCTOR CORP	276	
7	HEADWAY TECHNOLOGIES INC	TDK CORP	231	
8	PANASONIC CORP	PANASONIC CORP	225	
9	HYUNDAI ELECTRONICS AMERICA	HYUNDAI ELECTRONICS AMERICA INC	210	
10	ADVANCED MICRO DEVICES INC	ADVANCED MICRO DEVICES INC	196	



Top 10 Inventors

Forecast future innovation trends based on past patent filing activities.

Total # of Applications : 64,044; # of Applications in the chart : 6,893

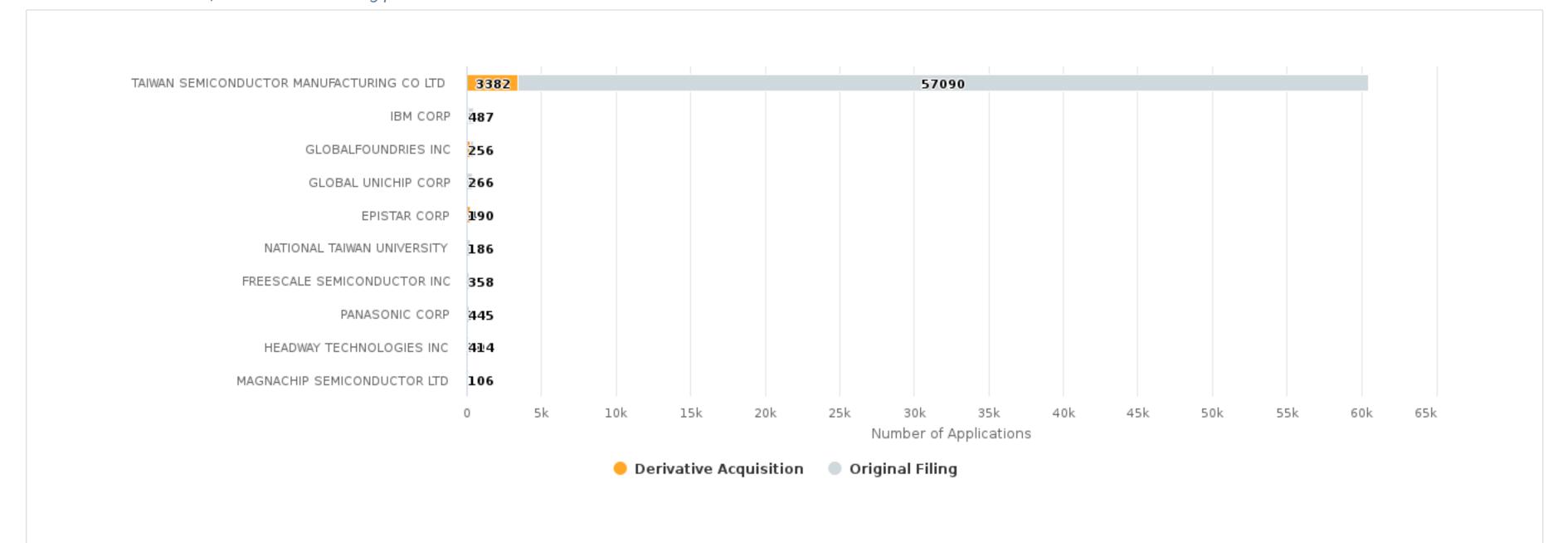
Rank	Inventors	Ultimate Parent	Applications	Timeline X-Axis: Appl. Year(1995-2020)
1	YU CHEN-HUA	IMEC,TAIWAN SEMICONDUCTOR MANUFACTURING CO	2204	
2	LIU CHUNG-SHI	IMEC,TAIWAN SEMICONDUCTOR MANUFACTURING CO	891	
3	CHEN HSIEN-WEI	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	861	
4	YAUNG DUN-NIAN	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	633	
5	LIAW JHON JHY	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	632	
6	LIN JING-CHENG	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	609	
7	TSAI CHIA-SHIUNG	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	545	
8	JENG SHIN-PUU	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	544	
9	CHANG CHING-YU	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	525	
10	WANG CHIH-HAO	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	525	



Current Patent Owners

Discover whether the patents were filed by the owners or acquired from others.

Total # of Applications: 64,044; # of Applications in the chart: 62,106

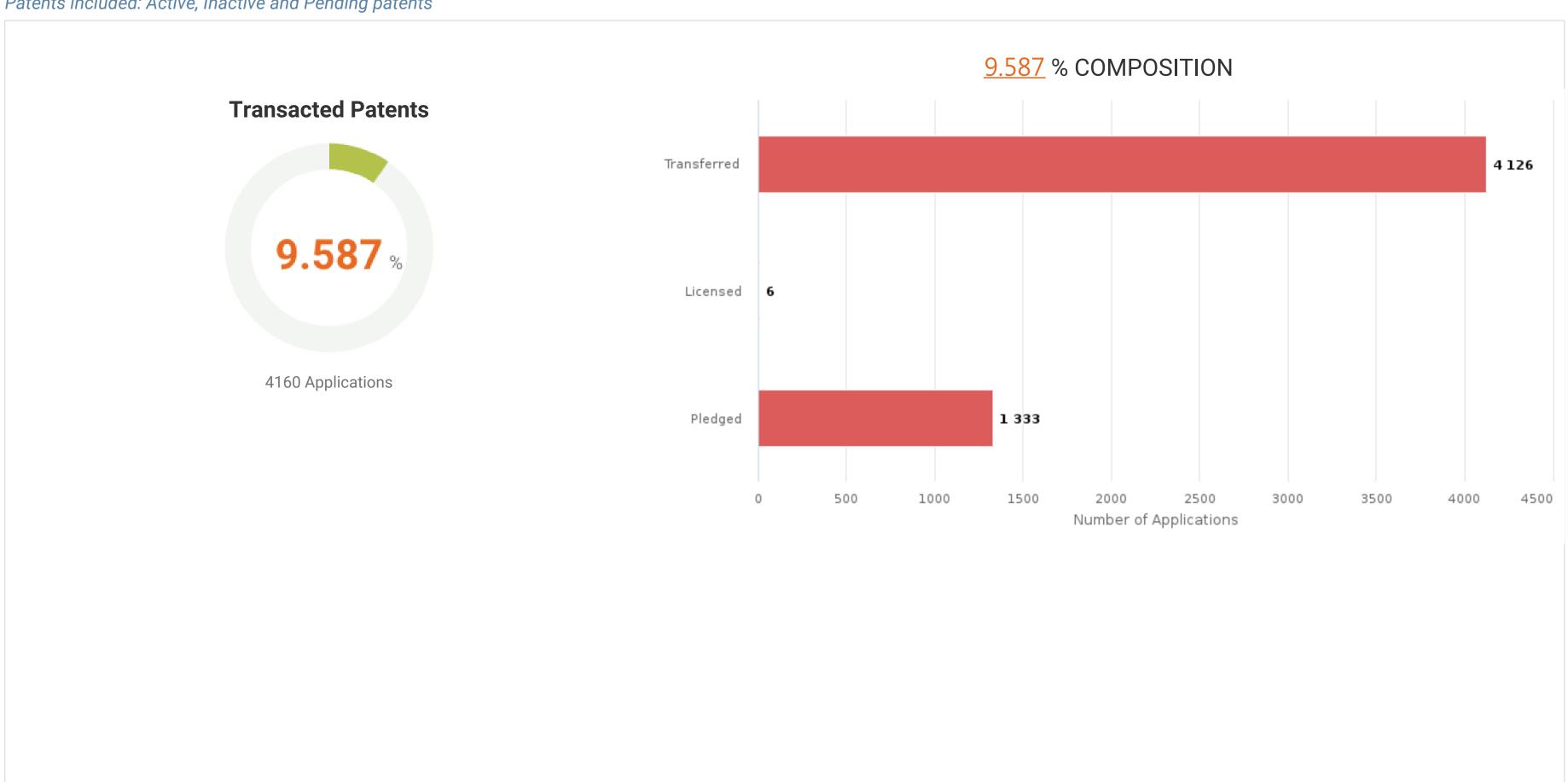




Transacted Patents (US and CN Patents Only.)

The value of these patents has been recognized; However, the practicing rights may be limited and should be watched closely.

Total # of Applications : 43,392; # of Applications in the chart : 4,160

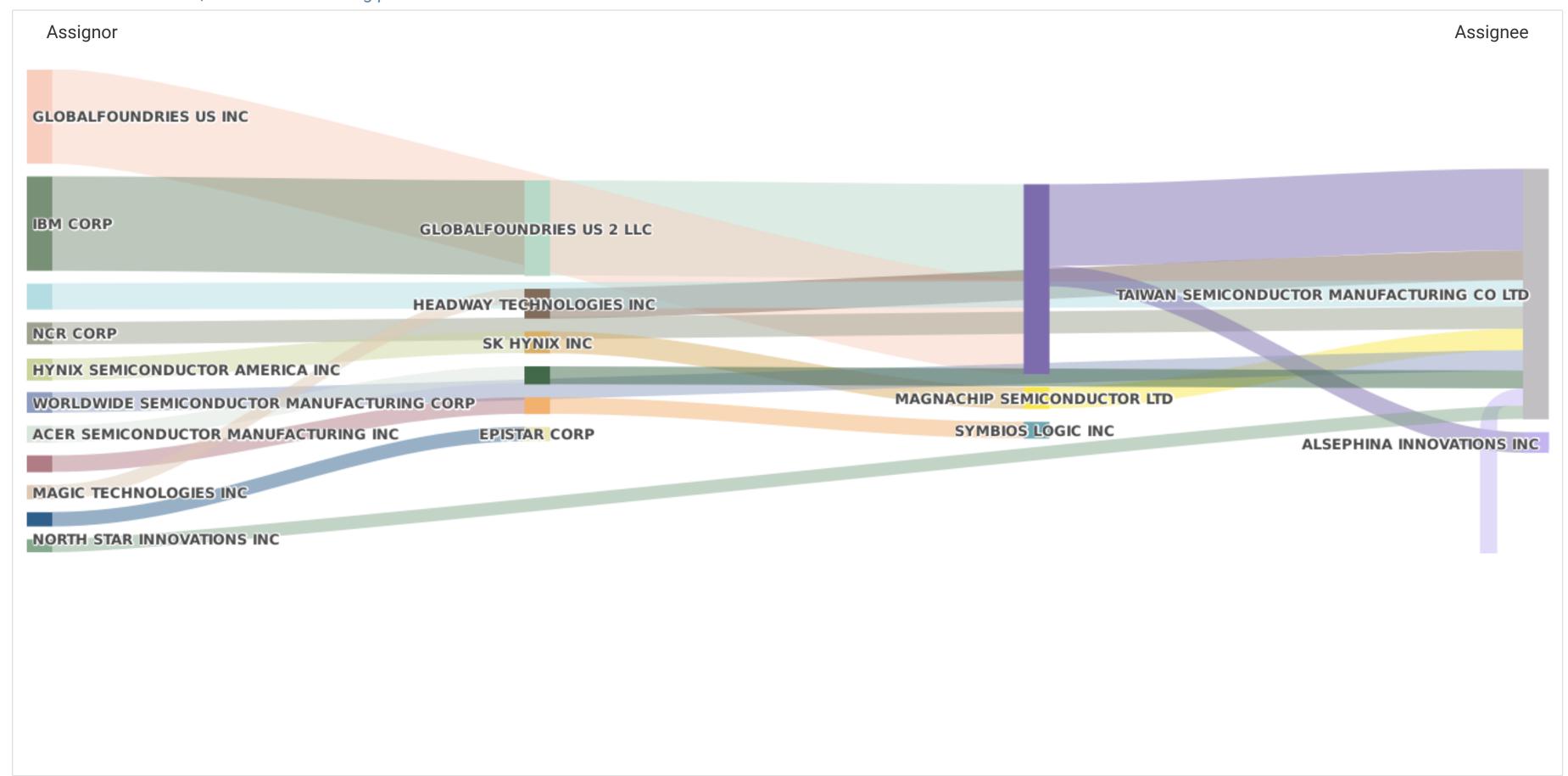




Transacted Patents - Transferred (US and CN Patents Only.)

The value of these patents has been recognized; However, the practicing rights may be limited and should be watched closely.

Total # of Applications : 4,126; # of Applications in the chart : 4,120





Transacted Patents - Licensed (US and CN Patents Only.)

The value of these patents has been recognized; However, the practicing rights may be limited and should be watched closely.

Total # of Applications : 6; # of Applications in the chart : 6

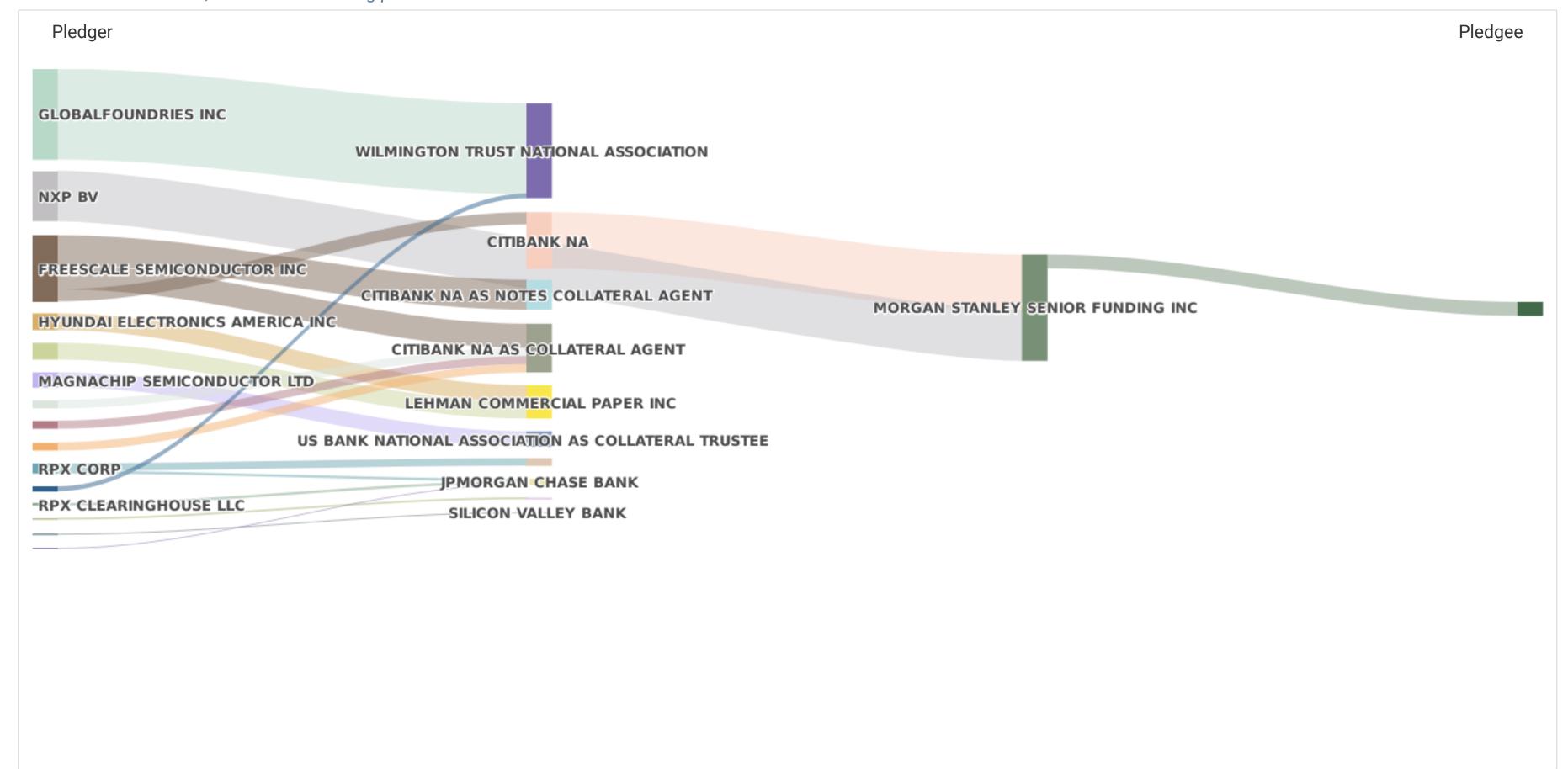
Licensor	Licensee
DANA-FARBER CANCER INST	
台湾半导体股份有限公司	NATIONAL INSTITUTES OF HEALTH NIË
CORNELL UNIVERSITY	阳信长威电子有限公司
OREGON STATE UNIVERSITY	NATIONAL SCIENCE FOUNDATION
VIRGINIA COMMONWEALTH UNIVERSITY	NAVY SECRETARY OF THE UNITED STATES OF AMERICA OFFICE OF NAVAL RESEARCH
NCR CORP	BE INTELLECTUAL PROPERTY INC



Transacted Patents - Pledged (US and CN Patents Only.)

Patents that have been pledged in the past; you can pay attention to which companies have patents.

Total # of Applications: 1,333; # of Applications in the chart: 1,333

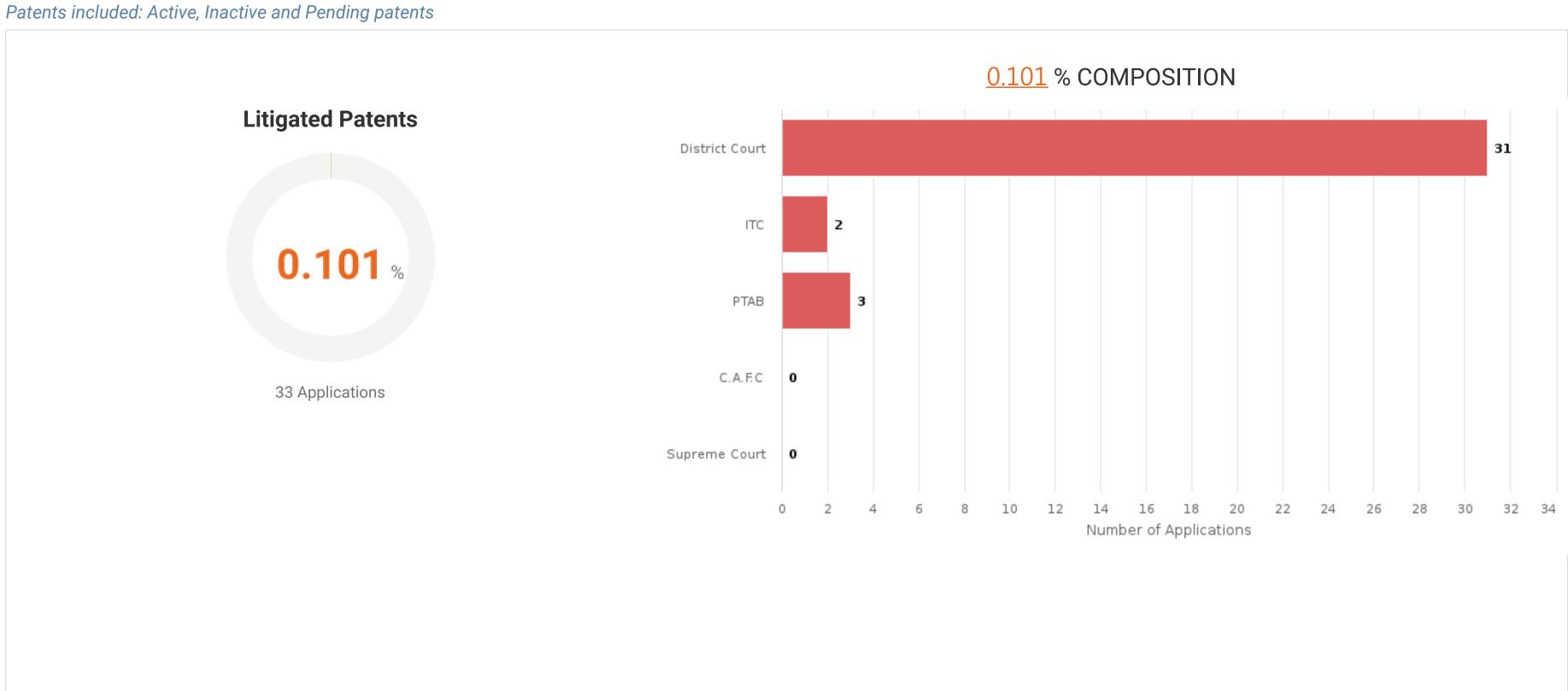




Litigated Patents (US Patents Only.)

Double-check any invalidity, settlement, or licensing activities.

Total # of Applications : 32,706; # of Applications in the chart : 33





High-Value Patent Families (US, CN, EP, JP, KR, TW Patents Only.)

An indication of the tendency to be transacted or practiced in regional markets.

Total # of Patent Families : 19,259; # of Patent Families in the chart : 19,259

Patents included: TW, JP, KR, CN, EP and US Active and Pending patents



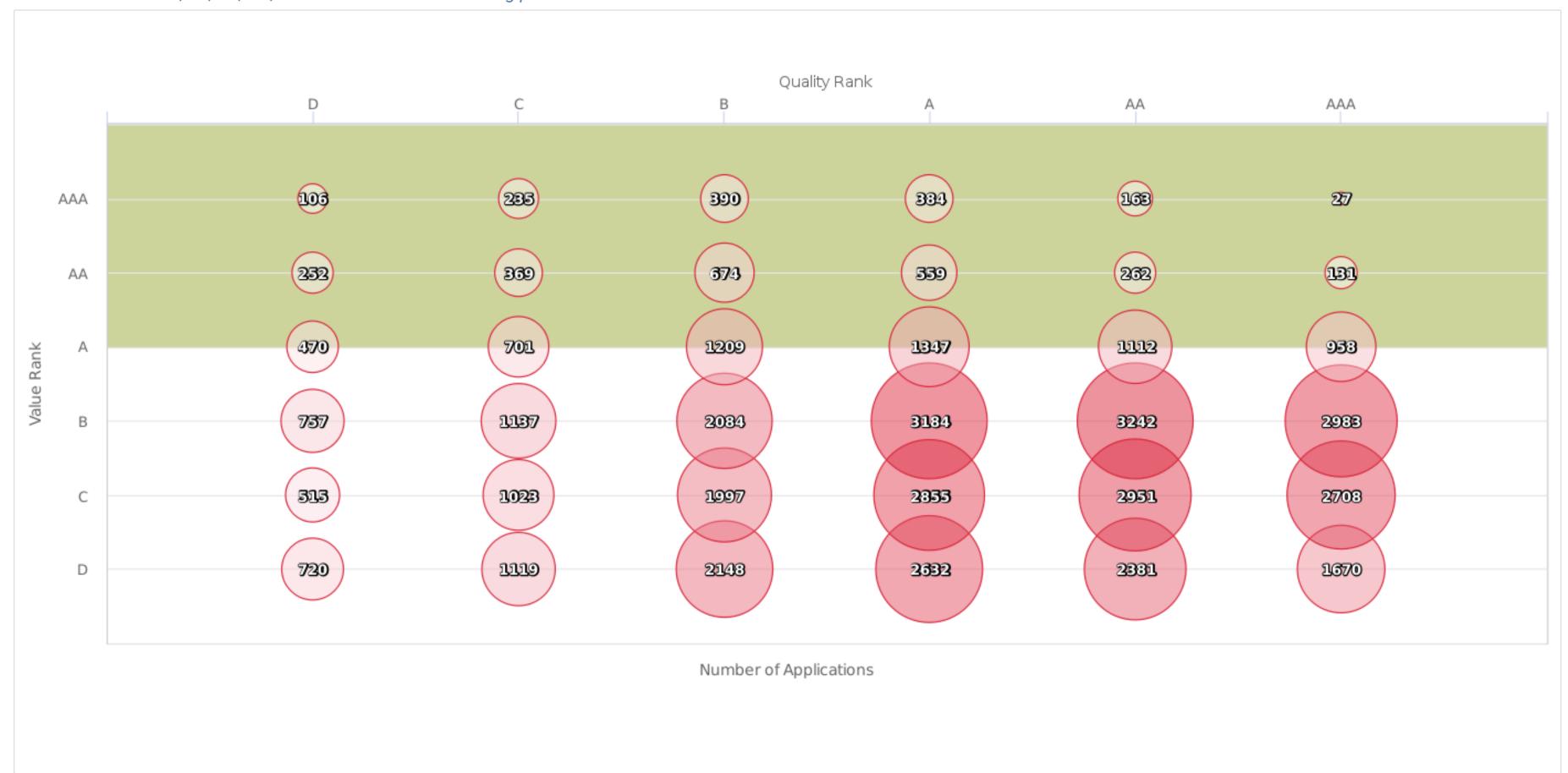


Quality of High-Value Patents (US, CN, EP, JP, KR, TW Patents Only.)

An indication of the tendency to be practiced and how difficult invalidation may be.

Total # of Applications : 45,455; # of Applications in the chart : 45,455

Patents included: TW, JP, KR, CN, EP and US Active and Pending patents





Peer Comparison in the Same Field (US, CN, EP, JP, KR, TW Patents Only.)

Competitive position in the relevant technology field.

Total # of Applications: 45,339; # of Applications in the chart: 45,074

Patents included: TW, JP, KR, CN, EP and US Active and Pending patents







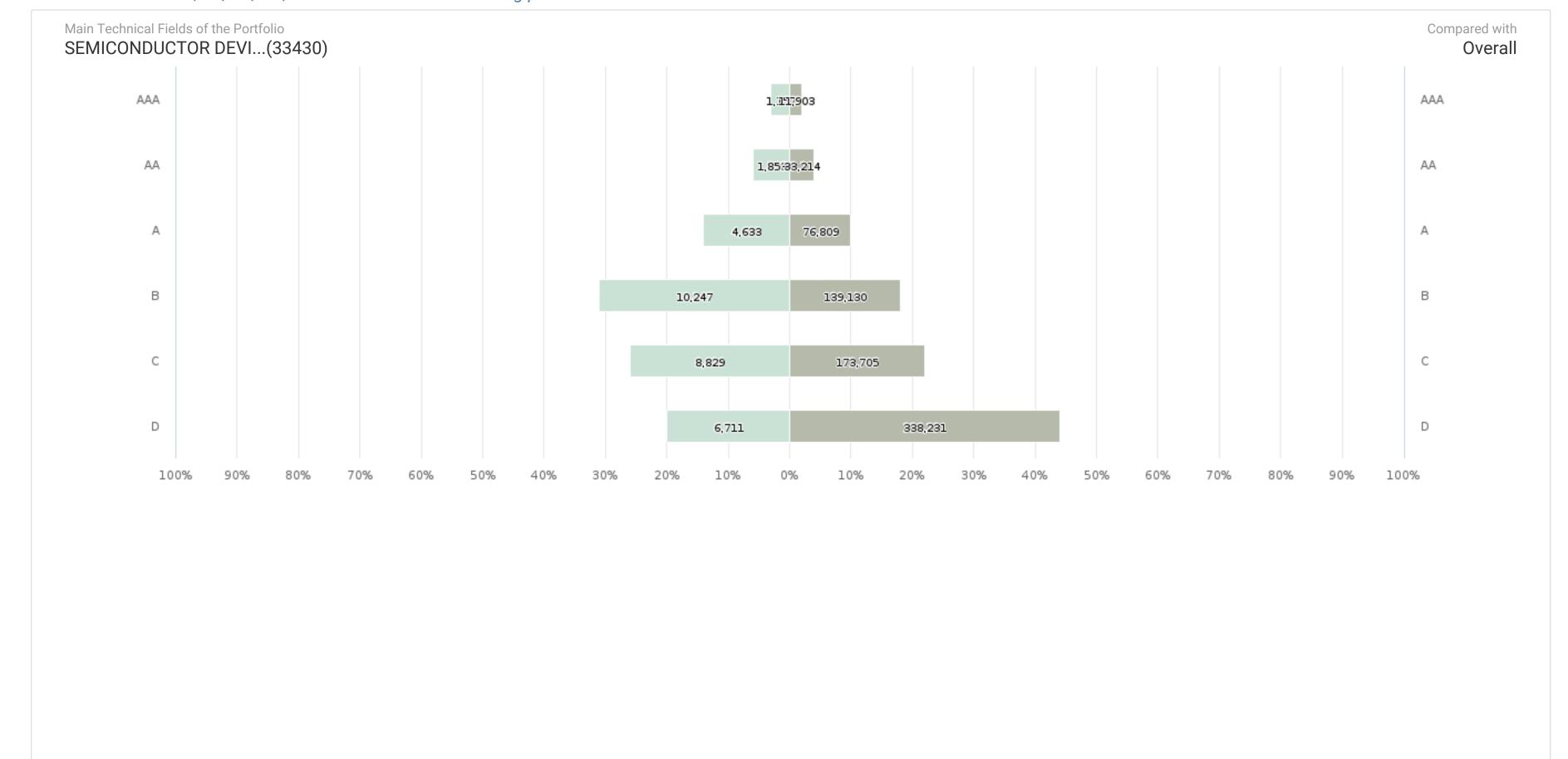
Peer Comparison in the Same Field (US, CN, EP, JP, KR, TW Patents Only.)

Competitive position in the relevant technology field.

Total # of Applications: 45,339; # of Applications in the chart: 45,074

Patents included: TW, JP, KR, CN, EP and US Active and Pending patents

Compared by : Value



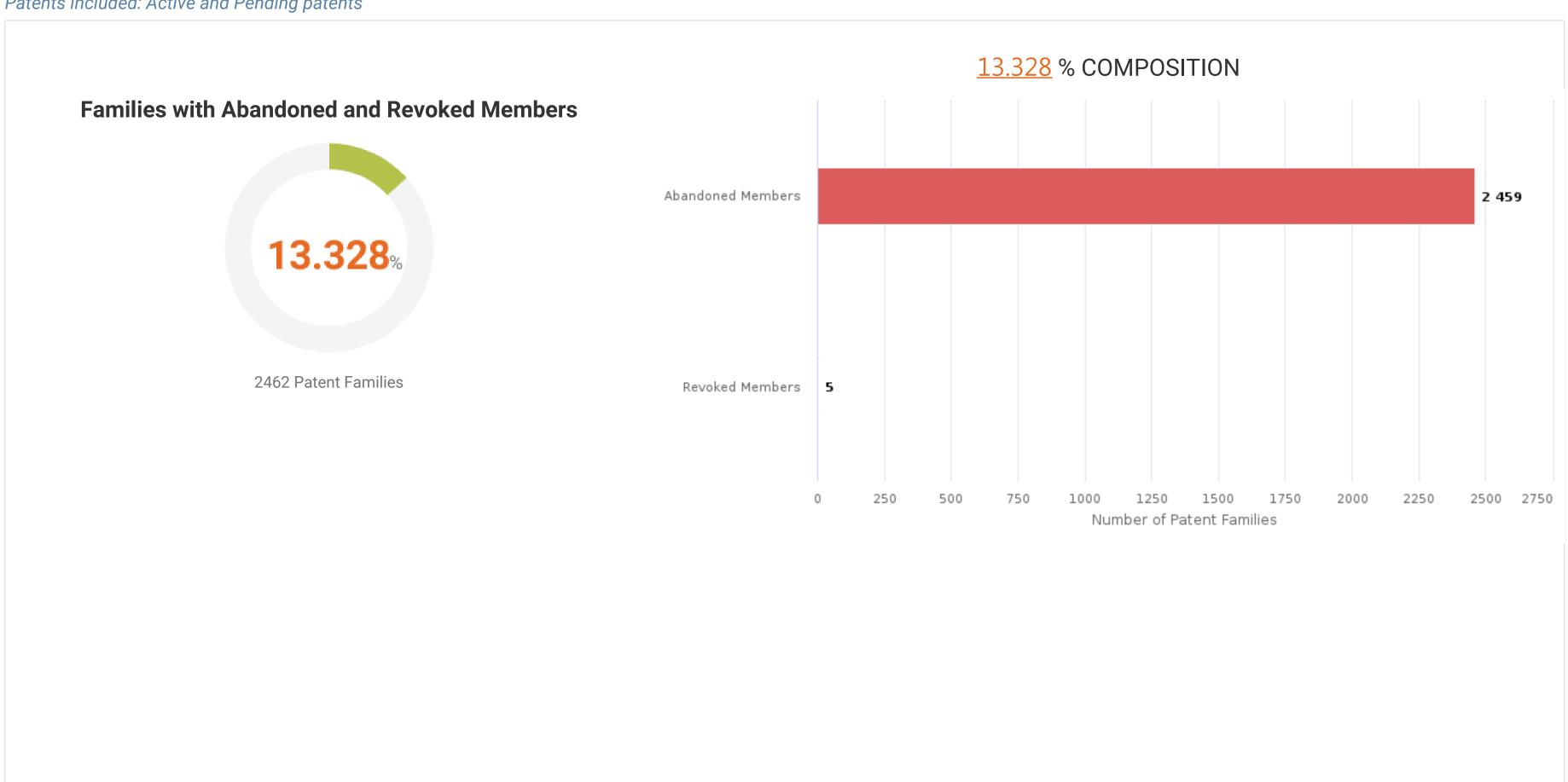


Abandoned and Revoked Family Members

An indication of quality issues such as family members not overcoming prior art.

Total # of Patent Families: 18,472; # of Patent Families in the chart: 2,462

Patents included: Active and Pending patents



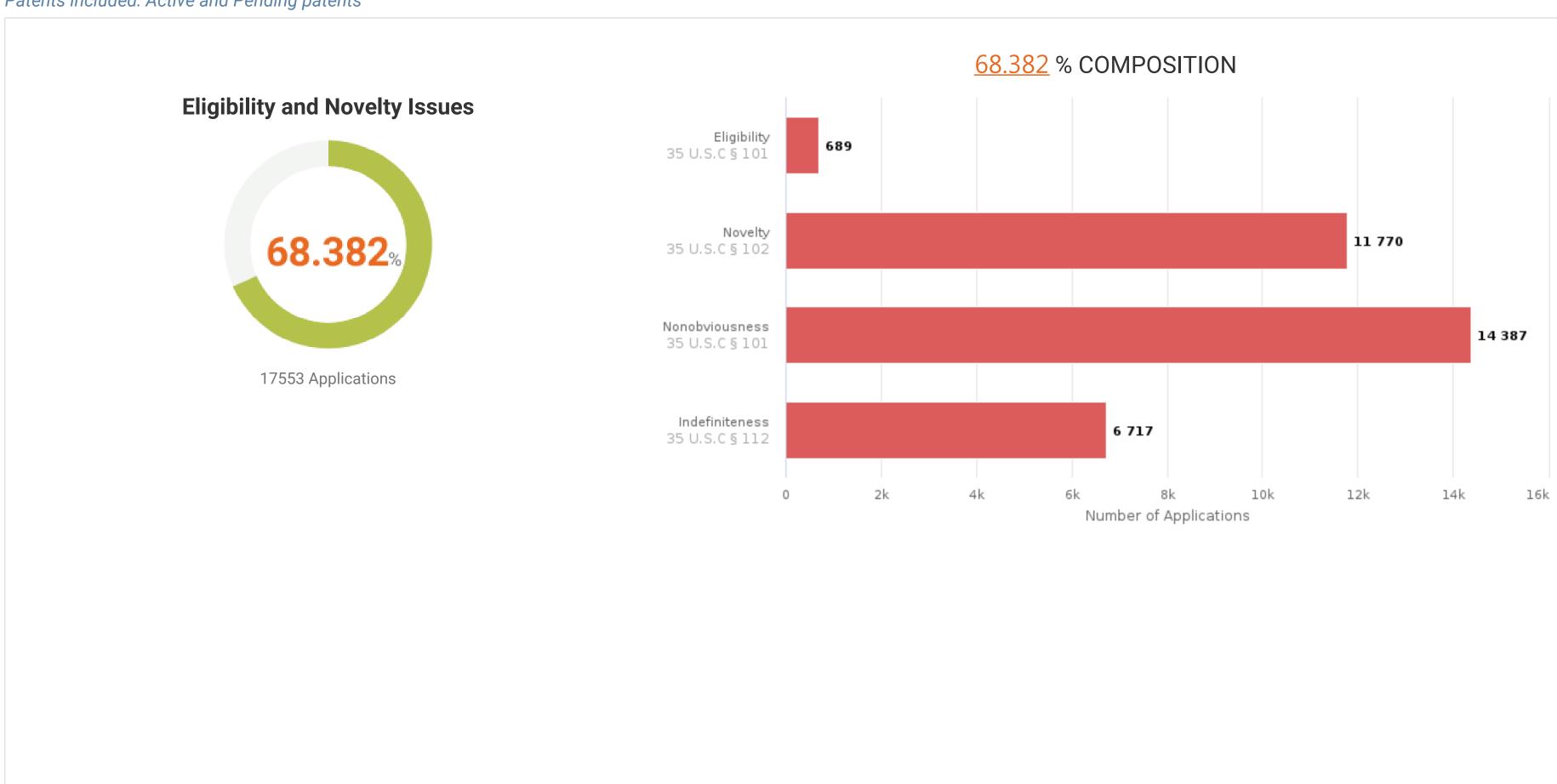


Eligibility and Novelty Issues (Pending Patents Only.)

The family members may have similar quality issues to the patents analyzed in this chart.

Total # of Applications : 25,669; # of Applications in the chart : 17,553

Patents included: Active and Pending patents





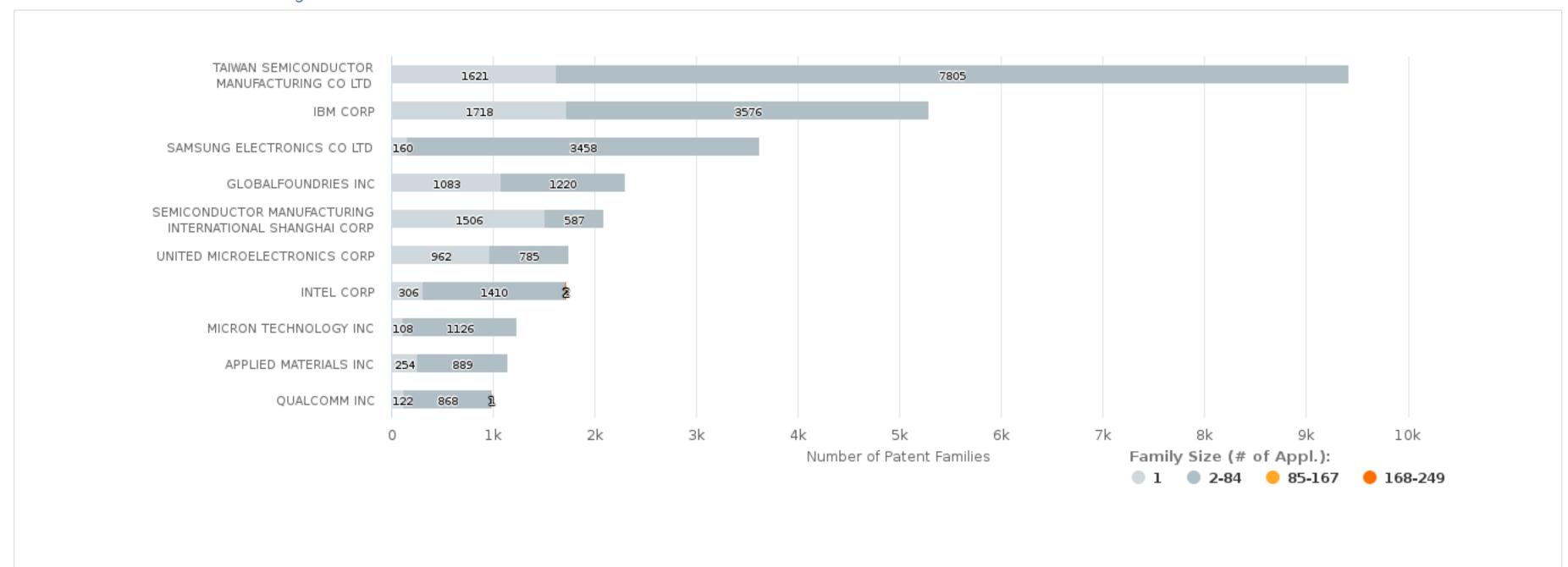
Potential Targets of the Portfolio

Determine the estimated likelihood of the potential targets practicing the patents — based on the continuity of patent filings in recent years.

Total # of Patent Families: 74,555; # of Patent Families in the chart: 29,197

Patents included: Active and Pending Forward Citations







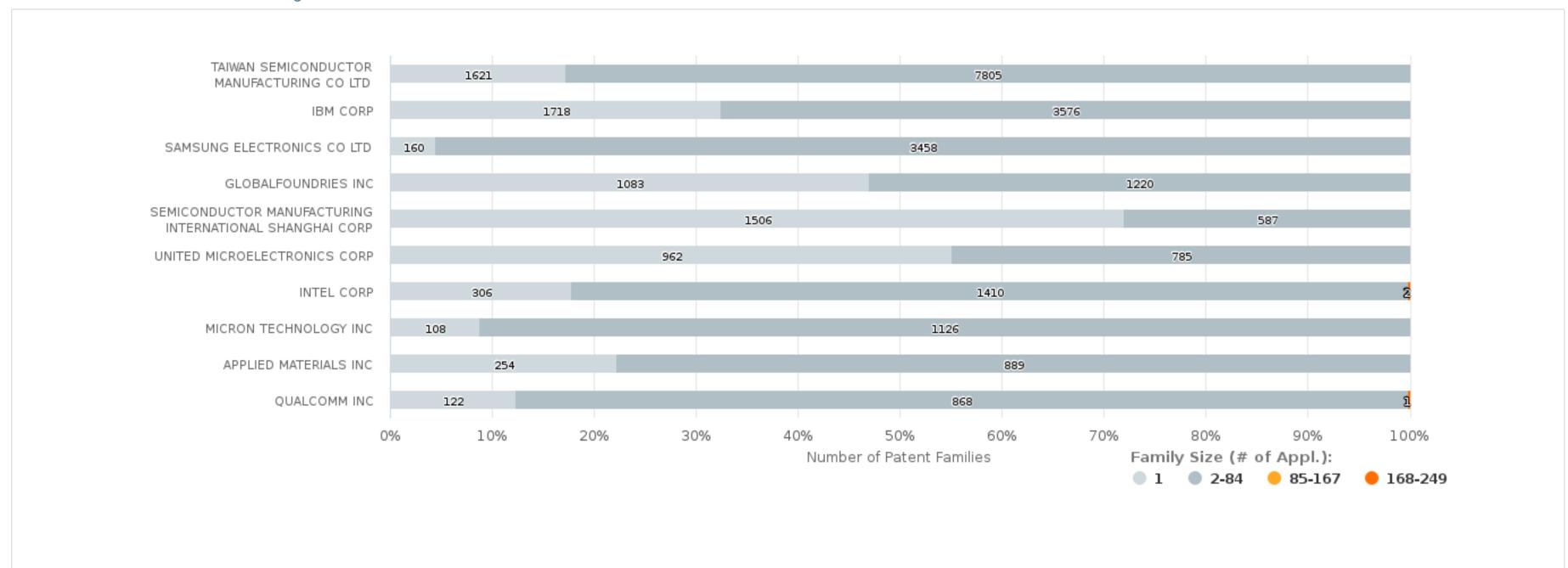
Potential Targets of the Portfolio

Determine the estimated likelihood of the potential targets practicing the patents — based on the continuity of patent filings in recent years.

Total # of Patent Families: 74,555; # of Patent Families in the chart: 29,197

Patents included: Active and Pending Forward Citations

Compared by : Percentage





Filing Dates of Potential Targets in the Relevant Art

Uncover the followers of relevant patent filings and their likelihood of being potential targets — based on the size of the patent family of the

Total # of Patent Families : 74,555; # of Patent Families in the chart : 26,823

Patents included: Active and Pending Forward Citations

Rank	Applicants	Ultimate Parent	Simple Family	Timeline X-Axis: Earliest Priority Year(1992-2020)
1	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	9426	
2	IBM CORP	IBM CORP	5294	
3	SAMSUNG ELECTRONICS CO LTD	SAMSUNG ELECTRONICS CO LTD	3618	
4	GLOBALFOUNDRIES INC	MUBADALA TECHNOLOGY INVESTMENTS MUBADALA	2303	
5	SEMICONDUCTOR MANUFACTURING INTERNATIONAL SHANGHAI CORP	SMIC INVESTMENT SHANGHAI CORP	2093	
6	UNITED MICROELECTRONICS CORP	UNITED MICROELECTRONICS CORP	1747	
7	INTEL CORP	INTEL CORP	1718	
10	QUALCOMM INC	QUALCOMM INC	991	



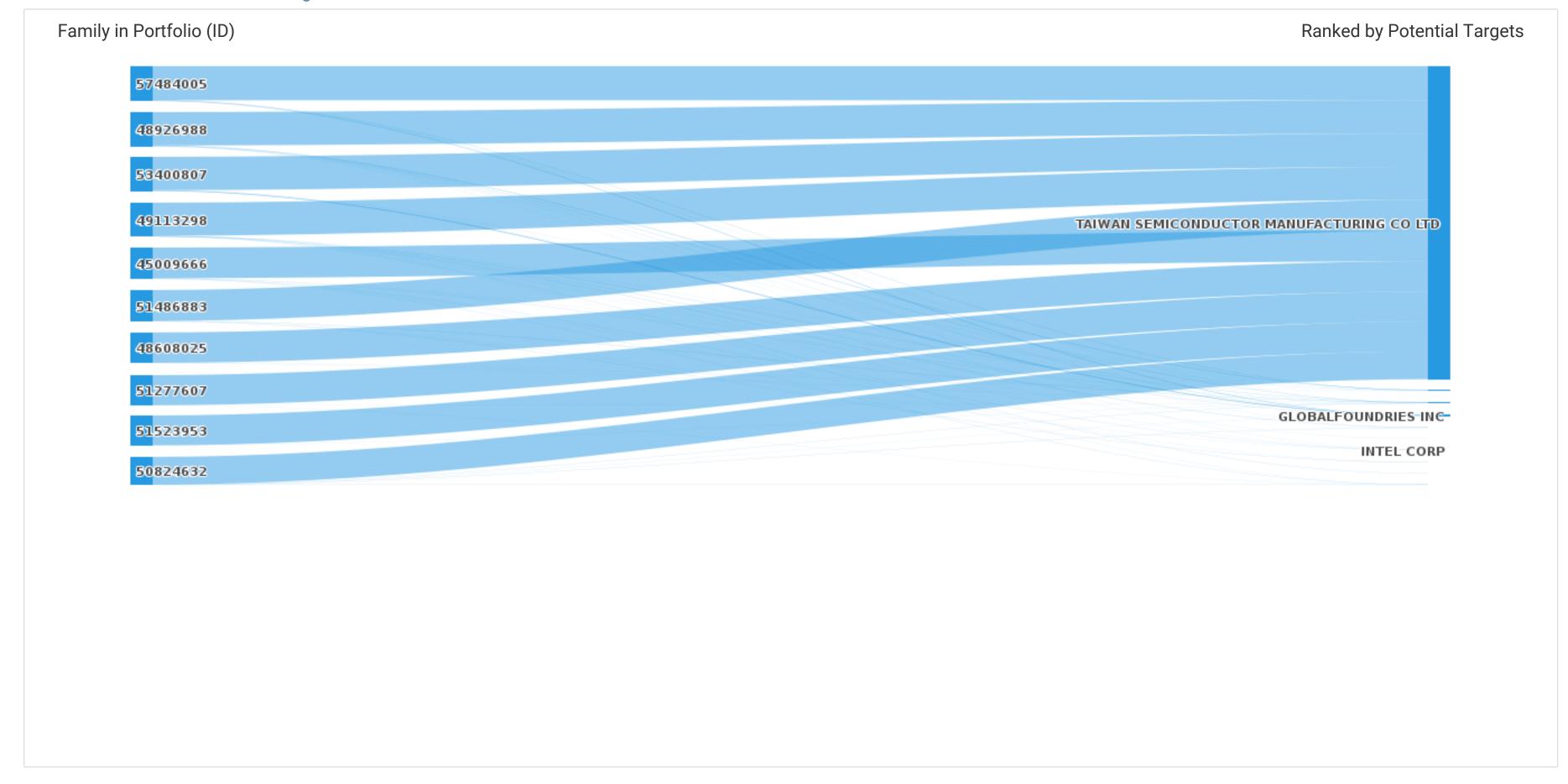
Patents Against the Potential Targets

The patent families that may be used against the potential targets.

Total # of Patent Families: 74,556; # of Patent Families in the chart: 29,197

Patents included: Active and Pending Forward Citations







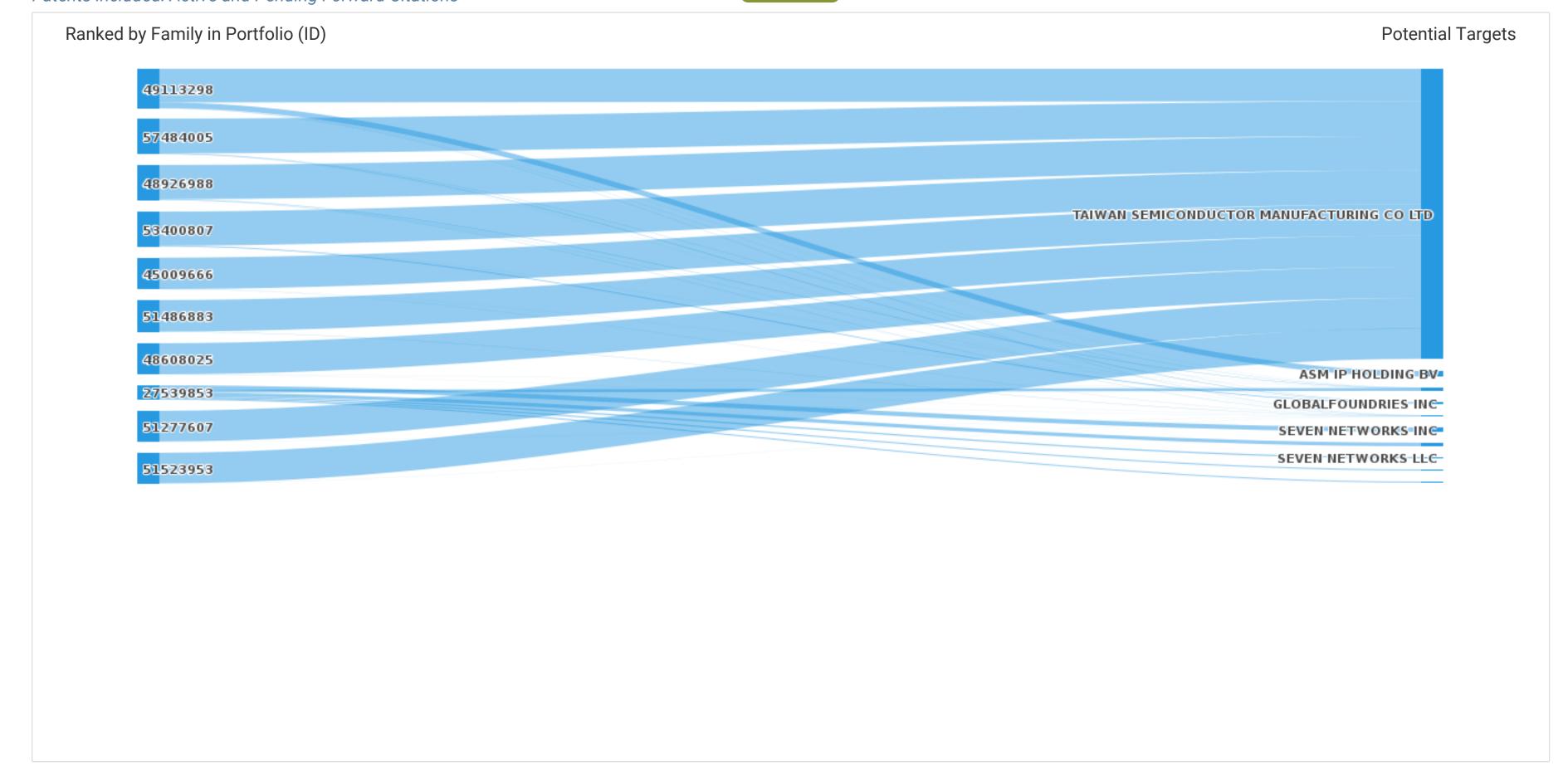
Patents Against the Potential Targets

The patent families that may be used against the potential targets.

Total # of Patent Families: 1,651; # of Patent Families in the chart: 1,328

Patents included: Active and Pending Forward Citations

Ranked by : Family ID





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