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Top 300 Organizations Granted U.S. Patents in 2022

40th Annual Listing

This list of organizations that received the most U.S. utility patents is being published by IPO for the 40th consecutive year, in collaboration with [Harrity Analytics](#). It is based on data obtained from the U.S. Patent and Trademark Office.

For additional patent prosecution, technology, and law firm statistics related to the U.S. Patents issued in 2022, visit the [Patent 300® website](#) for an interactive dashboard.

January 6, 2023

2022 Patent Owners

Numerical Listing

The total number of patents granted by the USPTO in 2022 was 323,018, down 1 percent from 2021. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2021 and 2022, and many other factors. New organizations on the list are provided on page 9.

Rank	Organization	2022 Patents	Change from 2021
1	SAMSUNG ELECTRONICS CO., LTD.	8513	0%
2	INTERNATIONAL BUSINESS MACHINES	4743	-44%
3	LG CORPORATION	4580	5%
4	TOYOTA JIDOSHA K.K.	3056	11%
5	CANON K.K.	3046	-10%
6	TAIWAN SEMICONDUCTOR MFG. CO.	3038	8%
7	HUAWEI TECHNOLOGIES CO., LTD.	3023	3%
8	BOE TECHNOLOGY GROUP CO.	2725	27%
9	RAYTHEON TECHNOLOGIES	2684	0%
10	QUALCOMM	2656	22%
11	SONY CORPORATION	2638	1%
12	INTEL CORPORATION	2501	-9%
13	DELL TECHNOLOGIES	2445	19%
14	APPLE INC.	2313	-11%
15	ALPHABET INC.	2077	2%
16	AMAZON.COM, INC.	2051	-3%
17	MICRON TECHNOLOGY INC.	1921	7%
18	MICROSOFT CORPORATION	1888	-25%
19	HYUNDAI MOTOR COMPANY	1786	20%
20	HITACHI, LTD.	1557	3%
21	PANASONIC CORPORATION	1521	-11%
22	TELEFONAKTIEBOLAGET LM ERICSSON	1419	1%
23	JOHNSON & JOHNSON	1377	-11%
24	FUJIFILM HOLDINGS CORP	1360	-7%
25	HONDA MOTOR COMPANY, LTD.	1351	11%
26	HEWLETT-PACKARD COMPANY	1348	35%
27	FORD MOTOR COMPANY	1342	-20%
28	GENERAL ELECTRIC COMPANY	1327	-15%
29	MEDTRONIC PLC	1306	12%
30	MITSUBISHI ELECTRIC CORPORATION	1277	0%
31	SK GROUP	1254	16%
32	SEIKO EPSON CORPORATION	1241	1%
33	ROBERT BOSCH GMBH	1190	17%
34	TOSHIBA CORPORATION	1126	3%
35	SIEMENS AG	1123	10%
36	TCL CORPORATION	1117	33%
36	BOEING COMPANY	1117	-14%
38	DENSO CORPORATION	1027	-8%
39	NEC CORPORATION	1013	9%
40	MURATA MANUFACTURING CO., LTD.	1007	17%
41	BBK ELECTRONICS CORPORATION	1004	27%
42	META PLATFORMS, INC.	995	-17%
43	US FEDERAL GOVERNMENT	973	-8%
44	HALLIBURTON COMPANY	963	5%
44	SAUDI ARABIAN OIL COMPANY	963	12%
46	CISCO SYSTEMS, INC.	962	-5%
47	AT&T INC.	911	-15%
48	TEXAS INSTRUMENTS INCORPORATED	910	-6%
49	KONINKLIJKE PHILIPS N.V.	840	-8%
50	KYOCERA CORPORATION	815	-2%

Rank	Organization	2022 Patents	Change from 2021
50	NIPPON TELEGRAPH & TELEPHONE	815	89%
52	APPLIED MATERIALS, INC.	793	5%
53	TENCENT HOLDINGS LTD	789	24%
54	VMWARE, INC.	762	-18%
55	ORACLE CORPORATION	759	10%
56	HONEYWELL INTERNATIONAL INC.	750	-20%
57	GENERAL MOTORS COMPANY	734	-3%
58	WESTERN DIGITAL CORPORATION	733	-4%
59	CAPITAL ONE FINANCIAL	708	1%
60	NOKIA CORPORATION	694	0%
61	RICOH COMPANY LTD.	676	-13%
61	VERIZON COMMUNICATIONS INC.	676	-3%
63	BROTHER INDUSTRIES, LTD.	659	10%
64	INFINEON TECHNOLOGIES AG	657	-4%
65	SAP SE	656	4%
66	SHARP CORPORATION	653	-24%
67	FUJITSU LIMITED	652	-18%
68	SALESFORCE.COM, INC.	634	7%
69	PORSCHE AUTOMOBIL HOLDING SE	633	-8%
70	LENOVO GROUP LIMITED	632	10%
71	KIOXIA HOLDINGS CORPORATION	625	-7%
72	COMMSCOPE INC.	624	30%
73	BAIDU, INC.	618	43%
74	SUMITOMO ELECTRIC INDUSTRIES	611	-13%
75	BANK OF AMERICA CORPORATION	608	19%
76	TDK CORPORATION	594	11%
77	STMICROELECTRONICS	587	-4%
78	UNIVERSITY OF CALIFORNIA	570	-15%
79	SOFTBANK GROUP CORP.	565	-3%
79	TOKYO ELECTRON LIMITED	565	21%
81	SAFRAN S.A.	560	2%
82	AIRBUS SE	523	12%
83	MITSUBISHI HEAVY INDUSTRIES, LTD.	522	-2%
84	HEWLETT PACKARD ENTERPRISE	511	-4%
85	3M COMPANY	508	-11%
85	BAYER AG	508	4%
87	XIAOMI INC.	503	33%
88	BOSTON SCIENTIFIC CORPORATION	494	-7%
89	CORNING INCORPORATED	483	13%
90	CATERPILLAR INC.	482	1%
91	NXP SEMICONDUCTORS N.V.	471	-2%
92	ROLLS-ROYCE HOLDINGS PLC	464	-13%
93	CONTINENTAL AG	459	1%
94	DEUTSCHE TELEKOM AG	457	10%
94	SAMSUNG ELECTRO-MECHANICS	457	-5%
96	DEERE & COMPANY	452	4%
97	STRYKER CORPORATION	444	-8%
98	ADVANCED MICRO DEVICES, INC.	438	-2%
99	SNAP INC.	437	24%
100	PROCTER & GAMBLE COMPANY	433	-20%

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101	FANUC CORPORATION	422	▲ 5%
102	ADOBE INC.	419	▼ -14%
103	ALIBABA GROUP HOLDING LIMITED	418	▲ 37%
104	COMCAST CORPORATION	413	▲ 17%
105	BASF SE	412	▼ -16%
105	SEMICONDUCTOR ENERGY LAB	412	▼ -13%
107	MEDIATEK INC.	408	▼ -1%
108	OLYMPUS CORPORATION	407	▼ -20%
109	WELLS FARGO & COMPANY	403	■ 4%
110	XPERI HOLDING CORPORATION	389	▼ -2%
111	NIKE, INC.	388	▼ -3%
112	JAPAN DISPLAY INC.	385	▲ 6%
113	STATE UNIVERSITY SYSTEM OF FL	384	▼ -9%
114	TSINGHUA HOLDINGS	382	▲ 6%
115	ETRI	380	▼ -8%
116	JOHNSON CONTROLS INTERNATIONAL	374	▼ -3%
117	SLB	372	▼ -14%
118	MUBADALA INVESTMENT COMPANY	369	▼ -4%
119	ADVANCED NEW TECHNOLOGIES	367	▼ -51%
120	BAYERISCHE MOTOREN WERKE AG	361	▲ 10%
120	ROCHE HOLDING AG	361	▼ -24%
122	CITRIX SYSTEMS, INC.	354	▲ 27%
123	BAKER HUGHES COMPANY	350	▼ -11%
124	ZF FRIEDRICHSHAFEN AG	347	■ 3%
125	USAA	346	▲ 13%
126	DOW CHEMICAL COMPANY	345	▼ -8%
127	MIT	343	▼ -15%
128	SIEMENS ENERGY AG	338	▲ 27%
129	CEA	337	▼ -12%
130	INTERDIGITAL	332	▲ 5%
131	EMERSON ELECTRIC CO.	330	▼ -3%
132	ZTE CORPORATION	327	▲ 46%
133	CORTEVA, INC.	324	▲ 9%
134	AISIN SEIKI CO., LTD.	323	▲ 10%
134	CHINESE ACADEMY OF SCIENCES	323	▲ 34%
136	FRAUNHOFER	312	▲ 21%
137	ALTRIA GROUP, INC.	311	▲ 17%
137	BECTON, DICKINSON AND COMPANY	311	■ 2%
137	HKC CORPORATION LIMITED	311	▲ 26%
137	PAYPAL HOLDINGS, INC.	311	▼ -5%
141	VISA INC.	308	■ 5%
142	NIDEC CORPORATION	307	▼ -2%
142	REALTEK SEMICONDUCTOR CORP.	307	▲ 22%
144	MASTERCARD INCORPORATED	303	▼ -12%
145	NISSAN MOTOR CO., LTD.	302	■ 3%
146	NIPPON STEEL CORPORATION	300	▲ 15%
147	ABBOTT LABORATORIES	297	▼ -17%
148	DELTA ELECTRONICS, INC.	295	▲ 18%
148	HAIER GROUP CORP.	295	▲ 9%
150	CARL-ZEISS-STIFTUNG	293	■ 0%

Rank	Organization	2022 Patents	Change from 2021
151	SAMSUNG SDI	290	▲ 5%
152	CNRS	289	▲ 6%
153	JUNIPER NETWORKS, INC.	287	▲ 6%
154	MAGNA INTERNATIONAL	284	▼ -1%
155	MAGIC LEAP, INC.	283	▲ 38%
156	EXXON MOBIL	281	▼ -8%
157	AAC TECHNOLOGIES HOLDINGS INC.	280	▼ -12%
157	ILLINOIS TOOL WORKS INC.	280	▼ -20%
159	NVIDIA CORPORATION	279	▼ -1%
160	YAZAKI CORPORATION	277	▼ -16%
161	TIANMA MICROELECTRONICS CO., LTD	276	▲ 6%
162	KONICA MINOLTA, INC.	275	▲ 10%
163	ARIZONA BOARD OF REGENTS	272	▲ 5%
164	SUBARU CORPORATION	271	▲ 35%
165	EATON CORPORATION	269	▼ -10%
166	TECHTRONIC INDUSTRIES COMPANY	268	▲ 9%
166	WHIRLPOOL CORPORATION	268	▲ 13%
168	ABB LTD	265	▲ 10%
168	NICHIA CORPORATION	265	▼ -9%
170	CUMMINS INC.	264	▼ -5%
170	TEXTRON INC.	264	▼ -16%
172	STATE FARM	262	▼ -9%
173	AB VOLVO	260	▲ 7%
173	OMRON CORPORATION	260	▼ -11%
173	TATA SONS LTD	260	▲ 13%
176	XEROX HOLDINGS CORPORATION	259	▼ -16%
177	ACCENTURE PLC	257	▼ -15%
177	TE CONNECTIVITY LTD.	257	▼ -5%
179	EBAY INC.	255	▼ -9%
180	NIELSEN HOLDINGS PLC	252	▲ 8%
181	SUMITOMO CHEMICAL COMPANY	251	▼ -3%
182	UNITED MICROELECTRONICS	249	■ 1%
183	JPMORGAN CHASE & CO.	247	▼ -5%
184	SEAGATE TECHNOLOGY PLC	246	▼ -1%
184	YAMAHA CORPORATION	246	▲ 12%
186	ASML HOLDING N.V.	244	▼ -15%
187	ANALOG DEVICES, INC.	243	▼ -6%
187	MAZDA MOTOR CORPORATION	243	▼ -6%
189	ROHM COMPANY LIMITED	242	▼ -17%
190	THERMO FISHER SCIENTIFIC	240	▼ -20%
191	MARVELL TECHNOLOGY GROUP	239	▼ -8%
191	SPLUNK INC.	239	▼ -3%
193	SHIMADZU CORPORATION	237	▼ -8%
194	KING FAHD UNIV OF PETRO. & MINER.	233	▲ 131%
194	LOREAL S.A.	233	■ 2%
196	ON SEMICONDUCTOR CORP.	231	▼ -10%
196	WINBOND ELECTRONICS	231	▲ 7%
198	NANYA TECHNOLOGY	229	▲ 53%
199	SERVICENOW	227	■ 4%
200	FRESENIUS SE & CO. KGAA	226	▲ 21%

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201	UNIVERSITY OF TEXAS SYSTEM	225	▼ -9%
202	DAIKIN INDUSTRIES, LTD.	223	▲ 19%
203	HON HAI PRECISION INDUSTRY CO.	222	▼ -7%
203	SHIN-ETSU CHEMICAL CO., LTD.	222	▬ 3%
205	STELLANTIS N.V.	220	▬ 1%
206	FUJI ELECTRIC CO LTD	219	▼ -18%
207	SNOWFLAKE INC.	218	▲ 38%
208	INNOLUX CORPORATION	213	▲ 28%
208	MASS GENERAL BRIGHAM	213	▼ -12%
210	COMPAGNIE DE SAINT-GOBAIN S.A.	212	▲ 7%
210	ITRI	212	▼ -19%
210	SANOFI S.A.	212	▼ -11%
210	SCHAEFFLER TECHNOLOGIES AG & CO.	212	▼ -14%
214	FG INNOVATION IP COMPANY LIMITED	210	▲ 25%
214	UBER TECHNOLOGIES, INC.	210	▲ 24%
216	DOLBY LABORATORIES, INC.	209	▲ 7%
217	mitsubishi chemical holdings	206	▼ -10%
218	HERE HOLDING CORP.	205	▬ 0%
218	KYNDRYL, INC.	205	▼ -44%
218	WAL-MART STORES, INC.	205	▼ -12%
221	APTIV PLC	204	▲ 45%
221	ASE TECHNOLOGY HOLDING CO., LTD.	204	▲ 15%
221	PURE STORAGE, INC.	204	▬ 2%
224	RENESAS ELECTRONICS	202	▼ -29%
225	DISH NETWORK CORPORATION	197	▬ 4%
225	SIGNIFY	197	▼ -33%
227	ASAHI KASEI CORPORATION	196	▼ -1%
227	CHARTER COMMUNICATIONS, INC.	196	▲ 11%
227	INTUITIVE SURGICAL, INC.	196	▬ 1%
230	ARISTOCRAT LEISURE LIMITED	194	▲ 11%
231	BAXTER INTERNATIONAL INC.	192	▼ -13%
231	PURDUE UNIVERSITY	192	▲ 6%
231	THALES SA	192	▼ -4%
234	PALANTIR TECHNOLOGIES	191	▲ 10%
235	SZ DJI TECHNOLOGY CO., LTD.	189	▼ -40%
236	CNH INDUSTRIAL N.V.	188	▲ 176%
236	OSRAM LICHT AG	188	▼ -28%
238	MERCK GROUP	187	▼ -10%
239	BERKSHIRE HATHAWAY	186	▼ -5%
239	ROCKWELL AUTOMATION, INC.	186	▲ 34%
241	KAWASAKI HEAVY INDUSTRIES LTD.	184	▬ 2%
241	SKYWORKS SOLUTIONS, INC.	184	▼ -2%
241	STANFORD UNIVERSITY	184	▼ -11%
244	WALT DISNEY COMPANY	182	▼ -27%
244	VALEO SA	182	▼ -24%
246	HARVARD UNIVERSITY	179	▼ -14%
246	KOMATSU LTD.	179	▼ -8%
248	DANAHER CORPORATION	178	▲ 13%
248	TORAY INDUSTRIES, INC.	178	▼ -11%
250	KING ABDULAZIZ UNIVERSITY	177	▼ -7%

Rank	Organization	2022 Patents	Change from 2021
250	NGK INSULATORS, LTD.	177	▲ 6%
252	BRISTOL MYERS SQUIBB	176	▼ -6%
253	SHANGHAI UNITED IMAGING HEALTH.	175	▲ 31%
254	CONTEMPORARY AMPEREX TECH	174	▲ 16%
255	TERUMO CORPORATION	173	▼ -2%
256	INTUIT INC.	172	▼ -12%
256	MINEBEAMITSUMI, INC.	172	▼ -5%
258	KLA CORPORATION	170	▬ 4%
259	RESMED	169	▲ 22%
260	JFE HOLDINGS, INC.	168	▬ 2%
261	OTIS WORLDWIDE CORPORATION	167	▼ -2%
262	SUMITOMO RUBBER INDUSTRIES, LTD.	166	▼ -25%
262	VESTAS WIND SYSTEMS A/S	166	▲ 20%
264	CIRRUS LOGIC, INC.	165	▲ 15%
265	CALIFORNIA INSTITUTE OF TECH	164	▼ -5%
266	BAE SYSTEMS PLC	163	▼ -20%
267	MOTOROLA SOLUTIONS, INC.	162	▼ -4%
268	MIDEA GROUP CO., LTD.	161	▲ 24%
269	BYTEDANCE LTD.	160	▲ 84%
270	CHINA ACADEMY OF TELECOMM	159	▲ 10%
270	HENKEL AG & CO. KGAA	159	▼ -17%
270	JOHNS HOPKINS UNIVERSITY	159	▬ 1%
273	RAMBUS INC.	158	▲ 6%
274	AB SKF	157	▼ -9%
274	AGC INC.	157	▼ -4%
274	SCHNEIDER ELECTRIC	157	▼ -9%
277	GOPRO, INC.	156	▼ -3%
277	NOVO NORDISK A/S	156	▼ -3%
277	SMITH & NEPHEW PLC	156	▼ -9%
280	AU OPTRONICS	155	▼ -25%
280	CORETRONIC CORPORATION	155	▲ 17%
280	SONOS, INC.	155	▼ -5%
283	BORGWARNER INC.	153	▼ -4%
284	BATTELLE MEMORIAL INSTITUTE	152	▬ 1%
284	MICHELIN SCA	152	▲ 6%
286	GLOBUS MEDICAL	151	▬ 3%
287	STANLEY BLACK & DECKER, INC.	150	▼ -2%
288	NESTLE S.A.	148	▲ 9%
288	SHENZHEN GOODIX TECHNOLOGY	148	▼ -12%
290	KAIST	147	▼ -5%
290	NIKON CORPORATION	147	▼ -15%
292	MAXLINEAR INC.	146	▼ -13%
292	WISTRON CORPORATION	146	▼ -10%
294	UNIVERSITY OF MICHIGAN	145	▼ -5%
295	SEOUL NATIONAL UNIVERSITY	144	▬ 0%
296	KUBOTA CORPORATION	143	▲ 10%
297	ZHEJIANG UNIVERSITY	142	▲ 133%
298	DISCO CORPORATION	141	▼ -16%
298	ECOLAB INC.	141	▼ -12%
300	ALARM.COM, INC	140	▬ 0%
300	FUJI CORPORATION	140	▲ 6%



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“IPO IS THE PREMIER CROSS-INDUSTRY VOICE. IT PROVIDES AN EXTREMELY BROAD NETWORK OF PROFESSIONALS TO BOUNCE IDEAS OFF AND TO LEARN FROM.”

– Krish Gupta, Dell Technologies

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SHAPE THE FUTURE OF IP

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The Patent 300® Dashboard provides interactivity with thousands of technologies, and over 30+ prosecution metrics for thousands of companies and law firms obtaining patents in the U.S.

USPTO Art Unit Group Description	Total Patents
Electrical Circuits and Systems	73778
Semiconductors/Memory	63120
Optics	53612
Printing/Measuring and Testing	46922
Multiple and VoIP	40188
Thermal & Combustion Technology	32864
Motor & Fluid Power Systems	23710
Cryptography and Security	23279
Selective Visual Display Systems	23279
Computer Networks	22961
Material and Article Handling	22401
Total	992038

CPC Subclass Description	Total Patents
Electric Digital Data Processing	102781
Semiconductor Devices: Electric Solid State Devices Not Otherwise Provided For	58337
Transmission Of Digital Information, E.G. Telegraphic Communication	55094
Wireless Communication Networks	33041
Diagnostic Surgery Identification	31127
Pictorial Communication, E.G. Television	30176
Preparations For Medical, Dental, Or Toilet Purposes	28377
Data Processing Systems Or Methods, Specially Adapted For Administrative	18286
Total	992038

Company Name	Rank	Total Patents	Average OAs	Average RCEs	Pendency (Days)	Interview Success	Extension Per OA	Pre-Appeal Success
INTERNATIONAL BUSINESS MACHINES CORP.	1	10000	1.8	0.5	922.8	37.3%	5.79%	
SAMSUNG ELECTRONICS CO., LTD.	2	10000	2.0	0.5	969.9	34.4%	6.62%	
CANON INC.	3	10037	1.6	0.5	864.1	42.3%	20.69%	
INTEL CORPORATION	4	11351	1.9	0.4	1032.6	41.7%	18.47%	
ALPHABET INC.	5	8621	1.8	0.5	981.0	32.8%	11.12%	
MICROSOFT CORPORATION	5	8621	2.4	0.8	1193.8	39.2%	18.99%	
3M ELECTRONICS INC.	7	8407	1.8	0.4	1093.4	39.6%	24.07%	
GENERAL ELECTRIC COMPANY	8	8353	1.8	0.4	1189.7	41.4%	13.84%	
TOYOTA MOTOR CORPORATION	9	7922	1.9	0.5	1020.7	28.0%	7.56%	
QUALCOMM, INC.	10	7817	2.3	0.8	1040.9	35.1%	9.40%	
SONY CORPORATION	11	7618	1.7	0.7	1158.3	32.1%	7.99%	
HUAWEI INVESTMENT & HOLDING CO., LTD.	12	7500	1.5	0.5	896.4	38.9%	7.30%	
TAIWAN SEMICONDUCTOR MFG. CO. LTD.	13	7548	1.8	0.4	780.3	34.5%	17.27%	
APPLE INC.	14	7293	1.8	0.5	1000.0	35.3%	23.32%	
AMAZON.COM, INC.	15	7003	1.8	0.5	1129.3	32.2%	22.48%	
UNITED TECHNOLOGIES CORPORATION	16	6946	1.6	0.4	1054.2	48.0%	6.74%	
HONDA MOTOR COMPANY	17	6856	1.6	0.5	911.2	38.1%	8.88%	
DELL TECHNOLOGIES INC.	18	6517	1.9	0.5	1070.0	35.1%	18.95%	
ROHM ELECTRONIC CORPORATION	19	5907	1.4	0.5	953.3	27.5%	10.98%	
BOE TECHNOLOGY GROUP CO. LTD.	20	5633	1.7	0.4	1000.9	47.0%	3.0%	
TELEFONAKTIEBOLAGET LM ERICSSON	21	4802	1.9	0.4	1044.2	35.6%	8.33%	
SIEMENS AG	22	4708	1.7	0.4	1206.6	40.6%	8.59%	
HYUNDAI MOTOR COMPANY	23	4659	1.5	0.5	820.0	48.0%	6.59%	
TOSHIBA CORPORATION	24	4617	1.4	0.5	853.3	41.7%	14.27%	
HITACHI, LTD.	25	4469	1.4	0.5	1281.9	43.4%	17.82%	
Total	1	992027	1.7	0.4	1055.6	39.6%	16.14%	

The interactive Patent 300® Dashboard provides **in-house counsel, law firm partners, marketing professionals, c-suite executives, and others** with a detailed analysis of the **world’s technology leaders**. Interact with data on issued U.S. patents and **find the insights that you need** for patent portfolio analysis, outside counsel analytics, patent prosecution insights, technology area breakdowns, and portfolio cost and budget analytics.

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300	ALARM.COM, INC	140	0%
103	ALIBABA GROUP HOLDING LIMITED	418	37%
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52	APPLIED MATERIALS, INC.	793	5%
221	APTIV PLC	204	45%
230	ARISTOCRAT LEISURE LIMITED	194	11%
163	ARIZONA BOARD OF REGENTS	272	5%
227	ASAHI KASEI CORPORATION	196	-1%
221	ASE TECHNOLOGY HOLDING CO., LTD.	204	15%
186	ASML HOLDING N.V.	244	-15%
47	AT&T INC.	911	-15%
280	AU OPTRONICS	155	-25%
266	BAE SYSTEMS PLC	163	-20%
73	BAIDU, INC.	618	43%
123	BAKER HUGHES COMPANY	350	-11%
75	BANK OF AMERICA CORPORATION	608	19%
105	BASF SE	412	-16%
284	BATTELLE MEMORIAL INSTITUTE	152	1%
231	BAXTER INTERNATIONAL INC.	192	-13%
85	BAYER AG	508	4%
120	BAYERISCHE MOTOREN WERKE AG	361	10%
41	BBK ELECTRONICS CORPORATION	1004	27%
137	BECTON, DICKINSON AND COMPANY	311	2%
239	BERKSHIRE HATHAWAY	186	-5%
8	BOE TECHNOLOGY GROUP CO.	2725	27%
36	BOEING COMPANY	1117	-14%
283	BORGWARNER INC.	153	-4%
88	BOSTON SCIENTIFIC CORPORATION	494	-7%
252	BRISTOL MYERS SQUIBB	176	-6%
63	BROTHER INDUSTRIES, LTD.	659	10%
269	BYTEDANCE LTD.	160	84%
265	CALIFORNIA INSTITUTE OF TECH	164	-5%
5	CANON K.K.	3046	-10%

Rank	Organization	2022 Patents	Change from 2021
59	CAPITAL ONE FINANCIAL	708	1%
150	CARL-ZEISS-STIFTUNG	293	0%
90	CATERPILLAR INC.	482	1%
129	CEA	337	-12%
227	CHARTER COMMUNICATIONS, INC.	196	11%
270	CHINA ACADEMY OF TELECOMM	159	10%
134	CHINESE ACADEMY OF SCIENCES	323	34%
264	CIRRUS LOGIC, INC.	165	15%
46	CISCO SYSTEMS, INC.	962	-5%
122	CITRIX SYSTEMS, INC.	354	27%
236	CNH INDUSTRIAL N.V.	188	176%
152	CNRS	289	6%
104	COMCAST CORPORATION	413	17%
72	COMMSCOPE INC.	624	30%
210	COMPAGNIE DE SAINT-GOBAIN S.A.	212	7%
254	CONTEMPORARY AMPEREX TECH	174	16%
93	CONTINENTAL AG	459	1%
280	CORETRONIC CORPORATION	155	17%
89	CORNING INCORPORATED	483	13%
133	CORTEVA, INC.	324	9%
170	CUMMINS INC.	264	-5%
202	DAIKIN INDUSTRIES, LTD.	223	19%
248	DANAHER CORPORATION	178	13%
96	DEERE & COMPANY	452	4%
13	DELL TECHNOLOGIES	2445	19%
148	DELTA ELECTRONICS, INC.	295	18%
38	DENSO CORPORATION	1027	-8%
94	DEUTSCHE TELEKOM AG	457	10%
298	DISCO CORPORATION	141	-16%
225	DISH NETWORK CORPORATION	197	4%
216	DOLBY LABORATORIES, INC.	209	7%
126	DOW CHEMICAL COMPANY	345	-8%
165	EATON CORPORATION	269	-10%
179	EBAY INC.	255	-9%
298	ECOLAB INC.	141	-12%
131	EMERSON ELECTRIC CO.	330	-3%
115	ETRI	380	-8%
156	EXXON MOBIL	281	-8%
101	FANUC CORPORATION	422	5%
214	FG INNOVATION IP COMPANY LIMITED	210	25%
27	FORD MOTOR COMPANY	1342	-20%
136	FRAUNHOFER	312	21%
200	FRESENIUS SE & CO. KGAA	226	21%
300	FUJI CORPORATION	140	6%
206	FUJI ELECTRIC CO LTD	219	-18%
24	FUJIFILM HOLDINGS CORP	1360	-7%
67	FUJITSU LIMITED	652	-18%
28	GENERAL ELECTRIC COMPANY	1327	-15%
57	GENERAL MOTORS COMPANY	734	-3%
286	GLOBUS MEDICAL	151	3%

2022 Patent Owners

Alphabetical Listing

The total number of patents granted by the USPTO in 2022 was 323,018, down 1 percent from 2021. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2021 and 2022, and many other factors. New organizations on the list are provided on page 9.

Rank	Organization	2022 Patents	Change from 2021
277	GOPRO, INC.	156	▼ -3%
148	HAIER GROUP CORP.	295	▲ 9%
44	HALLIBURTON COMPANY	963	▲ 5%
246	HARVARD UNIVERSITY	179	▼ -14%
270	HENKEL AG & CO. KGAA	159	▼ -17%
218	HERE HOLDING CORP.	205	▬ 0%
84	HEWLETT PACKARD ENTERPRISE	511	▼ -4%
26	HEWLETT-PACKARD COMPANY	1348	▲ 35%
20	HITACHI, LTD.	1557	▬ 3%
137	HKC CORPORATION LIMITED	311	▲ 26%
203	HON HAI PRECISION INDUSTRY CO.	222	▼ -7%
25	HONDA MOTOR COMPANY, LTD.	1351	▲ 11%
56	HONEYWELL INTERNATIONAL INC.	750	▼ -20%
7	HUAWEI TECHNOLOGIES CO., LTD.	3023	▬ 3%
19	HYUNDAI MOTOR COMPANY	1786	▲ 20%
157	ILLINOIS TOOL WORKS INC.	280	▼ -20%
64	INFINEON TECHNOLOGIES AG	657	▼ -4%
208	INNOLUX CORPORATION	213	▲ 28%
12	INTEL CORPORATION	2501	▼ -9%
130	INTERDIGITAL	332	▲ 5%
2	INTERNATIONAL BUSINESS MACHINES	4743	▼ -44%
256	INTUIT INC.	172	▼ -12%
227	INTUITIVE SURGICAL, INC.	196	▬ 1%
210	ITRI	212	▼ -19%
112	JAPAN DISPLAY INC.	385	▲ 6%
260	JFE HOLDINGS, INC.	168	▬ 2%
270	JOHNS HOPKINS UNIVERSITY	159	▬ 1%
23	JOHNSON & JOHNSON	1377	▼ -11%
116	JOHNSON CONTROLS INTERNATIONAL	374	▼ -3%
183	JPMORGAN CHASE & CO.	247	▼ -5%
153	JUNIPER NETWORKS, INC.	287	▲ 6%
290	KAIST	147	▼ -5%
241	KAWASAKI HEAVY INDUSTRIES LTD.	184	▬ 2%
250	KING ABDULAZIZ UNIVERSITY	177	▼ -7%
194	KING FAHD UNIV OF PETRO. & MINER.	233	▲ 131%
71	KIOXIA HOLDINGS CORPORATION	625	▼ -7%
258	KLA CORPORATION	170	▬ 4%
246	KOMATSU LTD.	179	▼ -8%
162	KONICA MINOLTA, INC.	275	▲ 10%
49	KONINKLIJKE PHILIPS N.V.	840	▼ -8%
296	KUBOTA CORPORATION	143	▲ 10%
218	KYNDRYL, INC.	205	▼ -44%
50	KYOCERA CORPORATION	815	▼ -2%
70	LENOVO GROUP LIMITED	632	▲ 10%
3	LG CORPORATION	4580	▲ 5%
194	LOREAL S.A.	233	▬ 2%
155	MAGIC LEAP, INC.	283	▲ 38%
154	MAGNA INTERNATIONAL	284	▼ -1%
191	MARVELL TECHNOLOGY GROUP	239	▼ -8%
208	MASS GENERAL BRIGHAM	213	▼ -12%

Rank	Organization	2022 Patents	Change from 2021
144	MASTERCARD INCORPORATED	303	▼ -12%
292	MAXLINEAR INC.	146	▼ -13%
187	MAZDA MOTOR CORPORATION	243	▼ -6%
107	MEDIATEK INC.	408	▼ -1%
29	MEDTRONIC PLC	1306	▲ 12%
238	MERCK GROUP	187	▼ -10%
42	META PLATFORMS, INC.	995	▼ -17%
284	MICHELIN SCA	152	▲ 6%
17	MICRON TECHNOLOGY INC.	1921	▲ 7%
18	MICROSOFT CORPORATION	1888	▼ -25%
268	MIDEA GROUP CO., LTD.	161	▲ 24%
256	MINEBEAMITSUMI, INC.	172	▼ -5%
127	MIT	343	▼ -15%
217	mitsubishi chemical holdings	206	▼ -10%
30	MITSUBISHI ELECTRIC CORPORATION	1277	▼ 0%
83	MITSUBISHI HEAVY INDUSTRIES, LTD.	522	▼ -2%
267	MOTOROLA SOLUTIONS, INC.	162	▼ -4%
118	MUBADALA INVESTMENT COMPANY	369	▼ -4%
40	MURATA MANUFACTURING CO., LTD.	1007	▲ 17%
198	NANYA TECHNOLOGY	229	▲ 53%
39	NEC CORPORATION	1013	▲ 9%
288	NESTLE S.A.	148	▲ 9%
250	NGK INSULATORS, LTD.	177	▲ 6%
168	NICHIA CORPORATION	265	▼ -9%
142	NIDEC CORPORATION	307	▼ -2%
180	NIELSEN HOLDINGS PLC	252	▲ 8%
111	NIKE, INC.	388	▼ -3%
290	NIKON CORPORATION	147	▼ -15%
146	NIPPON STEEL CORPORATION	300	▲ 15%
50	NIPPON TELEGRAPH & TELEPHONE	815	▲ 89%
145	NISSAN MOTOR CO., LTD.	302	▬ 3%
60	NOKIA CORPORATION	694	▼ 0%
277	NOVO NORDISK A/S	156	▼ -3%
159	NVIDIA CORPORATION	279	▼ -1%
91	NXP SEMICONDUCTORS N.V.	471	▼ -2%
108	OLYMPUS CORPORATION	407	▼ -20%
173	OMRON CORPORATION	260	▼ -11%
196	ON SEMICONDUCTOR CORP.	231	▼ -10%
55	ORACLE CORPORATION	759	▲ 10%
236	OSRAM LICHT AG	188	▼ -28%
261	OTIS WORLDWIDE CORPORATION	167	▼ -2%
234	PALANTIR TECHNOLOGIES	191	▲ 10%
21	PANASONIC CORPORATION	1521	▼ -11%
137	PAYPAL HOLDINGS, INC.	311	▼ -5%
69	PORSCHE AUTOMOBIL HOLDING SE	633	▼ -8%
100	PROCTER & GAMBLE COMPANY	433	▼ -20%
231	PURDUE UNIVERSITY	192	▲ 6%
221	PURE STORAGE, INC.	204	▬ 2%
10	QUALCOMM	2656	▲ 22%
273	RAMBUS INC.	158	▲ 6%

2022 Patent Owners

Alphabetical Listing

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Rank	Organization	2022 Patents	Change from 2021
9	RAYTHEON TECHNOLOGIES	2684	0%
142	REALTEK SEMICONDUCTOR CORP.	307	22%
224	RENESAS ELECTRONICS	202	-29%
259	RESMED	169	22%
61	RICOH COMPANY LTD.	676	-13%
33	ROBERT BOSCH GMBH	1190	17%
120	ROCHE HOLDING AG	361	-24%
239	ROCKWELL AUTOMATION, INC.	186	34%
189	ROHM COMPANY LIMITED	242	-17%
92	ROLLS-ROYCE HOLDINGS PLC	464	-13%
81	SAFRAN S.A.	560	2%
68	SALESFORCE.COM, INC.	634	7%
94	SAMSUNG ELECTRO-MECHANICS	457	-5%
1	SAMSUNG ELECTRONICS CO., LTD.	8513	0%
151	SAMSUNG SDI	290	5%
210	SANOFI S.A.	212	-11%
65	SAP SE	656	4%
44	SAUDI ARABIAN OIL COMPANY	963	12%
210	SCHAEFFLER TECHNOLOGIES AG & CO.	212	-14%
274	SCHNEIDER ELECTRIC	157	-9%
184	SEAGATE TECHNOLOGY PLC	246	-1%
32	SEIKO EPSON CORPORATION	1241	1%
105	SEMICONDUCTOR ENERGY LAB	412	-13%
295	SEOUL NATIONAL UNIVERSITY	144	0%
199	SERVICENOW	227	4%
253	SHANGHAI UNITED IMAGING HEALTH.	175	31%
66	SHARP CORPORATION	653	-24%
288	SHENZHEN GOODIX TECHNOLOGY	148	-12%
193	SHIMADZU CORPORATION	237	-8%
203	SHIN-ETSU CHEMICAL CO., LTD.	222	3%
35	SIEMENS AG	1123	10%
128	SIEMENS ENERGY AG	338	27%
225	SIGNIFY	197	-33%
31	SK GROUP	1254	16%
241	SKYWORKS SOLUTIONS, INC.	184	-2%
117	SLB	372	-14%
277	SMITH & NEPHEW PLC	156	-9%
99	SNAP INC.	437	24%
207	SNOWFLAKE INC.	218	38%
79	SOFTBANK GROUP CORP.	565	-3%
280	SONOS, INC.	155	-5%
11	SONY CORPORATION	2638	1%
191	SPLUNK INC.	239	-3%
241	STANFORD UNIVERSITY	184	-11%
287	STANLEY BLACK & DECKER, INC.	150	-2%
172	STATE FARM	262	-9%
113	STATE UNIVERSITY SYSTEM OF FL	384	-9%
205	STELLANTIS N.V.	220	1%
77	STMICROELECTRONICS	587	-4%
97	STRYKER CORPORATION	444	-8%

Rank	Organization	2022 Patents	Change from 2021
164	SUBARU CORPORATION	271	35%
181	SUMITOMO CHEMICAL COMPANY	251	-3%
74	SUMITOMO ELECTRIC INDUSTRIES	611	-13%
262	SUMITOMO RUBBER INDUSTRIES, LTD.	166	-25%
235	SZ DJI TECHNOLOGY CO., LTD.	189	-40%
6	TAIWAN SEMICONDUCTOR MFG. CO.	3038	8%
173	TATA SONS LTD	260	13%
36	TCL CORPORATION	1117	33%
76	TDK CORPORATION	594	11%
177	TE CONNECTIVITY LTD.	257	-5%
166	TECHTRONIC INDUSTRIES COMPANY	268	9%
22	TELEFONAKTIEBOLAGET L MERICSSON	1419	1%
53	TENCENT HOLDINGS LTD	789	24%
255	TERUMO CORPORATION	173	-2%
48	TEXAS INSTRUMENTS INCORPORATED	910	-6%
170	TEXTRON INC.	264	-16%
231	THALES SA	192	-4%
190	THERMO FISHER SCIENTIFIC	240	-20%
161	TIANMA MICROELECTRONICS CO., LTD	276	6%
79	TOKYO ELECTRON LIMITED	565	21%
248	TORAY INDUSTRIES, INC.	178	-11%
34	TOSHIBA CORPORATION	1126	3%
4	TOYOTA JIDOSHA K.K.	3056	11%
114	TSINGHUA HOLDINGS	382	6%
214	UBER TECHNOLOGIES, INC.	210	24%
182	UNITED MICROELECTRONICS	249	1%
78	UNIVERSITY OF CALIFORNIA	570	-15%
294	UNIVERSITY OF MICHIGAN	145	-5%
201	UNIVERSITY OF TEXAS SYSTEM	225	-9%
43	US FEDERAL GOVERNMENT	973	-8%
125	USAA	346	13%
244	VALEO SA	182	-24%
61	VERIZON COMMUNICATIONS INC.	676	-3%
262	VESTAS WIND SYSTEMS A/S	166	20%
141	VISA INC.	308	5%
54	VMWARE, INC.	762	-18%
218	WAL-MART STORES, INC.	205	-12%
244	WALT DISNEY COMPANY	182	-27%
109	WELLS FARGO & COMPANY	403	4%
58	WESTERN DIGITAL CORPORATION	733	-4%
166	WHIRLPOOL CORPORATION	268	13%
196	WINBOND ELECTRONICS	231	7%
292	WISTRON CORPORATION	146	-10%
176	XEROX HOLDINGS CORPORATION	259	-16%
87	XIAOMI INC.	503	33%
110	XPERI HOLDING CORPORATION	389	-2%
184	YAMAHA CORPORATION	246	12%
160	YAZAKI CORPORATION	277	-16%
124	ZF FRIEDRICHSHAFEN AG	347	3%
297	ZHEJIANG UNIVERSITY	142	133%
132	ZTE CORPORATION	327	46%

Top 5 Movers in the Patent 300®

Rank	Organization	2022 Patents	Change from 2021
236	CNH INDUSTRIAL N.V.	188	176%
297	ZHEJIANG UNIVERSITY	142	133%
194	KING FAHD UNIV OF PETRO. & MINER.	233	131%
50	NIPPON TELEGRAPH & TELEPHONE	815	89%
269	BYTEDANCE LTD.	160	84%

New Organizations in the Patent 300®

- ❖ The following organizations are new to this year's list:

KING FAHD UNIV OF PETRO. & MINER. (#194), STELLANTIS N.V. (#205), APTIV PLC (#221), ROCKWELL AUTOMATION, INC. (#239), SHANGHAI UNITED IMAGING HEALTH. (#253), RESMED (#259), VESTAS WIND SYSTEMS A/S (#262), CIRRUS LOGIC, INC. (#264), CHINA ACADEMY OF TELECOMM (#270), CORETRONIC CORPORATION (#280), MICHELIN SCA (#284), GLOBUS MEDICAL (#286), NESTLE S.A. (#288), MAXLINEAR INC. (#292), SEOUL NATIONAL UNIVERSITY (#295), KUBOTA CORPORATION (#296), ZHEJIANG UNIVERSITY (#297), FUJI CORPORATION (#300), ALARM.COM, INC (#300)

END NOTES:

1. The number of patents granted does not necessarily indicate the value of a company's technology, the effectiveness of its R&D, or whether it will be profitable. The number of patents per company varies widely from industry to industry and from company to company within an industry.
2. This report was compiled by [Harrity Analytics](#) from patent data provided by the U.S. Patent and Trademark Office. Patents reported are utility patents granted during calendar year 2022 that listed the organization or a subsidiary as the owner on the printed patent document. Using organization and subsidiary data provided to two independent third-party data providers, over 200,000 assignments were reviewed to attribute ownership to the correct organization, where applicable. Patents that were granted to two or more organizations jointly are attributed to each organization separately. Companies for which patents were granted to subsidiaries are combined with patents granted to the parent.
3. IPO has published this report annually since 1984 as a service to its members. For annual lists, go to <https://www.ipso.org/index.php/resources/>.
4. This report, published by IPO and Harrity Analytics, was prepared by Harrity Analytics using patent data provided by the U.S. Patent and Trademark Office and information contributed by IPO members. It should not be construed as representing an endorsement, warranty, or guarantee by either IPO or Harrity Analytics of the other party's products or services.
5. For next year's list, IPO will include patents of majority-owned subsidiaries under the name of the parent if the parent provides the names of such subsidiaries to IPO at info@ipso.org by December 15, 2023.