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Top 300 Organizations Granted U.S. Patents in 2023

41st Annual Listing

This list of organizations that received the most U.S. utility patents is being published by IPO for the 41st 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 2023, visit the [Patent 300® website](#) for an interactive dashboard.

January 18, 2024

2023 Patent Owners

Numerical Listing

The total number of patents granted by the USPTO in 2023 was 312,486, down 3 percent from 2022. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2022 and 2023, and many other factors. New organizations on the list are provided on page 9.

Rank	Organization	2023 Patents	Change from 2022
1	SAMSUNG ELECTRONICS CO., LTD.	9036	▲ 5%
2	LG CORPORATION	4170	▼ -9%
3	INTERNATIONAL BUSINESS MACHINES	3953	▼ -15%
4	QUALCOMM	3886	▲ 46%
5	TAIWAN SEMICONDUCTOR MFG. CO.	3719	▲ 22%
6	CANON K.K.	3199	▲ 5%
7	TOYOTA JIDOSHA K.K.	2667	▼ -12%
8	ALPHABET INC.	2579	▲ 23%
9	APPLE INC.	2568	▲ 11%
10	HUAWEI TECHNOLOGIES CO., LTD.	2290	▼ -24%
11	MICRON TECHNOLOGY INC.	2267	▲ 22%
12	INTEL CORPORATION	2263	▼ -9%
13	RTX CORPORATION	2144	▼ -11%
14	SONY CORPORATION	2057	▼ -22%
15	HYUNDAI MOTOR COMPANY	2052	▲ 14%
16	DELL TECHNOLOGIES	2010	▼ -18%
17	MICROSOFT CORPORATION	1927	▼ -1%
18	AMAZON.COM, INC.	1857	▼ -12%
19	BOE TECHNOLOGY GROUP CO., LTD.	1695	▼ -38%
20	JOHNSON & JOHNSON	1489	▲ 8%
21	MEDTRONIC PLC	1379	▲ 6%
22	FORD MOTOR COMPANY	1306	▼ -4%
23	PANASONIC CORPORATION	1277	▼ -15%
24	SK GROUP	1206	▼ -12%
24	TELEFONAKTIEBOLAGET LM ERICSSON	1206	▼ -15%
26	GENERAL ELECTRIC COMPANY	1164	▼ -1%
27	SEIKO EPSON CORPORATION	1143	▼ -8%
28	HONDA MOTOR COMPANY, LTD.	1142	▼ -16%
29	FUJIFILM HOLDINGS CORP	1133	▼ -17%
30	HITACHI, LTD.	1086	▼ -30%
31	SAUDI ARABIAN OIL COMPANY	1033	▲ 7%
32	CAPITAL ONE FINANCIAL	1029	▲ 45%
33	TOSHIBA CORPORATION	986	▼ -13%
34	TEXAS INSTRUMENTS	978	▲ 7%
35	ROBERT BOSCH GMBH	976	▼ -18%
36	APPLIED MATERIALS, INC.	949	▲ 20%
37	SIEMENS AG	942	▼ -15%
38	US FEDERAL GOVERNMENT	935	▼ -4%
39	CISCO SYSTEMS, INC.	933	▼ -3%
40	BROADCOM INC.	932	▲ 13%
41	META PLATFORMS, INC.	919	▼ -8%
42	MURATA MANUFACTURING CO.	898	▼ -14%
43	NEC CORPORATION	888	▼ -13%
44	HONEYWELL INTERNATIONAL INC.	880	▲ 15%
45	GENERAL MOTORS COMPANY	870	▲ 19%
46	MITSUBISHI ELECTRIC CORPORATION	861	▼ -33%
47	BOEING COMPANY	845	▼ -24%
48	ORACLE CORPORATION	812	▲ 7%
49	NIPPON TELEGRAPH & TELEPHONE	773	▼ -5%
50	DENSO CORPORATION	743	▼ -27%

Rank	Organization	2023 Patents	Change from 2022
51	HALLIBURTON COMPANY	739	▼ -24%
52	KYOCERA CORPORATION	717	▼ -12%
53	INFINEON TECHNOLOGIES AG	716	▲ 7%
54	TENCENT HOLDINGS LTD	702	▼ -11%
55	HEWLETT-PACKARD COMPANY	691	▼ -50%
56	STMICROELECTRONICS	689	▲ 17%
57	KIOXIA HOLDINGS CORPORATION	687	▲ 10%
58	T-MOBILE / DEUTSCHE TELEKOM AG	680	▲ 7%
59	WESTERN DIGITAL CORPORATION	674	▼ -8%
60	SNAP INC.	658	▲ 51%
61	NOKIA CORPORATION	651	▼ -6%
61	KONINKLIJKE PHILIPS N.V.	651	▼ -21%
63	SALESFORCE.COM, INC.	646	■ 1%
64	BANK OF AMERICA CORPORATION	644	▲ 6%
65	COMMSCOPE INC.	638	■ 2%
66	BROTHER INDUSTRIES, LTD.	637	▼ -3%
67	BAIDU, INC.	626	■ 1%
68	TDK CORPORATION	604	▼ -4%
69	RICOH COMPANY LTD.	576	▼ -15%
70	ADEIA INC.	554	▲ 27%
71	TOKYO ELECTRON LIMITED	551	▼ -2%
72	AT&T INC.	547	▼ -35%
73	UNIVERSITY OF CALIFORNIA	546	▼ -4%
74	CORNING INCORPORATED	544	▲ 13%
75	VERIZON COMMUNICATIONS INC.	540	▼ -2%
76	WELLS FARGO & COMPANY	537	▲ 32%
77	LENOVO GROUP LIMITED	530	▼ -16%
78	COMCAST CORPORATION	529	▲ 28%
79	PORSCHE AUTOMOBIL HOLDING SE	521	▼ -20%
79	JAPAN DISPLAY INC.	521	▲ 35%
79	FUJITSU LIMITED	521	▼ -20%
82	STRYKER CORPORATION	520	▲ 15%
83	SAP SE	519	▼ -21%
84	OPPO MOBILE TELECOMM	516	▼ -32%
85	TCL CORPORATION	515	▼ -54%
86	AIRBUS SE	512	▼ -3%
87	BECTON, DICKINSON AND COMPANY	511	▲ 22%
88	ADVANCED MICRO DEVICES, INC.	508	▲ 9%
89	HEWLETT PACKARD ENTERPRISE	503	▼ -3%
90	SAFRAN S.A.	502	▼ -10%
90	SAMSUNG ELECTRO-MECHANICS	502	▲ 10%
92	CATERPILLAR INC.	500	■ 4%
93	SHARP CORPORATION	498	▼ -24%
94	DEERE & COMPANY	497	▲ 9%
95	NVIDIA CORPORATION	494	▲ 77%
96	BOSTON SCIENTIFIC CORPORATION	491	▼ -1%
97	PROCTER & GAMBLE COMPANY	489	▲ 13%
98	ADOBE INC.	481	▲ 15%
99	SEMICONDUCTOR ENERGY LAB	475	▲ 16%
100	NIKE, INC.	464	▲ 20%

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101	XIAOMI INC.	461	-7%
102	SUMITOMO ELECTRIC INDUSTRIES	445	-27%
103	JOHNSON CONTROLS	431	5%
104	3M COMPANY	429	-16%
105	ROCHE HOLDING AG	428	10%
106	NXP SEMICONDUCTORS N.V.	426	-10%
107	SLB	423	13%
108	ETRI	399	6%
109	USAA	393	14%
110	STATE UNIV SYSTEM OF FLORIDA	391	1%
111	MEDIATEK INC.	388	-6%
112	ZF FRIEDRICHSHAFEN AG	379	-1%
113	ROLLS-ROYCE HOLDINGS PLC	378	-19%
114	BAKER HUGHES COMPANY	377	-5%
115	TSINGHUA HOLDINGS	372	-3%
116	INTERDIGITAL	369	9%
117	MIT	365	6%
118	VISA INC.	357	16%
119	ELLIOTT MANAGEMENT	354	35%
120	SPLUNK INC.	352	47%
121	ZTE CORPORATION	351	-14%
122	ECHOSTAR CORPORATION	350	37%
122	BYTEDANCE LTD.	350	119%
124	ABBOTT LABORATORIES	345	-7%
125	MUBADALA INVESTMENT	343	-7%
126	CORTEVA, INC.	342	5%
127	WHIRLPOOL CORPORATION	338	26%
128	BASF SE	333	-18%
129	MAGNA INTERNATIONAL	332	17%
130	TECHTRONIC INDUSTRIES	331	24%
130	ILLINOIS TOOL WORKS INC.	331	19%
132	BAYER AG	322	-36%
133	MITSUBISHI HEAVY INDUSTRIES	321	-39%
134	MAGIC LEAP, INC.	320	13%
134	STATE FARM	320	22%
136	PAYPAL HOLDINGS, INC.	317	2%
137	ALTRIA GROUP, INC.	314	0%
138	UNITED MICROELECTRONICS	313	26%
139	DELTA ELECTRONICS, INC.	308	4%
140	NISSAN MOTOR CO., LTD.	305	-4%
141	AB VOLVO	302	16%
142	TEXTRON INC.	301	14%
143	TIANMA MICROELECTRONICS	295	7%
144	MASTERCARD INCORPORATED	294	-3%
145	INNOLUX CORPORATION	293	37%
145	NANYA TECHNOLOGY	293	28%
147	REALTEK SEMICONDUCTOR CORP.	288	-8%
148	OLYMPUS CORPORATION	284	-28%
149	FRAUNHOFER	282	-8%
150	CLOUD SOFTWARE GROUP	281	-22%

Rank	Organization	2023 Patents	Change from 2022
151	EBAY INC.	279	9%
151	JUNIPER NETWORKS, INC.	279	-3%
151	SUBARU CORPORATION	279	3%
154	ABB LTD	274	1%
155	CUMMINS INC.	272	3%
156	NICHIA CORPORATION	271	2%
157	CHINESE ACADEMY OF SCIENCES	270	-15%
158	EMERSON ELECTRIC CO.	268	3%
158	FANUC CORPORATION	268	-36%
160	GLOBALFOUNDRIES INC.	267	-3%
160	XEROX HOLDINGS CORPORATION	267	8%
162	WAL-MART STORES, INC.	266	23%
162	CARRIER GLOBAL CORPORATION	266	-6%
164	CONTEMPORARY AMPEREX TECH	265	24%
165	MARVELL TECHNOLOGY GROUP LTD.	263	5%
166	ROHM COMPANY LIMITED	262	8%
166	SAMSUNG SDI	262	-10%
168	CNH INDUSTRIAL N.V.	260	-16%
169	DOW CHEMICAL COMPANY	259	-25%
169	SOFTBANK GROUP CORP.	259	-30%
169	THERMO FISHER SCIENTIFIC	259	7%
172	VIVO MOBILE COMMUNICATIONS	258	7%
173	ANALOG DEVICES, INC.	257	4%
173	CARL-ZEISS-STIFTUNG	257	-17%
175	DANAHER CORPORATION	256	0%
176	HAIER GROUP CORP.	253	-14%
177	PURE STORAGE, INC.	252	24%
178	CEA	251	-26%
179	DAIKIN INDUSTRIES, LTD.	250	12%
179	BAYERISCHE MOTOREN WERKE AG	250	-31%
179	INTUIT INC.	250	45%
182	ASML HOLDING N.V.	248	2%
182	RUILI INTEGRATED CIRCUIT CO., LTD.	248	188%
184	ARIZONA BOARD OF REGENTS	245	-10%
185	EATON CORPORATION	244	-9%
186	SKYWORKS SOLUTIONS, INC.	243	32%
187	INTUITIVE SURGICAL, INC.	240	22%
187	OPENTEXT CORPORATION	240	11%
189	JPMORGAN CHASE & CO.	239	-4%
189	SUMITOMO CHEMICAL COMPANY	239	-5%
189	ITRI	239	13%
192	EXXON MOBIL	238	-15%
193	UNIVERSITY OF TEXAS SYSTEM	236	5%
193	GLOBUS MEDICAL	236	11%
195	CONTINENTAL AG	235	-23%
196	TE CONNECTIVITY LTD.	234	-9%
197	SIEMENS ENERGY AG	230	-32%
198	MASS GENERAL BRIGHAM	227	7%
199	BERKSHIRE HATHAWAY	226	11%
200	FNCSSR	224	-22%

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200	APTIV PLC	224	▲ 10%	251	CIRRUS LOGIC, INC.	169	■ 2%
202	CHARTER COMMUNICATIONS, INC.	223	▲ 14%	252	SCHAEFFLER TECHNOLOGIES	168	▼ -21%
203	OMRON CORPORATION	221	▼ -15%	252	AURORA INNOVATION, INC.	168	▲ 11%
204	KING FAHD UNIV OF PETRO. & MINER.	216	▼ -7%	252	AMS-OSRAM AG	168	▼ -23%
204	SNOWFLAKE INC.	216	▼ -2%	255	LOREAL S.A.	167	▼ -28%
206	ARISTOCRAT LEISURE LIMITED	213	▲ 9%	255	ON SEMICONDUCTOR CORP.	167	▼ -21%
207	ALIBABA GROUP HOLDING LIMITED	212	▼ -49%	257	INTERNATIONAL GAME TECHNOLOGY	166	▲ 44%
207	TATA SONS LTD	212	▼ -18%	258	HKC CORPORATION LIMITED	164	▼ -47%
209	ASAHI KASEI CORPORATION	211	▼ -1%	258	ALARM.COM, INC	164	▲ 12%
209	NIPPON STEEL CORPORATION	211	▼ -30%	258	MINEBEAMITSUMI, INC.	164	▼ -8%
211	SONOS, INC.	208	▲ 34%	261	SERVICENOW	163	▼ -28%
211	COMPAGNIE DE SAINT-GOBAIN S.A.	208	▼ -11%	261	SMITH & NEPHEW PLC	163	■ 4%
211	SHIN-ETSU CHEMICAL CO., LTD.	208	▼ -6%	261	FRESENIUS SE & CO. KGAA	163	▼ -28%
211	VALEO SA	208	▼ -3%	264	MERCK GROUP	162	▼ -15%
215	SANOFI S.A.	206	▼ -7%	265	RESMED	161	▼ -5%
216	AISIN CORPORATION	205	▼ -37%	266	UNIVERSAL DISPLAY CORPORATION	160	▲ 57%
217	DOLBY LABORATORIES, INC.	204	▼ -2%	266	HERE HOLDING CORP.	160	▼ -22%
218	RENESAS ELECTRONICS	203	▼ -23%	266	MITSUBISHI CHEMICAL HOLDINGS	160	▼ -23%
219	PALANTIR TECHNOLOGIES	201	▲ 5%	266	RAMBUS INC.	160	▲ 11%
219	NIDEC CORPORATION	201	▼ -35%	270	ALIGN TECHNOLOGY, INC.	158	▲ 36%
221	STANFORD UNIVERSITY	199	▲ 8%	271	EDWARDS LIFESCIENCES	157	▲ 16%
222	PURDUE UNIVERSITY	198	■ 3%	272	FUJI ELECTRIC CO LTD	156	▼ -29%
223	WINBOND ELECTRONICS	195	▼ -16%	272	ZEBRA TECHNOLOGIES	156	▲ 33%
224	ROCKWELL AUTOMATION, INC.	192	■ 3%	272	NETAPP, INC.	156	▲ 16%
225	THOMA BRAVO, LP	189	▲ 55%	272	WALT DISNEY COMPANY	156	▼ -14%
226	GE HEALTHCARE TECHNOLOGIES	188	▲ 17%	276	CALIFORNIA INSTITUTE OF TECH	154	▼ -7%
226	YAZAKI CORPORATION	188	▼ -32%	277	WESTINGHOUSE AIR BRAKE TECH	153	▲ 20%
226	YAMAHA CORPORATION	188	▼ -24%	278	KLA CORPORATION	151	▼ -11%
229	HARVARD UNIVERSITY	186	■ 1%	278	PIXART IMAGING INC.	151	▲ 40%
230	ZHEJIANG UNIVERSITY	185	▲ 27%	280	NIKON CORPORATION	150	■ 1%
230	BATTELLE MEMORIAL INSTITUTE	185	▲ 23%	281	KOMATSU LTD.	149	▼ -16%
232	GOPRO, INC.	184	▲ 18%	282	I-U RESEARCH COOPERATION FDN.	147	▲ 9%
232	BAXTER INTERNATIONAL INC.	184	▼ -4%	282	CABLE TELEVISION LABORATORIES	147	▲ 27%
232	SHIMADZU CORPORATION	184	▼ -23%	284	SIGNIFY	146	▼ -26%
235	AB SKF	183	▲ 17%	284	OTIS WORLDWIDE CORPORATION	146	▼ -13%
236	BETA TECHNOLOGIES	182	▲ 127%	284	MAKITA CORPORATION	146	▲ 40%
237	IMAGINATION TECHNOLOGIES	181	▲ 34%	284	KAWASAKI HEAVY INDUSTRIES LTD.	146	▼ -21%
237	SWATCH GROUP LTD	181	▲ 22%	288	KUBOTA CORPORATION	145	■ 1%
237	KONICA MINOLTA, INC.	181	▼ -34%	288	KAIST	145	■ 1%
240	MAZDA MOTOR CORPORATION	178	▼ -27%	288	SEOUL NATIONAL UNIVERSITY	145	■ 1%
241	SHANGHAI UNITED IMAGING HEALTH.	177	■ 1%	288	OFINNO, LLC	145	▲ 49%
241	SCHNEIDER ELECTRIC	177	▲ 13%	292	KOCH INDUSTRIES, INC.	144	▲ 13%
243	TERUMO CORPORATION	176	■ 2%	293	LUMEN TECHNOLOGIES, INC.	142	▲ 38%
244	SUMITOMO RUBBER INDUSTRIES	175	▲ 5%	293	ECOLAB INC.	142	▼ -1%
244	ACCENTURE PLC	175	▼ -32%	295	LARGAN PRECISION COMPANY	141	▲ 22%
246	KYNDRYL, INC.	173	▼ -16%	295	ILLUMINA, INC.	141	▲ 17%
246	AAC TECHNOLOGIES HOLDINGS INC.	173	▼ -39%	295	REGENERON PHARMACEUTICALS	141	▲ 16%
248	SEAGATE TECHNOLOGY PLC	172	▼ -31%	295	FIDELITY NATIONAL INFO. SERV.	141	▲ 29%
248	LUTRON ELECTRONICS COMPANY	172	▲ 32%	295	JOHNS HOPKINS UNIVERSITY	141	▼ -12%
250	ASE TECHNOLOGY HOLDING CO., LTD.	171	▼ -16%	295	ALCON	141	▲ 11%
				295	TAIYO YUDEN CO., LTD.	141	▲ 57%


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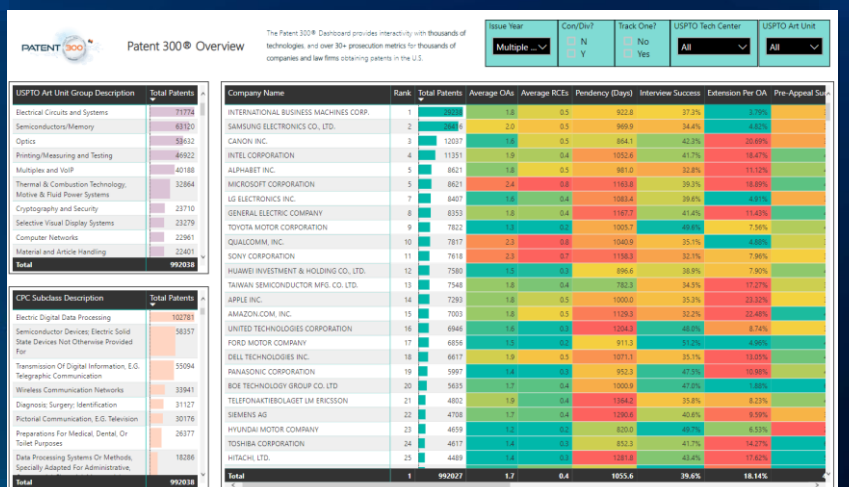
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USPTO Art Unit Group Description	Total Patents
Electrical Circuits and Systems	73778
Semiconductors/Memory	63120
Optics	58612
Printing/Measuring and Testing	46922
Multiple and VoIP	40188
Thermal & Combustion Technology	32864
Motor & Fluid Power Systems	23710
Cryptography and Security	23279
Selective Visual Display Systems	22961
Computer Networks	22401
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	58357
Transmission Of Digital Information, E.G. Telegraphic Communication	55094
Wireless Communication Networks	33941
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 OA	Average RCEs	Pendency (Days)	Interview Success	Extension Per OA	Pre-Appeal Success
INTERNATIONAL BUSINESS MACHINES CORP.	1	922.8	1.8	0.5	922.8	37.2%		5.9%
SAMSUNG ELECTRONICS CO., LTD.	2	1088.1	2.0	0.5	999.9	34.4%		5.6%
CANON INC.	3	1203.7	1.6	0.5	864.1	42.3%		25.6%
INTEL CORPORATION	4	1135.1	1.9	0.4	1032.6	41.7%		18.4%
ALPHABET INC.	5	862.1	1.8	0.5	981.0	32.8%		11.1%
MICROSOFT CORPORATION	5	862.1	2.4	0.8	1193.8	39.2%		16.9%
LG ELECTRONICS INC.	7	840.7	1.8	0.6	1093.4	39.6%		24.1%
GENERAL ELECTRIC COMPANY	8	835.3	1.8	0.4	1189.2	41.4%		19.4%
TOYOTA MOTOR CORPORATION	9	792.2	2.4	0.6	1001.7	36.4%		7.9%
QUALCOMM, INC.	10	781.7	2.3	0.8	1040.9	35.1%		9.0%
SONY CORPORATION	11	761.8	1.7	0.7	1168.3	32.1%		7.9%
HUAWEI INVESTMENT & HOLDING CO., LTD.	12	750.0	1.5	0.5	896.4	36.8%		7.9%
TAIWAN SEMICONDUCTOR MFG. CO. LTD.	13	754.8	1.8	0.4	780.3	34.3%		17.2%
APPLE INC.	14	729.3	1.8	0.5	1000.0	35.3%		23.2%
AMAZON.COM, INC.	15	700.3	1.8	0.5	1129.3	32.2%		22.4%
UNITED TECHNOLOGIES CORPORATION	16	694.6	1.6	0.7	1084.2	46.6%		8.7%
ROHM MOTOR COMPANY	17	620.8	1.6	0.6	911.2	35.2%		14.8%
DELL TECHNOLOGIES INC.	18	601.7	1.9	0.7	1070.0	34.1%		14.8%
ROKONIC CORPORATION	19	597.7	1.4	0.6	953.3	27.5%		15.9%
BOE TECHNOLOGY GROUP CO. LTD.	20	563.3	1.7	0.4	1000.9	47.0%		3.0%
TELEFONAKTIEBOLAGET EM ERICSSON	21	480.2	1.5	0.6	1044.2	35.6%		8.3%
SIEMENS AG	22	470.8	1.7	0.4	1206.6	40.6%		8.3%
HYUNDAI MOTOR COMPANY	23	461.9	1.5	0.6	820.0	36.1%		6.3%
TOSHIBA CORPORATION	24	461.7	1.4	0.5	853.3	41.7%		14.2%
HITACHI, LTD.	25	448.9	1.4	0.5	1281.9	43.4%		17.6%
Total	1	99202.7	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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141	AB VOLVO	302	▲ 16%
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124	ABBOTT LABORATORIES	345	▼ -7%
244	ACCENTURE PLC	175	▼ -32%
70	ADEIA INC.	554	▲ 27%
98	ADOBE INC.	481	▲ 15%
88	ADVANCED MICRO DEVICES, INC.	508	▲ 9%
86	AIRBUS SE	512	▼ -3%
216	AISIN CORPORATION	205	▼ -37%
258	ALARM.COM, INC	164	▲ 12%
295	ALCON	141	▲ 11%
207	ALIBABA GROUP HOLDING LIMITED	212	▼ -49%
270	ALIGN TECHNOLOGY, INC.	158	▲ 36%
8	ALPHABET INC.	2579	▲ 23%
137	ALTRIA GROUP, INC.	314	▬ 0%
18	AMAZON.COM, INC.	1857	▼ -12%
252	AMS-OSRAM AG	168	▼ -23%
173	ANALOG DEVICES, INC.	257	▬ 4%
9	APPLE INC.	2568	▲ 11%
36	APPLIED MATERIALS, INC.	949	▲ 20%
200	APTIV PLC	224	▲ 10%
206	ARISTOCRAT LEISURE LIMITED	213	▲ 9%
184	ARIZONA BOARD OF REGENTS	245	▼ -10%
209	ASAHI KASEI CORPORATION	211	▼ -1%
250	ASE TECHNOLOGY HOLDING CO.	171	▼ -16%
182	ASML HOLDING N.V.	248	▬ 2%
72	AT&T INC.	547	▼ -35%
252	AURORA INNOVATION, INC.	168	▲ 11%
67	BAIDU, INC.	626	▬ 1%
114	BAKER HUGHES COMPANY	377	▼ -5%
64	BANK OF AMERICA CORPORATION	644	▲ 6%
128	BASF SE	333	▼ -18%
230	BATTELLE MEMORIAL INSTITUTE	185	▲ 23%
232	BAXTER INTERNATIONAL INC.	184	▼ -4%
132	BAYER AG	322	▼ -36%
179	BAYERISCHE MOTOREN WERKE AG	250	▼ -31%
87	BECTON, DICKINSON AND COMPANY	511	▲ 22%
199	BERKSHIRE HATHAWAY	226	▲ 11%
236	BETA TECHNOLOGIES	182	▲ 127%
19	BOE TECHNOLOGY GROUP CO., LTD.	1695	▼ -38%
47	BOEING COMPANY	845	▼ -24%
96	BOSTON SCIENTIFIC CORPORATION	491	▼ -1%
40	BROADCOM INC.	932	▲ 13%
66	BROTHER INDUSTRIES, LTD.	637	▼ -3%
122	BYTEDANCE LTD.	350	▲ 119%
282	CABLE TELEVISION LABORATORIES	147	▲ 27%
276	CALIFORNIA INSTITUTE OF TECH	154	▼ -7%

Rank	Organization	2023 Patents	Change from 2022
6	CANON K.K.	3199	▲ 5%
32	CAPITAL ONE FINANCIAL	1029	▲ 45%
173	CARL-ZEISS-STIFTUNG	257	▼ -17%
162	CARRIER GLOBAL CORPORATION	266	▼ -6%
92	CATERPILLAR INC.	500	▬ 4%
202	CHARTER COMMUNICATIONS, INC.	223	▲ 14%
157	CHINESE ACADEMY OF SCIENCES	270	▼ -15%
251	CIRRUS LOGIC, INC.	169	▬ 2%
39	CISCO SYSTEMS, INC.	933	▼ -3%
150	CLOUD SOFTWARE GROUP	281	▼ -22%
168	CNH INDUSTRIAL N.V.	260	▼ -16%
78	COMCAST CORPORATION	529	▲ 28%
65	COMMSCOPE INC.	638	▬ 2%
211	COMPAGNIE DE SAINT-GOBAIN S.A.	208	▼ -11%
164	CONTEMPORARY AMPEREX TECH	265	▲ 24%
195	CONTINENTAL AG	235	▼ -23%
74	CORNING INCORPORATED	544	▲ 13%
126	CORTEVA, INC.	342	▲ 5%
155	CUMMINS INC.	272	▬ 3%
179	DAIKIN INDUSTRIES, LTD.	250	▲ 12%
175	DANAHER CORPORATION	256	▬ 0%
94	DEERE & COMPANY	497	▲ 9%
16	DELL TECHNOLOGIES	2010	▼ -18%
139	DELTA ELECTRONICS, INC.	308	▬ 4%
50	DENSO CORPORATION	743	▼ -27%
217	DOLBY LABORATORIES, INC.	204	▼ -2%
169	DOW CHEMICAL COMPANY	259	▼ -25%
185	EATON CORPORATION	244	▼ -9%
151	EBAY INC.	279	▲ 9%
122	ECHOSTAR CORPORATION	350	▲ 37%
293	ECOLAB INC.	142	▼ -1%
271	EDWARDS LIFESCIENCES	157	▲ 16%
108	ETRI	399	▲ 6%
119	ELLIOTT MANAGEMENT	354	▲ 35%
158	EMERSON ELECTRIC CO.	268	▬ 3%
192	EXXON MOBIL	238	▼ -15%
158	FANUC CORPORATION	268	▼ -36%
295	FIDELITY NATIONAL INFO. SERV.	141	▲ 29%
22	FORD MOTOR COMPANY	1306	▼ -4%
149	FRAUNHOFER	282	▼ -8%
178	CEA	251	▼ -26%
200	FNCSR	224	▼ -22%
261	FRESENIUS SE & CO. KGAA	163	▼ -28%
272	FUJI ELECTRIC CO LTD	156	▼ -29%
29	FUJIFILM HOLDINGS CORP	1133	▼ -17%
79	FUJITSU LIMITED	521	▼ -20%
226	GE HEALTHCARE TECHNOLOGIES	188	▲ 17%
26	GENERAL ELECTRIC COMPANY	1164	▼ -1%
45	GENERAL MOTORS COMPANY	870	▲ 19%
160	GLOBALFOUNDRIES INC.	267	▼ -3%

2023 Patent Owners

Alphabetical Listing

The total number of patents granted by the USPTO in 2023 was 312,486, down 3 percent from 2022. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2022 and 2023, and many other factors. New organizations on the list are provided on page 9.

Rank	Organization	2023 Patents	Change from 2022
193	GLOBUS MEDICAL	236	▲ 11%
232	GOPRO, INC.	184	▲ 18%
176	HAIER GROUP CORP.	253	▼ -14%
51	HALLIBURTON COMPANY	739	▼ -24%
229	HARVARD UNIVERSITY	186	▬ 1%
266	HERE HOLDING CORP.	160	▼ -22%
89	HEWLETT PACKARD ENTERPRISE	503	▼ -3%
55	HEWLETT-PACKARD COMPANY	691	▼ -50%
30	HITACHI, LTD.	1086	▼ -30%
258	HKC CORPORATION LIMITED	164	▼ -47%
28	HONDA MOTOR COMPANY, LTD.	1142	▼ -16%
44	HONEYWELL INTERNATIONAL INC.	880	▲ 15%
10	HUAWEI TECHNOLOGIES CO., LTD.	2290	▼ -24%
15	HYUNDAI MOTOR COMPANY	2052	▲ 14%
130	ILLINOIS TOOL WORKS INC.	331	▲ 19%
295	ILLUMINA, INC.	141	▲ 17%
237	IMAGINATION TECHNOLOGIES	181	▲ 34%
189	ITRI	239	▲ 13%
282	I-U RESEARCH COOPERATION FDN.	147	▲ 9%
53	INFINEON TECHNOLOGIES AG	716	▲ 7%
145	INNOLUX CORPORATION	293	▲ 37%
12	INTEL CORPORATION	2263	▼ -9%
116	INTERDIGITAL	369	▲ 9%
3	INTERNATIONAL BUSINESS MACHINES	3953	▼ -15%
257	INTERNATIONAL GAME TECHNOLOGY	166	▲ 44%
179	INTUIT INC.	250	▲ 45%
187	INTUITIVE SURGICAL, INC.	240	▲ 22%
79	JAPAN DISPLAY INC.	521	▲ 35%
295	JOHNS HOPKINS UNIVERSITY	141	▼ -12%
20	JOHNSON & JOHNSON	1489	▲ 8%
103	JOHNSON CONTROLS	431	▲ 5%
189	JPMORGAN CHASE & CO.	239	▼ -4%
151	JUNIPER NETWORKS, INC.	279	▼ -3%
284	KAWASAKI HEAVY INDUSTRIES LTD.	146	▼ -21%
204	KING FAHD UNIV. OF PETRO. & MINER.	216	▼ -7%
57	KIOXIA HOLDINGS CORPORATION	687	▲ 10%
278	KLA CORPORATION	151	▼ -11%
292	KOCH INDUSTRIES, INC.	144	▲ 13%
281	KOMATSU LTD.	149	▼ -16%
237	KONICA MINOLTA, INC.	181	▼ -34%
61	KONINKLUJE PHILIPS N.V.	651	▼ -21%
288	KAIST	145	▬ 1%
288	KUBOTA CORPORATION	145	▬ 1%
246	KYNDRYL, INC.	173	▼ -16%
52	KYOCERA CORPORATION	717	▼ -12%
295	LARGAN PRECISION COMPANY	141	▲ 22%
77	LENOVO GROUP LIMITED	530	▼ -16%
2	LG CORPORATION	4170	▼ -9%
255	LOREAL S.A.	167	▼ -28%
293	LUMEN TECHNOLOGIES, INC.	142	▲ 38%

Rank	Organization	2023 Patents	Change from 2022
248	LUTRON ELECTRONICS COMPANY	172	▲ 32%
134	MAGIC LEAP, INC.	320	▲ 13%
129	MAGNA INTERNATIONAL	332	▲ 17%
284	MAKITA CORPORATION	146	▲ 40%
165	MARVELL TECHNOLOGY GROUP LTD.	263	▲ 5%
198	MASS GENERAL BRIGHAM	227	▲ 7%
117	MIT	365	▲ 6%
144	MASTERCARD INCORPORATED	294	▼ -3%
240	MAZDA MOTOR CORPORATION	178	▼ -27%
111	MEDIATEK INC.	388	▼ -6%
21	MEDTRONIC PLC	1379	▲ 6%
264	MERCK GROUP	162	▼ -15%
41	META PLATFORMS, INC.	919	▼ -8%
11	MICRON TECHNOLOGY INC.	2267	▲ 22%
17	MICROSOFT CORPORATION	1927	▼ -1%
258	MINEBEAMITSUMI, INC.	164	▼ -8%
266	MITSUBISHI CHEMICAL HOLDINGS	160	▼ -23%
46	MITSUBISHI ELECTRIC CORPORATION	861	▼ -33%
133	MITSUBISHI HEAVY INDUSTRIES	321	▼ -39%
125	MUBADALA INVESTMENT	343	▼ -7%
42	MURATA MANUFACTURING CO.	898	▼ -14%
145	NANYA TECHNOLOGY	293	▲ 28%
43	NEC CORPORATION	888	▼ -13%
272	NETAPP, INC.	156	▲ 16%
156	NICHIA CORPORATION	271	▬ 2%
219	NIDEC CORPORATION	201	▼ -35%
100	NIKE, INC.	464	▲ 20%
280	NIKON CORPORATION	150	▬ 1%
209	NIPPON STEEL CORPORATION	211	▼ -30%
49	NIPPON TELEGRAPH & TELEPHONE	773	▼ -5%
140	NISSAN MOTOR CO., LTD.	305	▼ -4%
61	NOKIA CORPORATION	651	▼ -6%
95	NVIDIA CORPORATION	494	▲ 77%
106	NXP SEMICONDUCTORS N.V.	426	▼ -10%
288	OFINNO, LLC	145	▲ 49%
148	OLYMPUS CORPORATION	284	▼ -28%
203	OMRON CORPORATION	221	▼ -15%
255	ON SEMICONDUCTOR CORP.	167	▼ -21%
187	OPENTEXT CORPORATION	240	▲ 11%
84	OPPO MOBILE TELECOMM	516	▼ -32%
48	ORACLE CORPORATION	812	▲ 7%
284	OTIS WORLDWIDE CORPORATION	146	▼ -13%
219	PALANTIR TECHNOLOGIES	201	▲ 5%
23	PANASONIC CORPORATION	1277	▼ -15%
136	PAYPAL HOLDINGS, INC.	317	▬ 2%
278	PIXART IMAGING INC.	151	▲ 40%
79	PORSCHE AUTOMOBIL HOLDING SE	521	▼ -20%
97	PROCTER & GAMBLE COMPANY	489	▲ 13%
222	PURDUE UNIVERSITY	198	▬ 3%
177	PURE STORAGE, INC.	252	▲ 24%

2023 Patent Owners

Alphabetical Listing

The total number of patents granted by the USPTO in 2023 was 312,486, down 3 percent from 2022. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2022 and 2023, and many other factors. New organizations on the list are provided on page 9.

Rank	Organization	2023 Patents	Change from 2022
4	QUALCOMM	3886	▲ 46%
266	RAMBUS INC.	160	▲ 11%
147	REALTEK SEMICONDUCTOR CORP.	288	▼ -8%
295	REGENERON PHARMACEUTICALS	141	▲ 16%
218	RENESAS ELECTRONICS	203	▼ -23%
265	RESMED	161	▼ -5%
69	RICOH COMPANY LTD.	576	▼ -15%
35	ROBERT BOSCH GMBH	976	▼ -18%
105	ROCHE HOLDING AG	428	▲ 10%
224	ROCKWELL AUTOMATION, INC.	192	■ 3%
166	ROHM COMPANY LIMITED	262	▲ 8%
113	ROLLS-ROYCE HOLDINGS PLC	378	▼ -19%
13	RTX CORPORATION	2144	▼ -11%
182	RUILI INTEGRATED CIRCUIT CO., LTD.	248	▲ 188%
90	SAFRAN S.A.	502	▼ -10%
63	SALESFORCE.COM, INC.	646	■ 1%
90	SAMSUNG ELECTRO-MECHANICS	502	▲ 10%
1	SAMSUNG ELECTRONICS CO., LTD.	9036	▲ 5%
166	SAMSUNG SDI	262	▼ -10%
215	SANOFI S.A.	206	▼ -7%
83	SAP SE	519	▼ -21%
31	SAUDI ARABIAN OIL COMPANY	1033	▲ 7%
252	SCHAEFFLER TECHNOLOGIES	168	▼ -21%
241	SCHNEIDER ELECTRIC	177	▲ 13%
248	SEAGATE TECHNOLOGY PLC	172	▼ -31%
27	SEIKO EPSON CORPORATION	1143	▼ -8%
99	SEMICONDUCTOR ENERGY LAB	475	▲ 16%
288	SEOUL NATIONAL UNIVERSITY	145	■ 1%
261	SERVICENOW	163	▼ -28%
241	SHANGHAI UNITED IMAGING HEALTH.	177	■ 1%
93	SHARP CORPORATION	498	▼ -24%
232	SHIMADZU CORPORATION	184	▼ -23%
211	SHIN-ETSU CHEMICAL CO., LTD.	208	▼ -6%
37	SIEMENS AG	942	▼ -15%
197	SIEMENS ENERGY AG	230	▼ -32%
284	SIGNIFY	146	▼ -26%
24	SK GROUP	1206	▼ -12%
186	SKYWORKS SOLUTIONS, INC.	243	▲ 32%
107	SLB	423	▲ 13%
261	SMITH & NEPHEW PLC	163	■ 4%
60	SNAP INC.	658	▲ 51%
204	SNOWFLAKE INC.	216	▼ -2%
169	SOFTBANK GROUP CORP.	259	▼ -30%
211	SONOS, INC.	208	▲ 34%
14	SONY CORPORATION	2057	▼ -22%
120	SPLUNK INC.	352	▲ 47%
221	STANFORD UNIVERSITY	199	▲ 8%
134	STATE FARM	320	▲ 22%
110	STATE UNIV. SYSTEM OF FLORIDA	391	■ 1%
56	STMICROELECTRONICS	689	▲ 17%

Rank	Organization	2023 Patents	Change from 2022
82	STRYKER CORPORATION	520	▲ 15%
151	SUBARU CORPORATION	279	■ 3%
189	SUMITOMO CHEMICAL COMPANY	239	▼ -5%
102	SUMITOMO ELECTRIC INDUSTRIES	445	▼ -27%
244	SUMITOMO RUBBER INDUSTRIES	175	▲ 5%
237	SWATCH GROUP LTD	181	▲ 22%
5	TAIWAN SEMICONDUCTOR MFG. CO.	3719	▲ 22%
295	TAIYO YUDEN CO., LTD.	141	▲ 57%
207	TATA SONS LTD	212	▼ -18%
85	TCL CORPORATION	515	▼ -54%
68	TDK CORPORATION	604	▼ -4%
196	TE CONNECTIVITY LTD.	234	▼ -9%
130	TECHTRONIC INDUSTRIES	331	▲ 24%
24	TELEFONAKTIEBOLAGET LMERICSSON	1206	▼ -15%
54	TENCENT HOLDINGS LTD	702	▼ -11%
243	TERUMO CORPORATION	176	■ 2%
34	TEXAS INSTRUMENTS	978	▲ 7%
142	TEXTRON INC.	301	▲ 14%
169	THERMO FISHER SCIENTIFIC	259	▲ 7%
225	THOMA BRAVO, LP	189	▲ 55%
143	TIANMA MICROELECTRONICS CO., LTD	295	▲ 7%
58	T-MOBILE / DEUTSCHE TELEKOM AG	680	▲ 7%
71	TOKYO ELECTRON LIMITED	551	▼ -2%
33	TOSHIBA CORPORATION	986	▼ -13%
7	TOYOTA JIDOSHA K.K.	2667	▼ -12%
115	TSINGHUA HOLDINGS	372	▼ -3%
138	UNITED MICROELECTRONICS	313	▲ 26%
109	USAA	393	▲ 14%
38	US FEDERAL GOVERNMENT	935	▼ -4%
266	UNIVERSAL DISPLAY CORPORATION	160	▲ 57%
73	UNIVERSITY OF CALIFORNIA	546	▼ -4%
193	UNIVERSITY OF TEXAS SYSTEM	236	▲ 5%
211	VALEO SA	208	▼ -3%
75	VERIZON COMMUNICATIONS INC.	540	▼ -2%
118	VISA INC.	357	▲ 16%
172	VIVO MOBILE COMMUNICATIONS	258	▲ 7%
162	WAL-MART STORES, INC.	266	▲ 23%
272	WALT DISNEY COMPANY	156	▼ -14%
76	WELLS FARGO & COMPANY	537	▲ 32%
59	WESTERN DIGITAL CORPORATION	674	▼ -8%
277	WESTINGHOUSE AIR BRAKE TECH	153	▲ 20%
127	WHIRLPOOL CORPORATION	338	▲ 26%
223	WINBOND ELECTRONICS	195	▼ -16%
160	XEROX HOLDINGS CORPORATION	267	▲ 8%
101	XIAOMI INC.	461	▼ -7%
226	YAMAHA CORPORATION	188	▼ -24%
226	YAZAKI CORPORATION	188	▼ -32%
272	ZEBRA TECHNOLOGIES	156	▲ 33%
112	ZF FRIEDRICHSHAFEN AG	379	▼ -1%
230	ZHEJIANG UNIVERSITY	185	▲ 27%
121	ZTE CORPORATION	351	▼ -14%

Top 5 Movers in the Patent 300®

Rank	Organization	2021 Patents	Change from 2020
182	RUILI INTEGRATED CIRCUIT CO., LTD.	248	▲ 188%
236	BETA TECHNOLOGIES	182	▲ 127%
122	BYTEDANCE LTD.	350	▲ 119%
95	NVIDIA CORPORATION	494	▲ 77%
295	TAIYO YUDEN CO., LTD.	141	▲ 57%

New Organizations in the Patent 300®

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

ADEIA INC. (#70), OPPO MOBILE TELECOMMUNICATIONS CORPORATION (#84), ELLIOTT MANAGEMENT CORPORATION (#119), ECHOSTAR CORPORATION (#122), CLOUD SOFTWARE GROUP (#150), GLOBALFOUNDRIES INC. (#160), CARRIER GLOBAL CORPORATION (#162), VIVO MOBILE COMMUNICATIONS (#172), RUILI INTEGRATED CIRCUIT CO., LTD. (#182), OPENTEXT CORPORATION (#187), AISIN CORPORATION (#216), THOMA BRAVO, LP (#225), GE HEALTHCARE TECHNOLOGIES, INC. (#226), BETA TECHNOLOGIES (#236), IMAGINATION TECHNOLOGIES GROUP PLC (#237), SWATCH GROUP LTD (#237), LUTRON ELECTRONICS COMPANY (#248), AURORA INNOVATION, INC. (#252), AMS-OSRAM AG (#252), INTERNATIONAL GAME TECHNOLOGY PLC (#257), UNIVERSAL DISPLAY CORPORATION (#266), ALIGN TECHNOLOGY, INC. (#270), EDWARDS LIFESCIENCES (#271), ZEBRA TECHNOLOGIES CORPORATION (#272), NETAPP, INC. (#272), WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORP (#277), PIXART IMAGING INC. (#278), CABLE TELEVISION LABORATORIES, INC. (#282), I-U RESEARCH COOPERATION FDN. (#282), MAKITA CORPORATION (#284), OFINNO, LLC (#288), KOCH INDUSTRIES, INC. (#292), LUMEN TECHNOLOGIES, INC. (#293), TAIYO YUDEN CO., LTD. (#295), FIDELITY NATIONAL INFORMATION SERVICES, INC. (#295), LARGAN PRECISION COMPANY LIMITED (#295), ILLUMINA, INC. (#295), REGENERON PHARMACEUTICALS, INC. (#295), ALCON (#295)

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 2023 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 15 December 2024.