



Top 300 Organizations Granted U.S. Patents in 2019

37th Annual Listing

This list of organizations that received the most U.S. utility patents is being published by IPO for the 37th 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 2019, visit the [Patent 300[®] website](#) for an interactive dashboard.

May 18, 2020

2019 Patent Owners

Numerical Listing

The total number of patents granted by the USPTO in 2019 was 354,507, up 15.2 percent from 2018. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2018 and 2019, and many other factors. New organizations on the list are colored BLUE and italicized.

Rank	Organization	2019 Patents	Change from 2018	Rank	Organization	2019 Patents	Change from 2018
1	IBM	9477	▲ 4%	51	Schlumberger	894	▲ 42%
2	Samsung Electronics	8735	▲ 9%	52	Oracle	888	▲ 20%
3	Canon	4102	▲ 15%	53	LG Display	866	▲ 28%
4	Intel	3680	▲ 8%	54	Sharp	856	▲ 28%
5	Microsoft	3144	▲ 32%	55	Infineon	849	▼ -3%
6	GE	3110	▲ 19%	56	HPE	818	▲ 57%
7	Huawei	2938	▲ 33%	57	Bayer	814	▲ 10%
8	United Technologies	2847	▲ 31%	58	SK Hynix	804	▬ 0%
9	LG Electronics	2810	▲ 13%	59	LG Chem	795	▲ 31%
10	Toyota	2705	▲ 6%	60	Brother	782	▲ 28%
11	Sony	2675	▲ 24%	61	STMicroelectronics	775	▲ 9%
12	Alphabet	2621	▼ 0%	62	Mubadala Investment	771	▼ -6%
13	Ford	2519	▲ 17%	63	Applied Materials	747	▲ 27%
14	Apple	2512	▲ 15%	64	Western Digital	743	▬ 1%
15	Amazon	2504	▲ 18%	65	Toshiba Memory	726	▬ 4%
16	Dell	2482	▲ 18%	66	Olympus	712	▲ 6%
17	Qualcomm	2376	▼ 0%	67	University of California	706	▲ 20%
18	TSMC	2352	▼ -6%	68	Semiconductor Energy Lab	701	▼ -20%
19	BOE	2190	▲ 33%	69	Porsche	693	▲ 38%
20	Panasonic	2033	▲ 8%	70	Sumitomo Electric	689	▲ 43%
21	Siemens	1684	▲ 18%	71	Japan Display	685	▲ 11%
22	Ericsson	1613	▲ 17%	72	<i>China Star Optoelectronics</i>	678	<i>New</i>
23	Hyundai	1561	▬ 1%	73	SAP	674	▲ 50%
24	Hitachi	1546	▲ 18%	74	Konica Minolta	672	▬ 2%
25	Toshiba	1495	▼ -11%	75	Fanuc	668	▲ 70%
26	Johnson & Johnson	1474	▲ 44%	76	Verizon	655	▬ 1%
27	AT&T	1455	▲ 14%	77	NXP	646	▼ -7%
28	Medtronic	1446	▲ 10%	78	Lenovo	628	▲ 8%
29	Boeing	1433	▲ 14%	79	Capital One	625	▲ 232%
30	GM	1404	▲ 17%	80	Airbus	622	▬ 4%
31	Fujifilm	1375	▲ 11%	81	Safran	615	▲ 20%
32	Seiko Epson	1346	▬ 5%	82	Softbank	612	▼ -10%
33	Mitsubishi Electric	1333	▲ 12%	83	BASF	596	▲ 18%
34	Facebook	1317	▲ 78%	84	Broadcom	595	▲ 72%
35	Honeywell	1295	▲ 13%	85	Rolls-Royce	593	▲ 50%
36	Fujitsu	1282	▼ -1%	86	3M	591	▬ 4%
37	Micron	1276	▲ 37%	87	ETRI	589	▲ 14%
38	Robert Bosch	1272	▼ -2%	88	Boston Scientific	582	▲ 13%
39	Denso	1218	▬ 5%	88	TCL	582	▼ -39%
40	Koninklijke Philips N.V.	1194	▼ -10%	90	<i>Dow Chemical</i>	565	<i>New</i>
41	Halliburton	1112	▲ 25%	91	Corning	560	▲ 14%
42	Honda	1104	▲ 15%	92	Commscope	557	▲ 79%
43	Kyocera	1085	▬ 2%	93	Procter & Gamble	548	▲ 5%
44	Cisco	1049	▲ 21%	94	<i>Corteva</i>	547	<i>New</i>
45	NEC	1011	▲ 22%	95	TDK	545	▲ 36%
46	Ricoh	994	▼ -6%	96	Saudi Aramco	536	▲ 62%
47	HP Inc.	959	▲ 31%	97	Renesas	530	▼ -8%
48	Murata Manufacturing	933	▲ 25%	98	Caterpillar	525	▲ 6%
49	Nokia	905	▬ 1%	99	Abbott Labs	522	▼ -1%
50	Texas Instruments	902	▲ 13%	100	Continental	516	▲ 25%

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Numerical Listing

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Rank	Organization	2019 Patents	Change from 2018	Rank	Organization	2019 Patents	Change from 2018
101	Nissan	504	▲ 13%	151	TE Connectivity	321	■ 4%
102	Hon Hai	499	■ 4%	152	ASML	318	▲ 27%
102	Roche	499	▼ -3%	153	ZF Friedrichshafen	311	▲ 37%
104	Mitsubishi Heavy Industries	490	▲ 45%	154	Alibaba	308	▲ 96%
105	Adobe	483	▲ 40%	154	Magna	308	▲ 19%
106	Becton Dickinson	481	▲ 74%	156	Marvell	307	▼ -5%
107	Fuji Electric	473	▲ 41%	157	Fraunhofer	305	▲ 47%
107	Mediatek	473	▼ -21%	158	Illinois Tool Works	300	▲ 11%
107	Nike	473	▲ 21%	159	Sumitomo Rubber	299	▲ 31%
110	Eaton	462	▲ 17%	160	Whirlpool	298	▼ -6%
111	Tencent	450	▲ 40%	161	Juniper Networks	296	▲ 11%
112	CEA	433	■ 0%	161	NTT	296	▲ 18%
113	Walmart	418	▲ 115%	163	Johnson Controls	295	■ 4%
114	Bank of America	417	▲ 30%	164	Aisin Seiki	294	■ 0%
115	ZTE	416	▼ -13%	165	Sanofi	292	▲ 13%
116	Tokyo Electron	414	▲ 6%	166	Skyworks	286	▲ 39%
117	Xerox	410	▼ -9%	167	Deutsche Telekom	285	▲ 60%
118	Deere & Company	409	▲ 46%	168	Omron	283	▲ 44%
119	ABB	406	▲ 14%	168	Xiaomi	283	▲ 27%
120	Valeo	405	▲ 22%	170	Tsinghua University	278	▲ 60%
121	CNH Industrial	404	▲ 7%	171	Paypal	276	▲ 19%
122	MIT	403	▲ 14%	171	Schaeffler	276	▲ 6%
123	LG Innotek	402	▼ -5%	173	Nikon	275	▲ 15%
124	Raytheon	398	▲ 23%	174	Accenture	274	▲ 36%
125	Seagate	390	▼ -2%	175	Bridgestone	272	▲ 8%
126	Osram	387	▲ 30%	176	Comcast	270	▲ 14%
127	Samsung Electro-Mechanics	383	▲ 16%	177	State Farm Insurance	269	▲ 35%
127	State Univ. System of FL	383	▲ 10%	178	Analog Devices	268	▲ 39%
129	Samsung SDI	381	▲ 13%	179	Ebay	265	▲ 18%
130	Emerson Electric	378	▲ 62%	179	Nippon Steel	265	▲ 24%
131	Yazaki	375	▲ 15%	179	Rohm	265	■ 1%
132	Stryker	374	▲ 47%	182	Tata Sons	264	▲ 110%
133	<i>BBK Electronics</i>	372	<i>New</i>	183	Nichia	263	▲ 21%
134	Carl Zeiss	367	■ 0%	184	BMW	262	▲ 38%
135	Exxon Mobil	356	▼ -6%	184	Mastercard	262	▲ 79%
136	United Microelectronics	350	■ 2%	186	Lam Research	261	▼ -6%
137	Thermo Fisher Scientific	348	■ 4%	187	Saint-Gobain	260	▲ 38%
138	Blackberry	343	▼ -7%	188	Casio	259	▲ 26%
139	Dolby Laboratories	341	▲ 14%	189	Disney	257	▲ 8%
139	<i>Pure Storage</i>	341	<i>New</i>	190	Nidec	253	▲ 30%
141	Lockheed Martin	340	▲ 32%	191	Sumitomo Chemical	251	▲ 17%
142	ON Semiconductor	339	▼ -3%	192	AMD	248	▲ 39%
142	<i>Signify</i>	339	<i>New</i>	193	Echostar	247	▼ -6%
142	Interdigital	339	▼ -10%	194	Zimmer Biomet	244	▼ -1%
145	Salesforce.com	332	▲ 64%	195	Novartis	243	▼ -8%
146	Intellectual Ventures	327	▼ -42%	196	Haier	242	▲ 37%
146	US Navy	327	▲ 11%	197	Schneider Electric	240	▲ 45%
148	Koch Industries	326	▲ 86%	198	Danaher	238	▼ -4%
149	ITRI	322	▲ 11%	199	KFUPM	236	▲ 8%
149	University of Texas System	322	▲ 50%	200	SMIC	235	▲ 41%

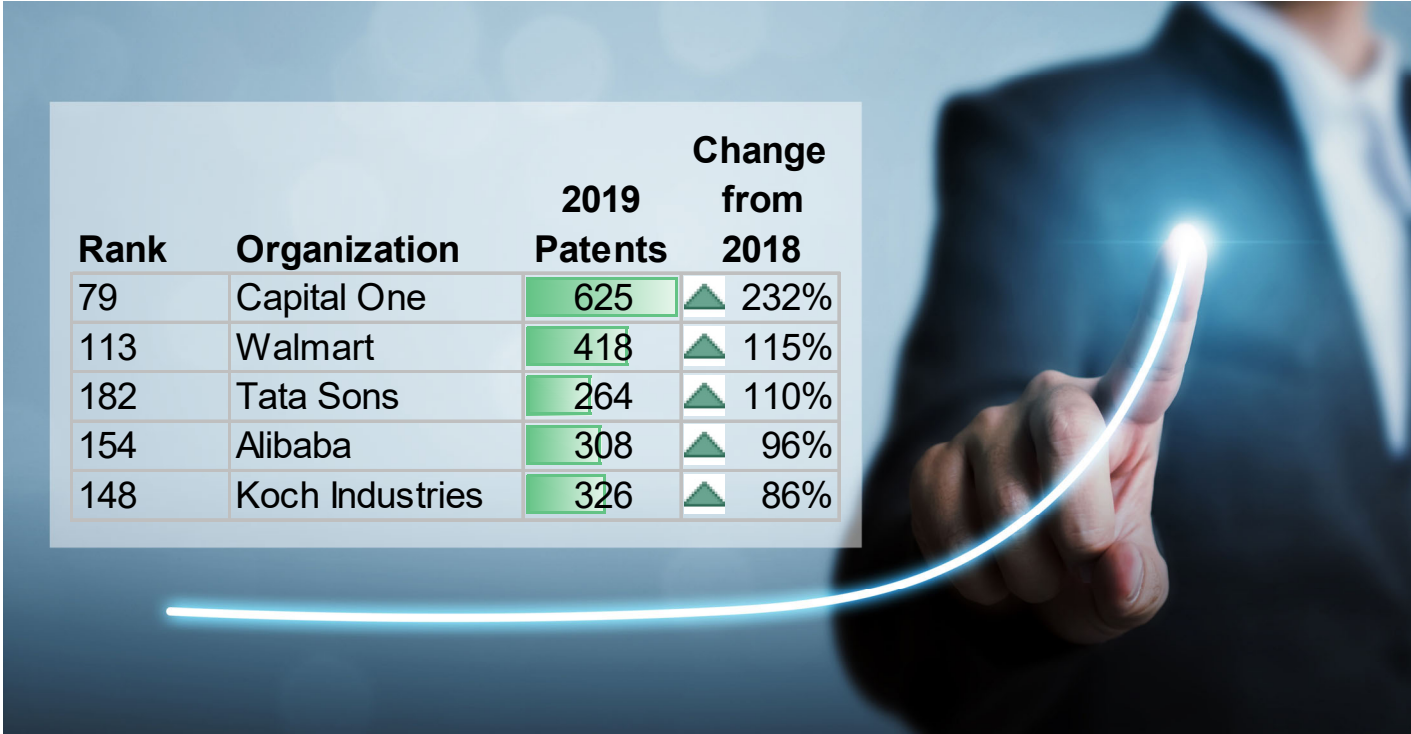
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Rank	Organization	2019 Patents	Change from 2018	Rank	Organization	2019 Patents	Change from 2018
200	Visa	235	▲ 46%	251	Daikin	174	▲ 14%
202	<i>KLA</i>	234	<i>New</i>	251	Sonos	174	▼ -7%
202	Shimadzu	234	▲ 72%	253	Toray Industries	172	▼ -9%
204	Textron	230	▲ 49%	253	Wisconsin Alumni Research	172	▬ 1%
205	AAC Technologies	229	▲ 32%	253	Merck & Co.	172	▼ -3%
206	Motorola Solutions	226	▲ 53%	256	Northrop Grumman	171	▲ 10%
206	USAA	226	▲ 66%	257	Delta Electronics	170	▼ -17%
208	Merck	225	▬ 0%	258	Bose	169	▲ 20%
209	<i>Baidu</i>	220	<i>New</i>	259	Open Invention Network	168	▲ 30%
210	Stanford University	219	▼ -10%	260	Weatherford	166	▲ 21%
211	Shin-Etsu Chemical	218	▼ -12%	261	Colgate-Palmolive	165	▲ 27%
212	Mahle	217	▲ 39%	261	Nvidia	165	▼ -17%
212	<i>Nielsen</i>	217	<i>New</i>	263	Kawasaki Heavy Industries	164	▼ -1%
214	Terumo	216	▲ 28%	263	L'Oreal	164	▼ -5%
215	Asahi Kasei	215	▲ 19%	263	Microchip Technology	164	▼ -15%
216	Saudi Basic Industries	209	▲ 28%	266	<i>Cirrus Logic</i>	163	<i>New</i>
217	Chinese Academy of Sciences	205	▲ 43%	267	Harvard University	162	▲ 21%
218	<i>Dupont</i>	203	<i>New</i>	267	Rockwell Automation	162	▼ -6%
218	Sun Patent Trust	203	▬ 0%	269	Au Optronics	161	▬ 5%
220	BAE Systems	202	▲ 20%	269	US Health & Human Services	161	▬ 5%
221	Ecolab	200	▲ 20%	271	Fila Korea	160	▬ 3%
221	Mazda	200	▲ 26%	271	Mitsubishi Chemical	160	▲ 21%
221	Rambus	200	▲ 29%	271	<i>Splunk</i>	160	<i>New</i>
224	Partners Healthcare	197	▼ -13%	274	<i>Hubbell</i>	159	<i>New</i>
225	<i>Cadence</i>	196	<i>New</i>	274	<i>Intuit</i>	159	<i>New</i>
225	Evonik	196	▬ 4%	274	<i>Wells Fargo</i>	159	<i>New</i>
225	Jtekt	196	▬ 4%	277	IGT	158	▬ 4%
228	Thales	195	▲ 7%	277	Ingersoll-Rand	158	▲ 27%
229	Cal Tech	194	▲ 23%	277	Michelin	158	▲ 11%
230	Fresenius	192	▲ 49%	280	Arkema	157	▲ 11%
231	Thyssenkrupp	191	▲ 48%	281	Fujikura	155	▲ 11%
232	Borgwarner	189	▼ -6%	281	Nitto Denko	155	▼ -3%
233	Immersion	188	▲ 32%	283	HTC	154	▲ 10%
233	Johns Hopkins University	188	▲ 28%	283	<i>Innolux</i>	154	<i>New</i>
233	Shimano	188	▲ 20%	283	Kobe Steel	154	▲ 14%
233	Xilinx	188	▲ 37%	283	<i>Synopsys</i>	154	<i>New</i>
237	Berkshire Hathaway	187	▼ -1%	287	GoPro	153	▲ 30%
237	Tivo	187	▼ -4%	287	SKF	153	▼ -12%
239	Henkel	185	▲ 26%	289	Qorvo	151	▼ -6%
240	Here Holding	184	▲ 10%	289	<i>Subaru</i>	151	<i>New</i>
240	<i>Tianma Microelectronics</i>	184	<i>New</i>	289	Synaptics	151	▼ -23%
242	Univ of Michigan	183	▲ 30%	292	<i>Bristol Myers Squibb</i>	150	<i>New</i>
243	AGC	181	▲ 41%	292	<i>Dropbox</i>	150	<i>New</i>
243	<i>Micro Focus</i>	181	<i>New</i>	292	JFE	150	▲ 13%
245	Intuitive Surgical	180	▲ 37%	292	Nestle	150	▼ -9%
246	<i>Altria</i>	179	<i>New</i>	296	<i>Edwards Lifesciences</i>	149	<i>New</i>
246	Cummins	179	▬ 2%	297	Purdue University	148	▲ 17%
248	Cook Group	177	▼ -16%	298	<i>HRL Laboratories</i>	147	<i>New</i>
248	<i>NetApp</i>	177	<i>New</i>	299	Smith & Nephew	146	▼ -7%
250	NGK Insulators	176	▲ 38%	300	<i>Endress+Hauser</i>	143	<i>New</i>

Top 5 Movers in the Patent 300®



Rank	Organization	2019 Patents	Change from 2018
79	Capital One	625	▲ 232%
113	Walmart	418	▲ 115%
182	Tata Sons	264	▲ 110%
154	Alibaba	308	▲ 96%
148	Koch Industries	326	▲ 86%

Notable Mergers & Divestitures among the Patent 300®



- ❖ IBM acquired Red Hat, further securing their place at the top of the list
- ❖ Broadcom acquired CA, Inc., jumping from #118 last year to #84 in 2019
- ❖ Commscope acquired Arris, boosting them from #133 last year to #92 in 2019
- ❖ DowDuPont, #38 on the previous Patent 300® list, split into Dow Chemical (#90), DuPont (#218), and Corteva (#94)

2019 Patent Owners

Alphabetical Listing

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86	3M	591	4%	217	Chinese Academy of Sciences	205	43%
205	AAC Technologies	229	32%	266	<i>Cirrus Logic</i>	163	New
119	ABB	406	14%	44	Cisco	1049	21%
99	Abbott Labs	522	-1%	121	CNH Industrial	404	7%
174	Accenture	274	36%	261	Colgate-Palmolive	165	27%
105	Adobe	483	40%	176	Comcast	270	14%
243	AGC	181	41%	92	Commscope	557	79%
80	Airbus	622	4%	100	Continental	516	25%
164	Aisin Seiki	294	0%	248	Cook Group	177	-16%
154	Alibaba	308	96%	91	Corning	560	14%
12	Alphabet	2621	0%	94	<i>Corteva</i>	547	New
246	<i>Altria</i>	179	New	246	Cummins	179	2%
15	Amazon	2504	18%	251	Daikin	174	14%
192	AMD	248	39%	198	Danaher	238	-4%
178	Analog Devices	268	39%	118	Deere & Company	409	46%
14	Apple	2512	15%	16	Dell	2482	18%
63	Applied Materials	747	27%	257	Delta Electronics	170	-17%
280	Arkema	157	11%	39	Denso	1218	5%
215	Asahi Kasei	215	19%	167	Deutsche Telekom	285	60%
152	ASML	318	27%	189	Disney	257	8%
27	AT&T	1455	14%	139	Dolby Laboratories	341	14%
269	Au Optronics	161	5%	90	<i>Dow Chemical</i>	565	New
220	BAE Systems	202	20%	292	<i>Dropbox</i>	150	New
209	<i>Baidu</i>	220	New	218	<i>Dupont</i>	203	New
114	Bank of America	417	30%	110	Eaton	462	17%
83	BASF	596	18%	179	Ebay	265	18%
57	Bayer	814	10%	193	Echostar	247	-6%
133	<i>BBK Electronics</i>	372	New	221	Ecolab	200	20%
106	Becton Dickinson	481	74%	296	<i>Edwards Lifesciences</i>	149	New
237	Berkshire Hathaway	187	-1%	130	Emerson Electric	378	62%
138	Blackberry	343	-7%	300	<i>Endress+Hauser</i>	143	New
184	BMW	262	38%	22	Ericsson	1613	17%
19	BOE	2190	33%	87	ETRI	589	14%
29	Boeing	1433	14%	225	Evonik	196	4%
232	Borgwarner	189	-6%	135	Exxon Mobil	356	-6%
258	Bose	169	20%	34	Facebook	1317	78%
88	Boston Scientific	582	13%	75	Fanuc	668	70%
175	Bridgestone	272	8%	271	Fila Korea	160	3%
292	<i>Bristol Myers Squibb</i>	150	New	13	Ford	2519	17%
84	Broadcom	595	72%	157	Fraunhofer	305	47%
60	Brother	782	28%	230	Fresenius	192	49%
225	<i>Cadence</i>	196	New	107	Fuji Electric	473	41%
229	Cal Tech	194	23%	31	Fujifilm	1375	11%
3	Canon	4102	15%	281	Fujikura	155	11%
79	Capital One	625	232%	36	Fujitsu	1282	-1%
134	Carl Zeiss	367	0%	6	GE	3110	19%
188	Casio	259	26%	30	GM	1404	17%
98	Caterpillar	525	6%	287	GoPro	153	30%
112	CEA	433	0%	196	Haier	242	37%
72	<i>China Star Optoelectronics</i>	678	New	41	Halliburton	1112	25%

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267	Harvard University	162	▲ 21%	154	Magna	308	▲ 19%
239	Henkel	185	▲ 26%	212	Mahle	217	▲ 39%
240	Here Holding	184	▲ 10%	156	Marvell	307	▼ -5%
24	Hitachi	1546	▲ 18%	184	Mastercard	262	▲ 79%
102	Hon Hai	499	▬ 4%	221	Mazda	200	▲ 26%
42	Honda	1104	▲ 15%	107	Mediatek	473	▼ -21%
35	Honeywell	1295	▲ 13%	28	Medtronic	1446	▲ 10%
47	HP Inc.	959	▲ 31%	208	Merck	225	▬ 0%
56	HPE	818	▲ 57%	253	Merck & Co.	172	▼ -3%
298	<i>HRL Laboratories</i>	147	<i>New</i>	277	Michelin	158	▲ 11%
283	HTC	154	▲ 10%	243	<i>Micro Focus</i>	181	<i>New</i>
7	Huawei	2938	▲ 33%	263	Microchip Technology	164	▼ -15%
274	<i>Hubbell</i>	159	<i>New</i>	37	Micron	1276	▲ 37%
23	Hyundai	1561	▬ 1%	5	Microsoft	3144	▲ 32%
1	IBM	9477	▬ 4%	122	MIT	403	▲ 14%
277	IGT	158	▬ 4%	271	Mitsubishi Chemical	160	▲ 21%
158	Illinois Tool Works	300	▲ 11%	33	Mitsubishi Electric	1333	▲ 12%
233	Immersion	188	▲ 32%	104	Mitsubishi Heavy Industries	490	▲ 45%
55	Infineon	849	▼ -3%	206	Motorola Solutions	226	▲ 53%
277	Ingersoll-Rand	158	▲ 27%	62	Mubadala Investment	771	▼ -6%
283	<i>Innolux</i>	154	<i>New</i>	48	Murata Manufacturing	933	▲ 25%
4	Intel	3680	▲ 8%	45	NEC	1011	▲ 22%
146	Intellectual Ventures	327	▼ -42%	292	Nestle	150	▼ -9%
142	Interdigital	339	▼ -10%	248	<i>NetApp</i>	177	<i>New</i>
274	<i>Intuit</i>	159	<i>New</i>	250	NGK Insulators	176	▲ 38%
245	Intuitive Surgical	180	▲ 37%	183	Nichia	263	▲ 21%
149	ITRI	322	▲ 11%	190	Nidec	253	▲ 30%
71	Japan Display	685	▲ 11%	212	<i>Nielsen</i>	217	<i>New</i>
292	JFE	150	▲ 13%	107	Nike	473	▲ 21%
233	Johns Hopkins University	188	▲ 28%	173	Nikon	275	▲ 15%
26	Johnson & Johnson	1474	▲ 44%	179	Nippon Steel	265	▲ 24%
163	Johnson Controls	295	▬ 4%	101	Nissan	504	▲ 13%
225	Jtek	196	▬ 4%	281	Nitto Denko	155	▼ -3%
161	Juniper Networks	296	▲ 11%	49	Nokia	905	▬ 1%
263	Kawasaki Heavy Industries	164	▼ -1%	256	Northrop Grumman	171	▲ 10%
199	KFUPM	236	▲ 8%	195	Novartis	243	▼ -8%
202	<i>KLA</i>	234	<i>New</i>	161	NTT	296	▲ 18%
283	Kobe Steel	154	▲ 14%	261	Nvidia	165	▼ -17%
148	Koch Industries	326	▲ 86%	77	NXP	646	▼ -7%
74	Konica Minolta	672	▬ 2%	66	Olympus	712	▲ 6%
40	Koninklijke Philips N.V.	1194	▼ -10%	168	Omron	283	▲ 44%
43	Kyocera	1085	▬ 2%	142	ON Semiconductor	339	▼ -3%
186	Lam Research	261	▼ -6%	259	Open Invention Network	168	▲ 30%
78	Lenovo	628	▲ 8%	52	Oracle	888	▲ 20%
59	LG Chem	795	▲ 31%	126	Osram	387	▲ 30%
53	LG Display	866	▲ 28%	20	Panasonic	2033	▲ 8%
9	LG Electronics	2810	▲ 13%	224	Partners Healthcare	197	▼ -13%
123	LG Innotek	402	▼ -5%	171	Paypal	276	▲ 19%
141	Lockheed Martin	340	▲ 32%	69	Porsche	693	▲ 38%
263	L'Oreal	164	▼ -5%	93	Procter & Gamble	548	▲ 5%

2019 Patent Owners

Alphabetical Listing

The total number of patents granted by the USPTO in 2019 was 354,507, up 15.2 percent from 2018. The data for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2018 and 2019, and many other factors. New organizations on the list are colored BLUE and italicized.

Rank	Organization	2019 Patents	Change from 2018	Rank	Organization	2019 Patents	Change from 2018
297	Purdue University	148	▲ 17%	191	Sumitomo Chemical	251	▲ 17%
139	<i>Pure Storage</i>	341	New	70	Sumitomo Electric	689	▲ 43%
289	Qorvo	151	▼ -6%	159	Sumitomo Rubber	299	▲ 31%
17	Qualcomm	2376	▼ 0%	218	Sun Patent Trust	203	▬ 0%
221	Rambus	200	▲ 29%	289	Synaptics	151	▼ -23%
124	Raytheon	398	▲ 23%	283	<i>Synopsys</i>	154	New
97	Renesas	530	▼ -8%	182	Tata Sons	264	▲ 110%
46	Ricoh	994	▼ -6%	88	TCL	582	▼ -39%
38	Robert Bosch	1272	▼ -2%	95	TDK	545	▲ 36%
102	Roche	499	▼ -3%	151	TE Connectivity	321	▬ 4%
267	Rockwell Automation	162	▼ -6%	111	Tencent	450	▲ 40%
179	Rohm	265	▬ 1%	214	Terumo	216	▲ 28%
85	Rolls-Royce	593	▲ 50%	50	Texas Instruments	902	▲ 13%
81	Safran	615	▲ 20%	204	Textron	230	▲ 49%
187	Saint-Gobain	260	▲ 38%	228	Thales	195	▲ 7%
145	Salesforce.com	332	▲ 64%	137	Thermo Fisher Scientific	348	▬ 4%
127	Samsung Electro-Mechanics	383	▲ 16%	231	Thyssenkrupp	191	▲ 48%
2	Samsung Electronics	8735	▲ 9%	240	<i>Tianma Microelectronics</i>	184	New
129	Samsung SDI	381	▲ 13%	237	Tivo	187	▼ -4%
165	Sanofi	292	▲ 13%	116	Tokyo Electron	414	▲ 6%
73	SAP	674	▲ 50%	253	Toray Industries	172	▼ -9%
96	Saudi Aramco	536	▲ 62%	25	Toshiba	1495	▼ -11%
216	Saudi Basic Industries	209	▲ 28%	65	Toshiba Memory	726	▬ 4%
171	Schaeffler	276	▲ 6%	10	Toyota	2705	▲ 6%
51	Schlumberger	894	▲ 42%	170	Tsinghua University	278	▲ 60%
197	Schneider Electric	240	▲ 45%	18	TSMC	2352	▼ -6%
125	Seagate	390	▼ -2%	136	United Microelectronics	350	▬ 2%
32	Seiko Epson	1346	▬ 5%	8	United Technologies	2847	▲ 31%
68	Semiconductor Energy Lab	701	▼ -20%	242	Univ of Michigan	183	▲ 30%
54	Sharp	856	▲ 28%	67	University of California	706	▲ 20%
202	Shimadzu	234	▲ 72%	149	University of Texas System	322	▲ 50%
233	Shimano	188	▲ 20%	269	US Health & Human Services	161	▬ 5%
211	Shin-Etsu Chemical	218	▼ -12%	146	US Navy	327	▲ 11%
21	Siemens	1684	▲ 18%	206	USAA	226	▲ 66%
142	<i>Signify</i>	339	New	120	Valeo	405	▲ 22%
58	SK Hynix	804	▬ 0%	76	Verizon	655	▬ 1%
287	SKF	153	▼ -12%	200	Visa	235	▲ 46%
166	Skyworks	286	▲ 39%	113	Walmart	418	▲ 115%
200	SMIC	235	▲ 41%	260	Weatherford	166	▲ 21%
299	Smith & Nephew	146	▼ -7%	274	<i>Wells Fargo</i>	159	New
82	Softbank	612	▼ -10%	64	Western Digital	743	▬ 1%
251	Sonos	174	▼ -7%	160	Whirlpool	298	▼ -6%
11	Sony	2675	▲ 24%	253	Wisconsin Alumni Research	172	▬ 1%
271	<i>Splunk</i>	160	New	117	Xerox	410	▼ -9%
210	Stanford University	219	▼ -10%	168	Xiaomi	283	▲ 27%
177	State Farm Insurance	269	▲ 35%	233	Xilinx	188	▲ 37%
127	State Univ. System of FL	383	▲ 10%	131	Yazaki	375	▲ 15%
61	STMicroelectronics	775	▲ 9%	153	ZF Friedrichshafen	311	▲ 37%
132	Stryker	374	▲ 47%	194	Zimmer Biomet	244	▼ -1%
289	<i>Subaru</i>	151	New	115	ZTE	416	▼ -13%



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 – Krish Gupta, Dell Technologies

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USPTO Art Unit Group Description	Total Patents
Electrical/Circuits and Systems	37978
Semiconductors/Memory	63120
Optics	33612
Printing/Measuring and Testing	46922
Multiplex and VoIP	40188
Thermal & Combustion Technology	32884
Mobility & Fuel Power Systems	23710
Cryptography and Security	23279
Selective Visual Display Systems	22979
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	58357
Transmission Of Digital Information, E.G. Telegraphic Communication	55084
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 OAs	Average RCEs	Pendency (Days)	Interview Success	Extension Per OA	Pre-Appeal Success
INTERNATIONAL BUSINESS MACHINES CORP.	1	10888	1.8	0.5	922.8	37.3%	5.9%	5.9%
SAMSUNG ELECTRONICS CO., LTD.	2	10816	2.2	0.5	969.9	34.4%	6.5%	6.5%
CANON INC.	3	10037	1.6	0.5	864.1	42.3%	20.6%	18.47%
INTEL CORPORATION	4	11351	1.9	0.4	1032.6	41.7%	18.47%	18.47%
ALPHABET INC.	5	8621	1.8	0.5	981.0	32.8%	11.12%	11.12%
MICROSOFT CORPORATION	6	8621	2.4	0.8	1193.8	39.2%	18.9%	18.9%
LG ELECTRONICS INC.	7	8407	1.8	0.4	1083.4	39.6%	24.3%	24.3%
GENERAL ELECTRIC COMPANY	8	8253	1.8	0.4	1189.9	21.4%	13.4%	13.4%
TOYOTA MOTOR CORPORATION	9	7922	1.9	0.6	1095.7	26.0%	7.94%	7.94%
QUALCOMM, INC.	10	7817	2.3	0.8	1040.9	35.1%	4.9%	4.9%
SONY CORPORATION	11	7618	2.3	0.7	1158.3	32.1%	7.9%	7.9%
HUAWEI INVESTMENT & HOLDING CO., LTD.	12	7500	1.5	0.5	896.6	38.9%	7.9%	7.9%
TAIWAN SEMICONDUCTOR MFG. CO. LTD.	13	7548	1.8	0.4	792.3	34.5%	17.27%	17.27%
APPLE INC.	14	7293	1.8	0.5	1000.0	35.3%	23.32%	23.32%
AMAZON.COM, INC.	15	7003	1.8	0.5	1129.3	32.2%	22.4%	22.4%
UNITED TECHNOLOGIES CORPORATION	16	6946	1.6	0.4	1264.2	46.0%	6.74%	6.74%
FORD MOTOR COMPANY	17	6856	1.5	0.5	911.2	35.0%	2.8%	2.8%
DELL TECHNOLOGIES INC.	18	6617	1.9	0.5	1071.0	35.1%	18.6%	18.6%
ROKASSON CORPORATION	19	5997	1.6	0.6	953.3	42.0%	10.9%	10.9%
BOE TECHNOLOGY GROUP CO. LTD.	20	5635	1.7	0.4	1000.9	27.0%	1.0%	1.0%
TELEFONAKTIEBOLAGET LM ERICSSON	21	4802	1.9	0.4	1064.2	35.8%	8.3%	8.3%
SIEMENS AG	22	4708	1.7	0.4	1295.6	40.6%	6.53%	6.53%
HYUNDAI MOTOR COMPANY	23	4659	1.5	0.5	820.0	36.1%	1.0%	1.0%
TOSHIBA CORPORATION	24	4617	1.4	0.5	853.3	41.7%	14.27%	14.27%
HITACHI, LTD.	25	4469	1.4	0.5	1281.8	43.4%	17.63%	17.63%
Total	1	992027	1.7	0.4	1055.6	39.6%	16.14%	16.14%

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END NOTES:

1. "New" in the percent change column indicates that the company was not on the 2018 list.
2. 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.
3. 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 2019 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.
4. IPO has published this report annually since 1984 as a service to its members. For annual lists, go to <https://www.ipo.org/index.php/resources/>.
5. 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, warrantee, or guarantee by either IPO or Harrity Analytics of the other party's products or services.
6. 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@ipo.org by 1 January 2021.