



APPENDIX TABLE 8-8

USPTO patents granted in digital communication, by region, country, or economy: 2000-16

(Number)

Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	4,233	4,426	4,823	5,292	6,436	6,318	9,818	9,003	10,354	12,000	16,182	17,645	21,048	23,942	28,395	27,932	28,932
North America	2,743	2,819	2,999	3,298	4,142	4,054	6,304	5,656	6,385	7,478	9,851	10,359	11,973	13,384	16,024	16,070	15,892
Canada	147	149	146	169	212	193	303	290	380	423	583	653	825	981	1,138	1,024	878
Mexico	1	2	3	3	2	3	2	0	1	0	1	1	2	1	1	2	5
Puerto Rico	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1	1	0
United States	2,595	2,668	2,850	3,126	3,927	3,858	5,999	5,366	6,004	7,054	9,267	9,705	11,145	12,402	14,882	15,044	15,009
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Central and South America	1	0	2	0	2	2	4	4	5	7	9	9	15	26	30	30	31
Argentina	0	0	0	0	0	0	0	3	0	1	3	1	4	8	6	6	7
Brazil	0	0	2	0	1	1	1	1	3	3	2	6	7	12	17	20	17
All others	1	0	0	0	0	0	3	1	2	3	4	2	4	6	6	4	6
Europe	592	631	743	848	969	937	1,359	1,221	1,405	1,476	2,037	2,293	2,774	3,254	3,998	3,751	4,042
EU	577	609	719	818	935	900	1,308	1,170	1,339	1,405	1,937	2,182	2,647	3,125	3,821	3,551	3,803
Austria	3	3	7	7	7	6	13	5	10	18	23	23	29	32	38	36	41
Belgium	7	9	11	13	23	26	29	19	28	39	44	51	55	56	68	65	79
Denmark	2	2	5	12	8	16	26	21	16	22	26	33	37	44	37	57	37



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	86	99	134	159	221	152	258	255	270	260	333	285	326	373	433	389	410
France	95	99	109	120	135	128	194	187	236	194	303	341	384	440	504	431	435
Germany	106	114	132	176	170	195	313	259	292	351	461	503	522	617	748	690	693
Hungary	1	0	0	6	3	5	5	9	7	11	14	23	26	39	54	45	52
Ireland	3	12	11	12	24	11	15	12	18	14	33	40	38	45	66	70	100
Italy	8	5	11	13	15	11	32	27	38	49	64	103	120	137	124	110	105
Netherlands	29	22	28	27	34	46	58	38	54	63	79	97	107	131	161	138	160
Spain	2	4	5	3	8	6	9	18	17	18	22	27	60	82	84	76	69
Sweden	126	123	146	133	124	119	116	81	86	98	157	241	402	483	692	657	772
United Kingdom	107	117	119	133	161	174	236	228	255	247	349	384	477	583	726	705	734
All others	1	0	1	4	2	4	6	11	10	21	29	31	64	62	87	82	115
Other Europe	15	22	24	30	35	38	51	50	66	72	100	111	127	129	177	201	239
Former Soviet Union	0	1	0	0	0	1	0	2	1	0	2	1	3	4	4	5	6
Norway	1	5	6	7	6	8	5	9	10	13	15	8	13	9	22	27	36
Russia	2	2	2	1	4	2	6	7	16	14	21	31	41	35	45	56	59
Switzerland	9	8	12	20	21	23	38	30	37	44	59	66	67	74	95	98	124
All others	3	5	4	3	4	4	2	3	2	1	2	4	4	7	11	15	14
Asia	848	905	992	1,035	1,200	1,176	1,955	1,945	2,350	2,761	3,898	4,589	5,816	6,726	7,671	7,401	8,214
China	5	3	3	6	10	18	58	48	84	150	332	481	752	1,115	1,576	1,533	2,043



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
India	1	4	6	12	18	22	38	55	83	83	172	184	269	370	550	654	795
Japan	693	722	772	822	884	864	1,375	1,248	1,365	1,553	1,995	2,205	2,592	2,753	2,776	2,424	2,260
Malaysia	0	0	1	1	2	1	2	3	4	5	7	7	7	8	15	9	28
Singapore	5	3	15	10	10	6	15	19	14	35	35	38	41	31	42	40	45
South Korea	117	150	160	153	214	205	351	418	623	749	1,093	1,359	1,682	1,953	2,171	2,223	2,534
Taiwan	25	21	35	30	61	57	113	153	176	182	260	314	465	484	526	511	501
All others	3	2	0	0	2	1	3	1	2	3	3	2	7	11	15	7	8
Middle East	38	59	76	95	103	117	147	126	142	213	303	296	360	431	529	560	598
Israel	38	58	75	93	102	116	146	125	141	210	297	287	343	406	505	530	568
All others	0	1	1	1	1	1	2	1	1	3	6	9	17	25	24	29	30
Africa	2	1	1	1	3	3	2	2	3	1	6	4	6	9	11	12	31
South Africa	2	0	1	0	2	2	1	1	2	0	3	2	3	4	6	9	20
All others	0	1	0	1	1	1	1	1	1	1	3	2	4	5	5	3	11
Australia and Oceania	9	12	9	15	17	29	46	49	65	63	77	96	104	113	131	106	123
Australia	9	11	8	13	17	26	43	48	64	59	71	87	95	105	122	97	116
New Zealand	0	1	1	2	1	3	3	1	2	4	6	8	9	8	9	9	6
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Unclassified	1	0	0	0	0	0	0	0	1	0	0	0	1	1	1	2	0



EU = European Union; USPTO = U.S. Patent and Trademark Office.

Note(s)

Patents are allocated according to patent inventorship information. Patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. The EU includes 28 member countries. China includes Hong Kong. Patents are classified under the World Intellectual Property Organization (WIPO) classification of patents, which classifies International Patent Classification (IPC) codes under 35 technical fields. IPC reformed codes take into account changes that were made to the WIPO classification in 2006 under the eighth version of the classification and were used to prepare these data. However, because PatentsView only provides the original IPC codes as they appeared on patents and not the IPC reformed codes, current Cooperative Patent Classification codes on patents were converted back to the most recent IPC classification to prepare these statistics. Fractional counts of patents were assigned to each technological field on patents to assign the proper weight of a patent to the corresponding technological fields under the classification.

Source(s)

Science-Metrix; PatentsView and USPTO patent data, accessed April 2017.

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