



APPENDIX TABLE 8-7

USPTO patents granted in telecommunications, 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	5,502	5,748	5,886	6,047	6,516	5,998	8,317	6,928	7,076	7,225	8,571	9,200	11,357	12,107	12,513	11,732	11,106
North America	3,006	3,163	3,196	3,186	3,533	3,202	4,402	3,593	3,463	3,564	4,143	4,496	5,293	5,776	5,981	5,523	5,164
Canada	161	168	147	158	183	174	246	207	195	226	252	306	393	441	455	390	349
Mexico	1	1	1	3	5	3	2	1	0	0	1	0	1	2	3	2	9
Puerto Rico	1	0	0	0	1	0	1	0	0	0	0	0	2	1	1	1	1
United States	2,843	2,994	3,047	3,026	3,345	3,025	4,153	3,385	3,268	3,338	3,890	4,190	4,897	5,332	5,522	5,130	4,805
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Central and South America	2	0	2	0	1	0	2	1	4	6	5	7	8	5	18	14	11
Argentina	1	0	0	0	0	0	0	0	0	3	0	2	2	2	3	3	3
Brazil	1	0	1	0	0	0	1	1	3	2	2	4	4	2	13	8	6
All others	0	0	1	0	0	0	0	0	1	2	3	1	2	2	3	3	3
Europe	767	856	892	926	929	819	1,089	877	875	824	1,023	989	1,242	1,362	1,497	1,471	1,485
EU	744	828	863	897	886	783	1,043	847	842	794	976	945	1,191	1,311	1,441	1,403	1,400
Austria	8	3	6	13	10	17	13	7	16	12	18	20	30	19	35	27	28
Belgium	12	14	8	15	19	19	24	18	21	17	17	14	13	24	27	30	32
Denmark	13	13	16	17	12	14	19	15	15	11	13	12	26	34	44	27	37



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	95	96	109	132	119	100	138	130	111	116	123	112	97	120	109	103	114
France	117	139	137	129	134	108	163	108	112	111	142	132	180	195	183	215	203
Germany	150	198	205	241	263	234	296	257	218	217	256	210	273	281	360	305	302
Hungary	1	1	0	6	1	1	2	2	1	2	3	0	4	2	6	2	6
Ireland	3	4	4	5	11	6	9	5	9	10	17	14	22	20	24	36	31
Italy	16	20	19	26	30	28	37	31	44	29	48	47	55	75	79	65	65
Netherlands	33	27	27	21	34	19	30	27	46	26	33	41	60	68	62	66	65
Spain	5	6	3	10	7	9	23	18	26	18	16	27	45	41	37	47	35
Sweden	130	131	146	125	70	77	85	56	65	68	127	126	152	175	214	213	233
United Kingdom	161	174	179	156	173	145	198	167	152	146	150	169	211	232	242	241	216
All others	1	2	2	2	4	6	5	5	6	11	14	19	23	25	21	27	33
Other Europe	23	28	30	29	43	36	46	30	32	30	46	44	52	51	56	68	85
Former Soviet Union	0	1	0	0	0	0	0	1	0	0	0	4	4	0	0	2	2
Norway	2	3	6	7	6	5	8	6	6	3	7	7	5	5	7	8	9
Russia	3	7	4	2	8	6	7	8	6	10	10	11	12	13	18	28	32
Switzerland	16	15	17	18	22	23	27	13	19	17	27	20	29	32	28	26	36
All others	2	2	3	2	7	2	4	2	1	1	1	2	2	1	3	4	6
Asia	1,668	1,663	1,717	1,839	1,935	1,875	2,643	2,322	2,596	2,684	3,218	3,500	4,602	4,743	4,753	4,480	4,216
China	8	7	3	12	20	23	41	40	59	94	165	243	386	395	539	504	529



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
India	1	2	3	2	6	7	10	18	21	16	24	34	62	83	100	123	122
Japan	1,401	1,373	1,415	1,453	1,546	1,475	2,008	1,617	1,756	1,790	2,102	2,167	2,809	2,784	2,713	2,462	2,105
Malaysia	1	3	1	0	3	1	1	4	4	6	3	5	6	5	5	11	14
Singapore	5	10	13	10	12	10	15	12	10	13	12	15	32	24	23	20	23
South Korea	158	156	157	201	180	210	317	341	412	442	565	626	821	973	917	926	980
Taiwan	91	111	124	161	168	149	250	290	332	324	345	410	480	474	452	431	438
All others	2	0	0	0	1	0	0	0	1	0	1	1	5	4	4	3	5
Middle East	38	43	43	66	77	58	96	78	78	82	101	109	157	182	211	198	179
Israel	38	42	43	65	77	58	94	77	77	82	99	107	151	177	196	182	167
All others	0	1	1	0	0	1	1	1	0	0	2	3	6	5	16	15	11
Africa	2	2	3	1	3	3	3	3	2	2	3	2	5	3	6	8	4
South Africa	1	2	3	1	3	1	2	2	2	2	3	1	1	1	3	5	2
All others	1	1	0	0	0	2	1	1	0	0	0	1	4	1	3	3	2
Australia and Oceania	19	19	32	30	37	41	84	55	60	61	77	94	48	36	47	38	45
Australia	15	14	28	21	36	38	79	54	57	59	74	88	43	32	40	35	44
New Zealand	3	5	4	9	1	3	5	1	3	2	3	6	6	4	6	3	1
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified	2	2	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1



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, 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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