



APPENDIX TABLE 8-9

USPTO patents granted in basic communication processes, 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	3,063	3,340	3,489	3,587	3,668	3,303	4,322	4,142	4,032	4,256	4,897	4,628	4,557	5,060	5,124	4,678	4,675
North America	1,628	1,816	1,890	1,971	1,920	1,720	2,141	2,074	1,869	1,935	2,184	1,993	1,960	2,218	2,215	2,065	1,998
Canada	61	63	60	62	74	67	62	77	67	58	89	84	96	130	130	120	97
Mexico	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	2	2
Puerto Rico	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
United States	1,567	1,753	1,829	1,908	1,845	1,652	2,080	1,997	1,802	1,877	2,093	1,907	1,863	2,086	2,084	1,943	1,898
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Central and South America	0	0	0	1	0	0	2	0	1	1	4	3	4	2	7	6	6
Argentina	0	0	0	0	0	0	2	0	0	1	1	1	1	1	1	1	0
Brazil	0	0	0	0	0	0	0	0	1	0	3	2	3	0	6	4	4
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Europe	426	460	490	578	527	491	701	591	579	606	693	654	674	749	811	737	773
EU	409	441	476	560	509	468	662	566	551	579	654	597	622	689	752	670	705
Austria	6	6	5	17	26	24	42	26	41	42	57	43	32	32	48	42	46
Belgium	6	7	7	6	8	10	9	6	8	9	15	10	17	11	10	13	13
Denmark	3	4	8	8	11	5	15	7	16	10	10	12	13	8	14	11	7



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	12	27	35	41	25	28	29	26	13	12	30	20	13	21	20	18	21
France	81	65	72	74	86	68	88	87	84	91	96	92	134	150	119	127	113
Germany	115	108	120	177	148	149	216	186	199	197	213	165	158	179	193	197	206
Hungary	0	0	0	1	1	1	0	1	0	1	1	0	0	1	2	1	0
Ireland	5	6	5	14	12	14	18	20	18	8	13	18	16	19	29	26	21
Italy	48	57	50	39	33	24	42	33	34	41	43	30	33	39	60	46	53
Netherlands	34	38	49	54	45	29	59	58	45	42	48	61	57	77	71	54	57
Spain	2	3	0	1	1	1	1	2	3	7	5	2	4	7	6	5	5
Sweden	35	47	41	36	35	32	36	24	24	30	29	45	38	42	46	28	41
United Kingdom	62	72	82	90	76	78	99	81	61	77	83	84	89	88	107	90	106
All others	1	1	1	3	2	3	6	8	6	14	10	17	18	15	25	12	15
Other Europe	17	20	14	17	18	23	39	25	28	27	40	57	52	59	59	67	68
Former Soviet Union	0	1	0	0	0	0	1	0	0	0	0	1	5	5	2	2	4
Norway	1	4	3	2	1	1	6	6	1	1	8	5	7	10	8	11	12
Russia	4	6	2	3	2	4	3	3	6	4	6	7	16	7	6	9	9
Switzerland	12	10	9	12	15	18	28	15	21	22	26	40	21	35	42	40	40
All others	0	0	0	1	1	0	1	0	1	0	0	3	2	2	1	4	3
Asia	981	1,036	1,078	991	1,184	1,044	1,425	1,424	1,529	1,666	1,956	1,916	1,860	1,996	1,991	1,779	1,816
China	4	5	7	9	8	10	20	20	42	43	69	75	113	123	156	157	196





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

**Note(s)**

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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)**

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

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