

TABLE S8-29

USPTO patents and patent families granted in handling, by region, country, or economy: 1998–2018

(Number)

Region, country, or economy	1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		
	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families	USPTO patents	Patent families			
China	6	18	7	26	3	48	6	60	7	77	14	136	10	177	15	200	16	276	13	355	15	482	21	853	33	1,080	29	1,741	56	2,562	84	2,541	102	3,201	118	6,998	113	9,586	118	11,206	159	11,483	
India	2	0	1	0	2	1	0	0	1	1	0	0	3	2	3	0	0	1	2	0	2	1	0	1	1	2	2	9	4	4	2	5	3	13	7	13	4	13	2	12	2		
Japan	396	4,536	421	4,597	397	3,106	452	3,128	474	3,502	453	3,686	408	3,632	312	3,842	403	4,127	353	5,180	442	5,269	467	5,929	647	5,921	678	6,271	673	6,570	795	6,271	839	6,571	890	4,413	857	5,490	880	4,838	875	4,657	
Malaysia	4	4	1	0	1	1	0	0	0	0	0	3	4	3	1	1	3	7	1	20	3	4	4	2	2	1	9	3	8	1	11	4	3	8	3	8	1	8	1	11	5	14	
Singapore	3	3	0	1	4	4	4	4	4	4	7	7	3	4	4	4	6	4	8	6	2	2	4	6	5	4	6	2	6	3	8	9	6	3	9	4	6	4	9	4	7	3	
South Korea	43	292	53	581	43	304	55	223	34	327	38	444	30	534	26	866	43	1,437	33	1,375	42	1,194	56	821	55	986	51	1,440	66	1,898	86	2,406	95	2,369	87	1,841	93	2,135	116	2,347	98	2,460	
Taiwan	71	97	92	115	94	114	82	117	102	147	103	147	88	144	63	138	65	225	55	321	66	180	88	224	99	256	89	292	114	287	111	315	108	303	110	238	93	431	102	400	96	279	
All others	2	3	0	0	0	1	2	4	2	4	2	1	1	1	0	0	2	2	1	1	1	1	1	2	3	6	2	3	2	5	2	4	9	7	3	7	6	8	7	6	2		
Middle East	10	5	8	4	14	10	6	3	10	9	12	12	8	7	10	7	8	7	9	4	6	4	9	5	14	6	12	11	20	21	20	13	30	14	26	14	32	12	29	16	32	14	
Israel	8	4	6	3	12	8	5	3	9	4	12	8	6	10	5	6	6	5	9	3	6	4	8	4	13	5	16	12	17	8	24	11	24	9	24	9	22	10	26	8	26	8	
All others	1	1	2	1	1	2	0	1	1	5	0	4	1	1	0	2	1	4	0	1	1	1	1	1	3	6	5	9	3	5	6	3	2	6	7	4	7	6	7	6	6		
Africa	7	36	9	34	7	19	6	34	7	18	7	26	7	26	10	23	4	10	4	16	5	26	6	22	8	15	4	10	9	16	4	10	4	9	5	6	6	2	8	4	4		
South Africa	7	33	7	25	7	9	6	23	7	14	5	16	4	20	4	13	2	8	3	14	4	23	3	20	8	15	4	2	9	3	6	3	2	6	3	4	1	6	1	5	1		
All others	0	3	2	9	0	10	0	11	0	5	2	11	3	6	7	10	3	1	1	2	1	3	3	2	0	0	8	0	7	0	4	1	3	3	2	2	5	0	2	3	3		
Australia and Oceania	28	44	33	35	27	44	41	73	31	61	37	33	34	82	26	62	32	61	28	73	28	61	33	67	43	78	30	82	36	75	41	80	47	69	47	88	46	96	47	43	50	58	
Australia	19	43	25	33	24	43	34	73	27	60	34	31	27	81	22	60	26	59	25	73	26	60	32	67	36	76	26	81	28	73	33	77	39	69	37	87	41	94	38	41	43	58	
New Zealand	9	0	7	2	3	1	7	0	3	1	3	2	6	1	5	1	6	2	4	1	2	1	1	0	7	2	4	1	8	2	8	2	8	1	10	1	6	1	8	2	6	0	
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified	0	9	2	13	2	23	1	2	0	2	0	0	0	3	0	17	0	3	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	1	1	1	1	0	0	1	2	

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

Note(s)

USPTO patents are allocated according to patent inventorship information. USPTO patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. 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. International Patent Documentation (INPADOC) patent families across all patent offices covered in the Worldwide Patent Statistical Database (PATSTAT) are counted according to the year of the first granted patent in the patent family. Patent families are allocated according to patent inventorship information found on the priority patent of the INPADOC patent families. To account for missing ownership information in PATSTAT for some offices, a method designed by de Rassenfosse et al. (2012) is used to fill in missing information on priority patents using information in successive filings within the patent families (see technical documentation for details). Patent families are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. Because of data coverage issues for some patent offices in PATSTAT, statistics for some countries may be underestimated partially for some years or across the whole trend. Countries with identified issues include India (missing data) and South Africa (no data for 2018). For Italy, because of data gaps regarding information on granted patents, patent applications are used instead, which slightly overestimates Italy's output and creates a small shift in the year for which its output is accounted. The EU includes 28 member countries. China includes Hong Kong.

Source(s)

Science-Matrix; PATSTAT, accessed April 2019; PatentsView, USPTO, accessed June 2019.