

TABLE S8-38

USPTO patents and patent families granted in other consumer goods, 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			
World	3,562	6,751	3,958	8,217	3,673	6,640	3,533	5,903	3,327	5,469	2,953	6,210	2,891	6,651	2,401	7,180	2,675	7,898	2,457	8,428	2,409	7,044	2,330	7,409	3,175	7,537	3,089	9,267	3,446	11,252	3,688	9,754	3,899	9,603	4,062	9,393	4,280	11,316	4,573	11,426	4,575	11,893	
North America	2,321	1,911	2,584	2,031	2,411	1,817	2,191	1,596	2,033	1,365	1,831	1,139	1,506	1,382	1,477	987	874	1,626	1,382	1,382	987	760	1,358	744	1,897	933	1,756	2,029	2,296	908	2,481	948	2,296	908	2,605	989	2,674	954	2,753	969			
Canada	77	69	93	82	102	82	86	61	79	59	81	54	47	52	59	53	49	46	46	59	53	46	52	68	47	59	45	81	45	86	60	91	62	90	46	104	52	103	57	94	47		
Mexico	2	2	3	1	2	1	4	3	9	3	5	3	3	4	1	2	0	2	0	2	0	1	0	0	1	5	1	3	1	5	3	7	1	5	2	11	6	11	8	9			
Puerto Rico	2	1	1	1	2	0	1	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2	0	2	0	0				
United States	2,241	1,839	2,488	1,947	2,304	1,733	2,100	1,532	1,944	1,302	1,744	1,139	1,704	1,076	1,455	821	1,574	935	1,414	841	1,330	714	1,312	693	1,825	884	1,692	806	1,942	897	2,050	885	2,196	845	2,386	926	2,491	921	2,563	886	2,649	912	
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				
Central and South America	3	1	8	6	9	10	4	8	7	8	12	6	7	6	9	6	9	9	4	5	10	8	8	22	8	21	8	20	8	13	12	15	15	13	10	8	8	15	8	19	8	18	
Argentina	1	0	2	1	2	2	1	0	0	1	1	0	4	1	1	1	4	1	4	1	1	1	1	3	2	6	1	3	1	0	3	0	2	0	1	1	0	1	0	0			
Brazil	1	1	4	1	3	5	1	3	6	6	8	3	4	4	2	3	5	7	3	3	1	6	4	17	5	15	3	15	4	11	8	14	12	13	11	4	7	10	7	14	16		
All others	1	0	2	3	4	4	3	5	1	2	4	2	3	2	3	1	3	3	3	1	3	3	3	3	2	4	2	4	1	2	1	1	3	4	3	1	3	4	2				
Europe	471	1,665	479	1,596	538	1,639	574	1,466	517	1,392	435	1,485	436	1,847	345	1,644	388	1,520	362	1,500	356	1,300	337	1,486	470	1,262	515	1,712	572	2,851	648	1,173	668	1,268	616	1,298	660	1,536	728	1,645	726	1,637	
EU	438	1,333	449	1,342	499	1,418	525	1,221	489	1,189	399	1,243	409	1,520	322	1,354	354	1,237	333	1,088	325	1,014	311	893	422	998	471	1,043	518	1,102	591	984	608	1,035	547	1,070	603	1,123	640	1,395	633	1,367	
Austria	12	30	14	32	21	27	21	43	19	47	14	31	9	31	5	22	14	53	12	22	16	44	4	27	15	30	13	47	15	40	19	42	19	42	22	18	42	27	40	27	42	23	34
Belgium	8	4	11	5	6	5	7	6	10	9	4	4	9	4	11	6	6	5	4	4	3	3	4	7	9	6	14	15	10	9	12	7	13	9	16	7	13	7	20	8	17	18	36
Denmark	7	2	9	3	5	4	3	4	4	4	11	6	5	6	5	6	5	7	2	6	5	4	4	7	4	6	4	3	8	5	7	4	8	11	7	7	10	5	8	3			
Finland	4	16	5	12	3	8	4	11	7	16	4	13	6	9	3	15	8	14	7	12	6	11	4	9	7	4	6	6	10	7	12	6	13	10	6	13	11	13	8	12	13		
France	94	372	127	350	110	334	108	308	99	286	78	325	72	354	66	327	81	386	60	392	76	303	53	237	78	269	96	311	83	337	87	265	114	352	78	386	91	340	95	305	99	350	
Germany	130	289	125	258	142	280	175	261	168	328	135	301	156	277	100	312	114	368	123	282	101	255	116	222	156	250	174	188	201	235	215	240	220	259	201	249	201	295	180	303	196	279	
Hungary	0	3	0	2	0	3	1	1	0	3	1	4	0	3	1	0	2	0	0	0	0	1	0	1	0	4	1	0	0	1	0	2	0	2	1	2	1	3	1	0	0		
Ireland	3	8	3	4	3	0	4	1	3	2	0	0	1	0	0	4	2	0	1	1	2	0	2	1	2	0	2	1	2	0	7	4	1	4	3	4	1	3	6				
Italy	65	288	48	386	72	418	64	232	55	200	45	207	57	470	44	252	43	37	44	37	41	47	52	41	58	108	48	156	65	110	55	60	64	75	71	62	89	92	345	76	293		
Netherlands	14	76	21	54	21	59	17	66	11	59	11	70	7	81	8	79	11	80	8	74	15	81	15	77	12	50	16	61	20	72	40	65	25	40	39	31	42	30	62	35	41		
Spain	7	48	11	60	6	88	11	84	6	40	9	57	11	58	5	92	9	76	3	87	4	85	4	80	11	75	12	95	15	97	10	90	5	87	17	73	8	72	10	53	9	63	
Sweden	17	39	13	33	18	23	23	43	11	31	15	38	11	57	14	38	10	29	8	30	4	33	5	35	14	31	17	15	14	20	21	12	15	22	12	15	27	23	15	23	14	22	
United Kingdom	76	84	59	81	86	98	84	97	90	93	76	120	62	100	58	113	45	101	55	58	44	72	43	78	56	78	64	80	70	90	107	99	90	72	90	88	85	98	118	140	124	122	
All others	2	74	4	61	6	69	5	64	6	71	2	63	4	71	2	84	5	80	7	83	7	71	4	74	1	86	8	65	8	74	12	65	88	11	84	13	100	14	89	16	105		
Other Europe	33	333	30	254	39	221	48	245	27	203	36	243	27	326	24	283	34	283	29	412	31	286	26	593	48	264	44	669	53	1,749	58	189	59	233	69	227	58	413	88	251	94	270	
Former Soviet Union	0	12	0	18	0	6	0	13	0	17	0	25	0	78	0	21	0	16	0	20	0	16	0	25	0	28	1	33	1	14	0	13	0	13	0	12	0	11	0	16	2	6	
Norway	3	7	2	10	1	6	6	14	3	13	4	13	3	6	2	7	1	8	1	8	1	8	2	3	2	5	0	10	3	7	6	7	11	6	7	2	8	2	7	2	3		
Russia	1	275	0	186	1	169	0	167	1	125	4	170	1	203	1	219	0	186	2	339	2	200	0	507	2	183	1	594	4	1,695	2	124	2	160	2	162	349	4	169	6	201		
Switzerland	28	37	27	36	33	39	39	49	21	44	26	32	19	38	19	36	31	68	24	44	26	61	23	55	44	46	38	31	45	32	43	43	43	46	42	43	39	44	65	53	68	49	
All others	1	1	1	4	3	2	3	2	2	4	2	2	3	1	1	3	3	1	2	1	2	1	3	1	2	2	4	1	1	3	2	9	2	18	4	15	0	6	15	9			
Asia	722	3,109	843	4,525	689	3,108	722	2,746	727																																		

TABLE S8-38

USPTO patents and patent families granted in other consumer goods, 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	31	63	35	67	23	89	37	133	33	125	26	217	35	311	30	400	38	310	33	292	37	556	40	961	60	928	62	1,238	69	1,603	69	1,435	76	1,537	106	3,006	149	4,132	219	4,111	218	4,688	
India	0	0	1	1	0	0	0	0	1	0	0	1	2	2	1	1	3	1	2	4	2	2	2	2	5	3	4	2	10	4	14	2	15	6	14	6	14	9	19	9			
Japan	382	2,268	436	2,442	356	2,174	362	1,928	361	1,798	316	2,069	283	2,035	246	2,300	294	2,395	274	2,784	310	2,588	324	2,909	374	2,966	341	3,103	301	2,942	317	3,020	354	2,837	339	1,881	347	2,206	341	2,162	304	2,176	
Malaysia	0	0	0	0	1	0	0	0	2	0	2	1	2	4	0	1	2	2	1	16	3	2	5	2	3	1	8	2	2	1	5	2	3	9	2	9	2	2	6	8	5	11	
Singapore	2	1	4	1	6	1	1	1	4	2	6	0	1	0	5	1	10	3	3	1	6	1	7	1	10	2	7	1	7	2	10	3	8	1	3	2	2	4	1	3	1		
South Korea	120	567	131	1,750	90	619	63	432	74	434	78	921	90	963	86	1,621	122	2,300	132	2,584	160	1,521	126	1,021	185	1,113	216	2,064	272	2,794	274	2,724	292	1,857	295	2,029	375	2,139	331	2,074			
Taiwan	184	207	232	260	209	220	255	249	249	250	197	239	191	247	132	268	138	268	125	256	110	194	87	170	108	182	122	176	113	206	126	238	112	209	106	225	126	292	117	308	113	231	
All others	3	4	4	4	4	5	4	3	3	3	4	3	1	2	3	14	6	5	2	3	2	1	3	0	2	3	4	4	4	2	5	3	5	3	9	4	5	4	8	2	7	4	
Middle East	16	11	13	8	8	10	14	13	15	12	18	12	15	8	12	6	9	3	10	4	14	11	13	3	13	3	10	6	31	16	40	15	38	17	37	15	34	15	39	12			
Israel	11	9	11	7	8	6	13	8	15	7	18	10	15	7	12	4	9	2	10	2	8	6	13	3	10	3	16	18	5	32	5	27	16	7	8	23	6	27	8	32	5		
All others	0	2	2	1	1	4	1	5	0	4	0	2	0	1	2	0	1	0	2	6	5	0	0	3	1	3	7	3	1	15	9	8	9	12	8	15	9	7	7	7	7		
Africa	2	19	4	16	4	19	4	16	2	22	2	22	2	15	2	15	2	13	0	14	3	11	3	15	3	18	8	4	7	4	7	5	4	3	5	4	3	4	6	6			
South Africa	2	12	3	8	4	8	4	14	2	10	1	9	2	12	7	7	13	2	13	3	8	3	13	2	15	2	1	0	5	4	2	4	4	7	2	3	0	1	0	5	1		
All others	0	7	1	8	0	12	0	2	0	11	1	13	0	5	1	3	0	6	0	1	0	3	0	2	1	3	2	7	1	3	1	5	0	5	2	2	1	3	0	4	2	4	
Australia and Oceania	26	27	27	27	14	35	23	54	27	58	25	40	28	71	28	80	28	76	26	70	20	85	21	68	38	92	36	68	30	99	37	92	40	68	34	99	26	92	36	58	31	58	
Australia	19	26	21	26	13	34	15	52	19	58	21	71	25	71	25	79	23	76	22	70	19	85	18	67	35	92	32	67	32	92	32	92	34	67	29	99	20	91	29	58	24	57	
New Zealand	7	1	6	1	1	1	8	1	8	2	4	2	3	0	3	0	5	0	4	0	1	0	2	2	3	1	4	1	3	1	5	0	6	1	5	0	6	1	7	0	6	1	
All others	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	0
Unclassified	1	8	0	9	0	2	0	5	0	1	0	0	0	1	0	8	0	5	0	3	0	2	1	0	0	0	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0

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.