

Table SINV-39

## International patent families granted in other consumer goods, by region, country, or economy: 1998–2020

(Number)

Region, country, or economy	Economy by income status	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	na	7,415	9,009	7,442	7,005	6,908	7,551	7,896	8,138	9,020	9,511	8,333	8,840	9,140	10,908	13,292	11,699	11,708	11,909	14,098	14,175	14,780	14,347	14,921
North America	na	2,012	2,260	2,029	1,852	1,662	1,565	1,519	1,148	1,304	1,249	1,162	1,164	1,460	1,437	1,600	1,584	1,663	1,893	1,957	1,902	1,896	2,102	2,043
Canada	High	76	101	100	89	76	81	87	59	56	67	67	70	73	73	84	106	95	93	95	103	89	111	89
Mexico	Upper middle	3	2	2	4	7	4	3	1	3	2	1	1	4	4	5	8	4	7	23	12	17	10	4
United States	High	1,933	2,156	1,927	1,759	1,578	1,480	1,429	1,087	1,245	1,180	1,094	1,094	1,384	1,360	1,511	1,470	1,564	1,793	1,839	1,788	1,790	1,982	1,951
Central America and Caribbean	na	2	4	3	2	2	2	1	0	1	0	4	5	1	3	1	1	0	2	0	2	1	1	1
Puerto Rico	High	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
South America	na	4	8	11	9	12	16	16	7	16	10	11	25	29	23	21	18	16	17	14	20	30	28	70
Argentina	Upper middle	2	2	2	1	1	1	3	1	3	3	1	5	5	4	0	1	0	1	0	1	0	4	2
Brazil	Upper middle	2	4	8	5	11	12	10	5	13	6	10	19	24	18	19	16	15	15	11	16	26	24	65
Europe	na	1,901	1,819	1,849	1,761	1,720	1,868	2,207	1,905	1,792	1,761	1,607	1,835	1,666	2,179	3,399	1,651	1,802	1,899	2,304	2,410	2,423	2,360	2,107
EU-27 + UK <sup>a</sup>	na	1,544	1,545	1,605	1,495	1,491	1,591	1,855	1,590	1,479	1,325	1,276	1,198	1,361	1,456	1,565	1,389	1,484	1,573	1,768	2,037	2,024	1,963	1,746
United Kingdom	High	150	135	168	185	183	211	196	186	164	113	124	120	128	122	128	127	98	121	138	183	161	150	177
EU-27 <sup>b</sup>	na	1,394	1,410	1,437	1,309	1,308	1,380	1,659	1,403	1,315	1,212	1,152	1,078	1,233	1,335	1,437	1,262	1,386	1,452	1,630	1,855	1,863	1,812	1,569
Austria	High	30	37	29	48	50	33	32	28	53	28	50	33	36	51	50	51	42	54	56	51	50	49	51
Belgium	High	12	14	9	14	13	13	15	16	12	11	8	15	10	21	18	14	19	25	53	42	42	54	35
Denmark	High	4	6	7	2	5	16	7	10	8	9	7	9	10	8	13	16	12	13	10	11	9	16	10
Finland	High	15	14	9	14	20	17	11	15	16	13	14	11	8	10	13	15	11	16	17	16	16	14	17
France	High	386	368	348	328	297	342	372	338	398	408	320	254	300	334	370	295	373	400	375	327	383	370	342
Germany	High	379	345	359	384	480	483	445	413	486	406	399	398	459	460	528	494	560	574	695	603	585	665	638
Hungary	High	3	2	4	2	3	6	4	3	2	0	1	2	4	0	2	4	1	2	4	1	2	3	5
Ireland	High	11	6	1	3	5	2	1	5	3	6	3	5	2	1	5	9	6	8	5	5	9	8	6
Italy	High	292	390	416	238	207	212	479	256	45	44	59	55	123	176	135	81	94	90	125	524	449	356	225
Netherlands	High	91	67	67	75	71	82	94	90	91	81	89	92	67	79	95	83	59	63	72	87	96	79	71
Spain	High	52	62	88	86	44	63	64	96	80	87	90	83	82	101	105	93	91	82	80	56	69	46	28
Sweden	High	43	36	28	49	35	45	59	45	37	34	38	40	42	26	29	31	22	25	32	34	32	36	45
Other Europe	na	357	274	244	267	229	277	352	316	313	436	331	636	305	723	1,834	262	318	325	536	373	399	397	361
Other Europe-2020 <sup>b</sup>	na	507	409	411	452	412	488	548	502	477	549	455	756	433	844	1,961	389	416	447	673	555	560	548	538
Belarus	Upper middle	1	3	1	3	0	2	4	4	5	3	2	1	1	1	1	0	2	0	3	3	1	4	1
Moldova	Lower middle	3	11	5	3	6	6	6	2	3	1	1	4	1	3	2	1	2	1	2	2	0	1	1
Norway	High	9	11	6	16	14	14	7	9	11	8	9	7	6	13	8	8	13	9	9	8	7	8	6
Russia	Upper middle	277	186	169	168	127	172	203	221	185	340	202	508	184	595	1,696	127	164	163	351	171	208	173	159
Switzerland	High	53	53	58	60	64	52	56	54	89	59	84	73	69	59	74	82	95	88	99	107	105	141	130

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Ukraine	Lower middle	11	5	0	10	14	20	71	21	14	19	14	20	25	30	11	12	10	13	7	13	7	10	3
Asia	na	3,342	4,771	3,408	3,184	3,317	3,866	3,875	4,860	5,709	6,326	5,352	5,642	5,784	7,124	8,100	8,284	8,062	7,943	9,663	9,705	10,295	9,722	10,570
China	Upper middle	78	84	123	149	146	244	346	442	338	356	650	1,065	1,072	1,396	1,834	1,638	1,752	3,310	4,489	4,456	5,106	4,459	5,304
India	Lower middle	0	2	1	0	1	1	2	2	4	3	3	2	6	4	11	11	9	15	16	15	18	22	31
Japan	High	2,446	2,683	2,410	2,138	2,071	2,390	2,251	2,576	2,762	3,027	2,845	3,237	3,195	3,296	3,254	3,443	3,241	2,268	2,676	2,592	2,606	2,467	2,463
Malaysia	Upper middle	0	0	1	0	2	1	5	1	4	16	4	9	10	7	4	9	12	6	5	9	10	1	3
Singapore	High	3	5	3	2	3	6	4	3	6	3	2	5	6	4	6	7	4	9	4	4	2	5	6
South Korea	High	601	1,727	644	633	829	977	1,006	1,592	2,309	2,642	1,643	1,142	1,301	2,213	2,777	2,907	2,822	2,078	2,159	2,302	2,238	2,438	2,537
Taiwan	High	209	266	222	258	260	243	258	226	280	275	205	181	190	197	210	262	216	249	306	319	307	323	214
Middle East	na	20	16	14	19	17	26	21	11	9	9	20	10	10	21	14	29	36	30	34	31	34	30	24
Israel	High	18	15	10	14	13	24	20	8	7	5	14	10	8	11	11	16	25	17	21	23	22	22	16
Africa	na	55	50	38	48	43	52	39	34	31	34	48	42	52	17	34	18	22	6	7	7	7	7	6
South Africa	Upper middle	49	42	27	46	32	40	34	32	25	33	44	40	48	10	31	13	16	4	4	2	2	3	2
Australia and Oceania	na	70	71	86	126	136	155	217	160	141	121	129	116	137	103	122	113	106	119	117	97	95	96	98
Australia	High	64	65	82	119	128	150	211	152	133	116	123	108	128	90	111	102	88	103	104	85	85	84	91
New Zealand	High	6	6	4	7	7	5	6	8	8	5	6	9	10	13	11	10	18	16	13	12	9	10	7
Unclassified	na	9	11	4	4	1	1	3	13	18	1	1	1	0	1	1	1	1	1	2	1	0	1	1

na = not applicable, metric not calculated at this level.

EU = European Union; UK = United Kingdom.

<sup>a</sup> The United Kingdom was a part of the EU for data purposes from 1973 to 2019.<sup>b</sup> Beginning in 2020, the United Kingdom was no longer a member of the EU.**Note(s):**

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. (2013) is used to fill missing information on priority patents using information in successive filings within the families. Priority patents not indexed in PATSTAT are replaced by the next utility patent(s) in the families according to filing dates. Patent families 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. China includes Hong Kong. Data were extracted in June 2021. 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 year for which its output is accounted. As patent authorities become more involved with the European Patent Organisation, these gaps should disappear in the future, strengthening the robustness of statistics for these countries.

**Source(s):**

National Center for Science and Engineering Statistics; Science-Metrix; PATSTAT, accessed October 2021.