

Table SINV-73

USPTO utility patents granted in other special machines, 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	5,165	5,210	5,000	5,097	5,005	5,138	4,661	3,725	4,180	3,596	3,459	3,451	4,984	5,169	5,527	5,964	6,479	6,325	6,756	7,165	7,216	8,420	8,533
North America	na	3,313	3,443	3,230	3,282	3,131	3,249	2,899	2,416	2,627	2,267	2,227	2,197	3,096	3,178	3,344	3,625	3,917	3,751	4,084	4,352	4,313	4,977	4,957
Canada	High	163	182	192	217	201	153	149	139	157	160	162	138	191	170	184	178	216	181	197	224	237	247	252
Mexico	Upper middle	6	5	1	0	6	5	4	1	6	1	1	4	8	3	4	9	5	4	8	11	8	12	8
United States	High	3,144	3,256	3,037	3,065	2,924	3,092	2,746	2,276	2,464	2,106	2,065	2,056	2,897	3,006	3,156	3,439	3,696	3,566	3,879	4,117	4,068	4,718	4,697
Central America and Caribbean	na	2	1	1	2	0	1	1	2	2	3	1	0	2	3	2	0	5	3	3	2	3	4	5
Puerto Rico	High	2	0	0	1	0	1	1	2	2	3	1	0	2	2	1	0	2	2	3	0	1	2	2
South America	na	11	10	12	8	9	14	6	7	10	9	8	8	18	11	21	10	21	18	28	36	20	24	36
Argentina	Upper middle	2	3	6	2	6	5	2	3	1	1	3	4	3	4	5	4	2	4	9	11	2	4	1
Brazil	Upper middle	5	5	2	5	4	7	3	4	6	5	5	5	11	6	9	6	13	8	13	22	16	17	23
Europe	na	916	935	918	987	988	973	935	692	778	678	579	612	905	958	1,052	1,228	1,357	1,363	1,360	1,401	1,461	1,679	1,686
EU-27 + UK ^a	na	836	871	850	920	929	918	885	656	737	636	548	574	844	892	985	1,161	1,280	1,275	1,284	1,309	1,370	1,575	1,576
United Kingdom	High	84	106	92	99	93	88	70	65	63	57	52	52	62	86	93	93	119	117	110	117	141	145	136
EU-27 ^b	na	752	764	759	821	836	830	815	591	674	579	497	522	782	805	892	1,068	1,161	1,158	1,174	1,192	1,229	1,430	1,441
Austria	High	23	33	35	32	38	29	30	24	28	20	12	19	19	23	24	29	31	35	44	54	54	61	52
Belgium	High	28	28	23	34	34	20	30	25	31	25	19	31	37	41	35	46	51	56	56	71	104	86	63
Denmark	High	9	18	14	15	12	19	14	10	19	17	17	10	13	23	25	21	36	42	40	36	47	41	36
Finland	High	11	16	16	22	17	20	25	19	18	7	7	8	10	11	16	25	16	18	22	24	27	28	30
France	High	119	127	131	137	129	133	119	89	107	86	96	89	136	143	138	181	181	205	205	188	193	243	233
Germany	High	351	345	347	347	358	374	348	265	294	273	212	224	349	335	359	438	502	474	460	457	443	525	556
Hungary	High	0	0	0	0	2	2	1	1	2	0	0	0	0	2	2	3	3	1	5	4	4	1	7
Ireland	High	1	8	4	5	5	4	10	3	3	3	4	1	4	4	11	8	6	3	3	4	6	14	12
Italy	High	72	55	60	69	91	71	102	55	61	52	50	54	81	81	97	109	109	115	116	106	114	152	151
Netherlands	High	69	55	66	79	63	57	58	36	46	43	29	35	59	62	81	113	117	99	119	120	120	141	141
Spain	High	17	11	6	13	17	20	16	10	13	10	15	14	21	20	24	26	27	35	25	24	32	41	72
Sweden	High	48	58	50	60	61	71	46	44	37	35	27	23	42	47	68	55	61	61	57	82	58	72	55
Other Europe	na	79	64	68	67	59	55	50	36	41	41	31	38	61	67	66	67	77	88	76	92	91	104	109
Other Europe-2020 ^b	na	163	170	159	166	152	143	120	101	104	98	82	90	123	153	160	160	196	205	186	209	232	249	245
Belarus	Upper middle	3	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Moldova	Lower middle	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Norway	High	12	12	13	8	4	11	5	8	6	4	4	6	13	9	9	6	10	11	10	8	13	12	14
Russia	Upper middle	7	6	6	4	2	4	6	2	2	2	3	3	6	9	4	5	5	5	8	8	7	8	11
Switzerland	High	54	42	45	51	47	36	36	25	29	32	22	24	37	45	52	50	50	64	50	61	60	63	71

Table SINV-73

USPTO utility patents granted in other special machines, 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
Ukraine	Lower middle	1	0	1	1	3	0	0	0	1	1	1	1	1	2	0	2	1	1	0	6	2	3	4
Asia	na	847	738	748	727	792	800	741	539	687	564	571	560	862	909	978	982	1,025	1,069	1,150	1,228	1,268	1,569	1,650
China	Upper middle	9	11	10	12	13	14	10	14	16	16	19	16	37	44	43	65	69	94	102	125	158	217	252
India	Lower middle	1	1	2	2	2	2	5	6	5	3	2	3	4	6	7	16	17	15	17	19	25	29	34
Japan	High	731	617	630	598	608	637	576	398	510	427	428	396	628	628	681	641	662	677	744	741	769	919	961
Malaysia	Upper middle	2	2	2	1	2	1	4	0	3	2	3	1	4	5	7	5	8	6	6	10	9	11	14
Singapore	High	3	2	2	4	7	9	12	9	4	2	3	6	6	10	7	10	13	13	15	10	11	12	15
South Korea	High	27	28	25	37	46	37	34	38	40	41	39	48	64	82	90	109	126	133	131	171	162	199	203
Taiwan	High	74	76	77	72	114	99	98	73	106	73	76	87	114	132	138	132	126	124	131	145	129	171	155
Middle East	na	26	20	26	29	32	39	29	30	27	24	27	27	38	45	63	61	79	63	63	70	81	87	101
Israel	High	26	19	25	27	32	37	29	27	27	24	27	24	38	39	54	53	65	51	47	53	59	66	86
Africa	na	5	5	7	7	8	9	4	4	7	2	9	8	9	6	7	6	7	10	10	11	6	11	10
South Africa	Upper middle	5	5	6	7	7	8	3	4	7	2	9	8	8	6	7	6	6	9	9	10	5	9	8
Australia and Oceania	na	44	57	57	54	44	53	46	36	41	49	36	39	53	59	59	50	69	48	56	65	62	67	88
Australia	High	38	47	46	45	36	40	37	30	34	41	29	34	48	50	44	37	51	37	40	51	43	46	66
New Zealand	High	6	9	11	10	8	12	9	6	7	8	6	4	5	9	15	12	18	11	16	15	19	21	21
Unclassified	na	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	1	1	1

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

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

^a The United Kingdom was a part of the EU for data purposes from 1973 to 2019.^b Beginning in 2020, the United Kingdom was no longer a member of the EU.**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. China includes Hong Kong.

Source(s):

National Center for Science and Engineering Statistics; Science-Metrix; PatentsView, USPTO, accessed June 2021.

Science and Engineering Indicators