

Table SINV-72

USPTO utility patents granted in textile and paper 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	3,765	3,762	4,135	4,374	4,284	4,009	3,844	3,075	3,229	2,893	2,994	2,881	3,817	3,889	3,897	3,958	4,330	3,913	3,473	3,153	3,104	3,425	3,382
North America	na	1,595	1,515	1,608	1,689	1,634	1,534	1,470	1,108	1,089	870	783	771	1,051	1,020	1,136	1,229	1,364	1,058	1,001	948	927	982	940
Canada	High	58	44	53	54	54	42	32	30	42	27	32	28	44	30	44	47	42	44	39	34	26	28	34
Mexico	Upper middle	4	2	2	2	3	1	4	3	1	1	3	1	1	2	3	3	1	1	1	3	1	1	2
United States	High	1,533	1,470	1,552	1,633	1,578	1,491	1,435	1,076	1,046	841	748	743	1,005	989	1,088	1,180	1,321	1,012	961	911	900	954	904
Central America and Caribbean	na	1	1	0	0	0	2	2	5	5	2	1	0	0	2	0	0	0	0	2	2	2	3	1
Puerto Rico	High	0	1	0	0	0	2	2	5	5	2	1	0	0	1	0	0	0	0	2	2	2	3	1
South America	na	4	2	1	5	5	3	8	3	5	6	8	6	9	15	4	10	7	5	7	6	6	5	9
Argentina	Upper middle	2	0	0	1	1	1	2	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0
Brazil	Upper middle	2	2	0	3	4	2	5	3	5	4	8	6	9	15	3	7	5	3	6	5	4	4	8
Europe	na	994	967	1,091	1,083	997	917	848	661	610	476	495	446	584	572	599	600	604	576	507	563	543	654	649
EU-27 + UK ^a	na	922	891	1,006	1,004	933	852	802	619	561	439	469	416	548	543	566	564	559	539	476	519	503	602	599
United Kingdom	High	89	92	75	101	93	79	59	54	47	33	29	28	46	40	53	60	62	59	43	50	43	54	58
EU-27 ^b	na	833	799	931	903	840	773	743	564	513	406	440	389	503	503	513	504	496	480	433	469	461	548	542
Austria	High	31	28	26	28	22	19	22	11	16	9	13	9	13	7	17	19	13	16	18	11	16	20	15
Belgium	High	36	28	67	53	54	34	46	31	40	24	26	23	22	26	28	20	23	27	18	23	20	29	30
Denmark	High	7	18	11	13	9	11	6	8	6	6	3	4	7	5	2	4	8	5	8	9	8	6	9
Finland	High	61	70	58	75	91	65	80	49	44	32	37	28	32	40	37	31	31	33	26	29	24	31	37
France	High	82	68	68	64	74	70	52	38	50	36	44	30	48	45	50	50	54	55	48	64	53	62	60
Germany	High	477	439	461	472	405	408	381	297	240	200	202	196	256	234	239	209	205	191	161	152	151	196	185
Hungary	High	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0
Ireland	High	0	2	1	0	0	1	1	0	2	4	8	3	3	2	4	26	7	5	4	13	8	6	5
Italy	High	58	56	86	59	52	54	49	42	47	35	34	36	40	48	39	50	37	42	45	51	37	54	74
Netherlands	High	22	18	31	28	31	19	27	20	22	13	27	26	38	30	24	34	30	40	38	40	43	49	39
Spain	High	7	15	26	29	31	45	29	31	15	12	14	6	11	20	23	23	36	31	35	42	54	59	46
Sweden	High	46	58	88	78	68	44	47	35	30	34	30	25	28	44	43	32	48	30	22	26	32	17	27
Other Europe	na	72	76	85	78	64	65	47	42	50	36	26	30	36	29	33	37	45	37	31	44	40	53	50
Other Europe-2020 ^b	na	161	168	160	180	157	144	105	96	97	70	55	58	82	68	86	96	107	96	74	94	82	106	108
Belarus	Upper middle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Moldova	Lower middle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norway	High	3	2	1	1	1	0	0	0	1	2	0	1	1	2	2	2	1	2	1	0	0	1	2
Russia	Upper middle	2	2	1	6	2	4	2	1	1	1	1	1	1	1	1	0	1	1	0	0	0	2	2
Switzerland	High	66	71	83	70	60	58	42	40	48	33	24	28	34	26	28	32	39	33	26	41	33	35	34

Table SINV-72

USPTO utility patents granted in textile and paper 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Asia	na	1,126	1,243	1,402	1,506	1,541	1,454	1,409	1,159	1,247	1,244	1,338	1,384	1,714	1,834	2,006	2,010	2,280	2,202	1,886	1,575	1,557	1,699	1,696
China	Upper middle	2	2	5	3	5	3	8	8	9	13	10	16	17	24	26	31	42	40	50	67	60	66	87
India	Lower middle	0	0	1	2	0	3	2	0	2	1	2	2	3	5	4	4	4	5	6	9	10	13	8
Japan	High	1,047	1,159	1,297	1,389	1,393	1,328	1,250	1,030	1,096	1,096	1,181	1,210	1,522	1,660	1,816	1,791	2,083	2,029	1,725	1,380	1,383	1,498	1,468
Malaysia	Upper middle	1	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	0	2	2	0
Singapore	High	2	3	3	7	14	14	12	7	6	10	6	2	6	5	9	11	15	9	11	21	21	26	22
South Korea	High	32	42	53	45	62	47	56	55	75	76	91	96	109	82	95	95	69	65	55	46	44	45	58
Taiwan	High	40	37	41	59	66	57	79	57	58	46	46	58	54	54	53	76	63	50	34	50	36	45	48
Middle East	na	12	14	14	17	25	19	18	9	16	10	12	14	18	17	22	31	38	42	50	38	36	47	50
Israel	High	11	13	13	17	24	19	17	9	16	10	12	14	18	17	22	30	36	41	49	38	30	45	48
Africa	na	1	0	1	1	2	0	2	0	0	1	0	1	1	0	1	2	3	3	1	0	0	1	1
South Africa	Upper middle	1	0	1	1	2	0	2	0	0	1	0	0	0	0	1	2	3	3	1	0	0	1	1
Australia and Oceania	na	30	19	17	73	80	79	87	130	257	285	358	259	439	429	129	75	35	26	18	19	32	34	35
Australia	High	26	18	15	71	77	78	86	128	257	285	357	259	436	427	129	74	33	25	17	16	31	32	32
New Zealand	High	3	2	2	2	4	1	1	2	0	0	0	0	3	2	0	1	3	0	1	1	0	0	1
Unclassified	na	3	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0

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.