

Table SINV-79

USPTO utility patents granted in civil engineering, 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	4,030	4,216	4,472	4,495	4,453	4,246	3,945	3,491	3,942	3,321	3,199	3,457	4,851	4,542	5,157	5,901	6,476	6,602	6,714	7,023	7,054	8,281	7,943
North America	na	2,918	3,064	3,228	3,215	3,073	2,912	2,809	2,467	2,790	2,315	2,226	2,432	3,421	3,126	3,512	3,964	4,319	4,419	4,435	4,637	4,723	5,334	5,104
Canada	High	225	231	248	288	233	204	206	186	188	169	150	190	250	256	271	289	305	348	354	399	408	481	445
Mexico	Upper middle	4	4	3	5	5	3	2	1	1	4	2	4	4	5	8	11	10	10	17	13	21	28	20
United States	High	2,690	2,829	2,978	2,922	2,835	2,705	2,601	2,280	2,601	2,142	2,075	2,239	3,168	2,864	3,233	3,664	4,004	4,061	4,064	4,225	4,294	4,826	4,639
Central America and Caribbean	na	1	5	4	5	2	4	2	5	0	5	2	3	4	2	5	4	6	4	5	3	2	2	4
Puerto Rico	High	0	5	4	2	2	4	2	0	0	4	0	2	3	0	2	1	2	2	3	2	1	1	3
South America	na	4	15	15	12	10	13	10	4	9	10	16	11	14	17	18	25	28	34	24	20	25	38	37
Argentina	Upper middle	1	3	3	2	3	1	1	1	2	2	5	1	5	4	6	2	9	4	8	4	4	5	5
Brazil	Upper middle	2	7	9	4	4	4	4	1	6	6	6	4	6	6	5	15	12	16	9	11	14	20	24
Europe	na	619	649	747	792	869	801	632	558	670	538	504	579	850	845	959	1,155	1,243	1,224	1,270	1,271	1,254	1,505	1,422
EU-27 + UK ^a	na	562	598	672	710	803	731	584	522	614	489	453	525	758	755	856	1,027	1,102	1,072	1,105	1,103	1,087	1,343	1,220
United Kingdom	High	121	130	170	147	193	172	157	132	189	119	118	106	175	171	201	205	257	221	244	255	247	283	239
EU-27 ^b	na	441	469	503	562	611	559	427	389	425	370	336	419	583	584	655	821	845	851	862	849	840	1,059	981
Austria	High	20	29	21	32	30	37	27	22	27	19	13	18	20	38	31	41	35	26	24	30	34	55	44
Belgium	High	15	9	9	24	13	12	12	14	10	11	9	15	32	13	30	22	32	36	37	32	44	43	56
Denmark	High	13	11	8	21	16	19	9	8	9	6	13	11	12	20	25	25	30	37	55	34	28	55	42
Finland	High	19	17	10	16	16	15	11	11	13	11	5	11	19	9	14	24	19	21	23	30	25	24	29
France	High	59	74	78	91	79	74	67	61	75	51	50	74	96	91	101	135	151	139	119	126	113	153	133
Germany	High	197	213	232	235	293	248	182	160	173	153	136	173	224	231	265	336	352	363	323	353	324	400	361
Hungary	High	1	0	0	1	0	2	0	1	0	1	0	0	2	1	1	1	2	1	2	3	1	1	4
Ireland	High	1	3	4	3	4	3	4	1	3	1	2	3	5	3	5	4	7	11	4	11	10	13	10
Italy	High	40	38	42	30	67	59	30	29	35	37	29	45	63	63	56	73	70	80	88	73	82	108	111
Netherlands	High	21	21	38	40	39	34	31	31	45	41	30	27	33	26	52	43	45	40	56	57	69	77	73
Spain	High	11	7	11	11	11	14	10	21	10	11	6	11	20	22	19	26	23	27	28	22	31	30	39
Sweden	High	44	43	41	53	40	41	43	26	22	27	30	23	52	58	48	77	60	52	77	58	59	69	57
Other Europe	na	57	51	75	82	66	70	48	37	56	50	50	54	92	90	103	129	141	152	164	168	166	163	202
Other Europe-2020 ^b	na	178	181	244	230	258	242	205	169	246	169	168	160	267	261	305	334	398	373	408	422	413	446	441
Belarus	Upper middle	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	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	22	18	33	41	33	34	23	23	34	29	32	34	51	50	60	69	79	99	109	112	103	109	138
Russia	Upper middle	3	3	5	4	2	3	6	2	7	6	4	6	12	7	8	12	13	14	20	15	19	14	15
Switzerland	High	31	29	34	36	26	33	17	10	13	12	13	12	27	31	31	41	39	32	29	32	33	25	36

Table SINV-79

USPTO utility patents granted in civil engineering, 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	1	1	0	3	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	2	1	3
Asia	na	386	405	386	373	422	423	401	386	386	391	380	367	456	433	508	586	663	710	767	872	804	1,057	992
China	Upper middle	4	5	8	13	10	12	16	14	25	33	38	30	56	61	85	100	120	120	150	195	207	287	337
India	Lower middle	1	0	1	0	0	0	2	2	2	2	1	2	4	7	9	11	17	19	19	40	36	47	39
Japan	High	232	233	234	211	205	183	163	170	180	160	149	166	203	199	204	247	276	315	314	338	294	400	355
Malaysia	Upper middle	3	0	1	1	3	0	2	1	1	2	3	2	4	3	2	8	4	8	7	7	5	4	4
Singapore	High	2	1	4	3	4	3	9	3	5	2	6	3	7	6	5	8	18	19	19	23	20	41	22
South Korea	High	27	33	34	32	40	57	40	42	38	51	44	36	62	43	64	69	90	99	124	139	120	137	123
Taiwan	High	113	129	102	112	159	166	169	152	133	139	138	123	119	111	130	138	134	125	128	125	120	134	105
Middle East	na	12	8	17	22	18	17	18	16	16	14	21	16	28	26	52	48	72	68	85	82	113	180	223
Israel	High	11	6	14	21	17	15	13	11	12	9	10	8	18	16	28	19	28	24	24	25	30	38	33
Africa	na	19	14	10	11	8	15	9	9	11	6	9	6	5	17	12	12	21	10	11	14	12	18	16
South Africa	Upper middle	19	14	10	10	8	14	7	9	9	5	8	6	5	16	10	11	16	9	9	13	11	15	14
Australia and Oceania	na	71	55	64	66	52	60	65	47	58	43	40	43	72	75	91	105	124	131	117	123	121	145	143
Australia	High	63	46	61	55	46	53	59	40	49	37	36	39	64	63	81	87	105	116	103	108	102	113	126
New Zealand	High	8	9	4	11	6	8	5	7	9	5	4	4	8	12	10	18	19	15	15	15	18	32	17
Unclassified	na	0	1	0	1	0	0	0	0	1	0	1	1	2	1	0	0	1	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.