

Table SINV-46

USPTO utility patents granted in audio-visual technology, 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	8,048	7,780	7,941	8,335	8,517	9,080	9,533	8,137	10,790	9,676	9,896	10,520	12,647	13,179	15,816	14,754	15,304	15,029	15,203	15,642	14,896	16,493	16,282
North America	na	3,385	3,327	3,542	3,620	3,542	3,777	3,779	3,244	4,049	3,468	3,291	3,460	4,018	4,095	4,898	4,848	5,773	5,843	5,876	5,923	5,457	5,931	5,683
Canada	High	82	82	93	83	89	96	96	84	121	100	122	108	138	158	193	211	254	286	267	234	218	259	210
Mexico	Upper middle	0	1	1	1	1	0	1	4	4	2	2	2	2	2	6	3	3	3	10	7	11	6	5
United States	High	3,304	3,243	3,448	3,536	3,452	3,680	3,682	3,157	3,924	3,366	3,167	3,350	3,878	3,934	4,699	4,635	5,516	5,553	5,599	5,682	5,228	5,666	5,468
Central America and Caribbean	na	0	0	0	1	1	0	0	1	0	2	0	1	1	1	1	1	0	1	1	2	1	1	2
Puerto Rico	High	0	0	0	0	1	0	0	1	0	2	0	0	1	0	0	0	0	0	1	1	0	0	2
South America	na	1	3	2	6	2	2	3	3	4	2	2	3	0	3	4	4	5	4	6	7	7	13	9
Argentina	Upper middle	0	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3	1
Brazil	Upper middle	1	0	0	2	2	1	2	2	3	2	1	2	0	3	4	3	3	3	4	6	6	6	7
Europe	na	642	638	686	750	726	744	756	653	818	724	684	704	913	975	1,300	1,264	1,257	1,305	1,509	1,614	1,646	1,800	1,769
EU-27 + UK ^a	na	615	605	638	714	693	690	701	610	764	664	623	634	826	878	1,193	1,162	1,151	1,165	1,346	1,470	1,515	1,632	1,609
United Kingdom	High	131	125	125	138	128	120	141	123	128	119	112	118	133	138	189	191	196	194	195	192	196	234	236
EU-27 ^b	na	484	480	513	576	565	569	560	487	636	545	510	516	693	740	1,004	971	954	971	1,151	1,278	1,319	1,398	1,373
Austria	High	11	9	17	15	24	29	12	9	15	14	8	9	17	21	26	30	24	35	40	53	58	54	49
Belgium	High	16	15	12	16	20	14	25	14	23	17	14	13	17	20	27	29	34	40	45	40	44	47	41
Denmark	High	6	11	4	6	7	12	24	13	26	19	25	20	26	37	72	59	73	66	95	87	101	115	97
Finland	High	11	10	8	20	13	20	27	23	25	30	27	30	46	34	51	57	57	77	88	97	104	119	101
France	High	86	94	80	91	99	85	92	92	91	88	82	85	115	118	161	178	170	152	180	215	196	208	219
Germany	High	189	187	227	234	219	216	196	183	230	200	194	188	253	266	404	342	315	311	377	410	454	491	512
Hungary	High	0	0	0	0	1	1	1	0	0	0	2	2	2	4	1	2	1	3	3	4	4	3	4
Ireland	High	5	3	6	7	7	7	5	5	8	8	8	7	9	10	14	21	18	17	21	23	24	23	29
Italy	High	21	17	27	28	29	31	19	25	31	21	19	15	21	26	27	26	35	41	43	49	45	49	48
Netherlands	High	121	106	100	107	107	124	129	85	147	120	103	107	132	139	127	139	114	84	111	117	96	98	90
Spain	High	1	2	8	8	3	5	4	6	4	2	1	4	6	7	6	9	7	11	15	11	16	18	21
Sweden	High	15	22	21	35	32	25	25	27	29	21	21	30	43	50	73	65	84	110	107	142	148	134	127
Other Europe	na	28	33	48	37	32	54	54	42	54	60	61	70	87	96	106	102	106	140	163	144	131	168	160
Other Europe-2020 ^b	na	159	158	173	175	160	174	196	165	182	179	174	188	220	235	296	293	303	334	358	336	327	402	396
Belarus	Upper middle	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
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	7	13	14	8	3	6	9	9	9	13	9	12	23	7	29	20	25	30	31	21	23	24	21
Russia	Upper middle	3	4	4	4	5	9	4	4	5	5	6	4	5	10	9	13	11	10	21	19	19	22	27
Switzerland	High	16	16	28	23	24	36	40	29	38	39	45	51	57	75	63	66	64	91	97	91	76	102	95

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Ukraine	Lower middle	2	0	0	0	0	2	0	0	1	0	1	3	0	1	0	0	0	2	3	3	3	7	5
Asia	na	3,979	3,773	3,675	3,878	4,174	4,495	4,910	4,176	5,817	5,386	5,823	6,247	7,583	7,957	9,461	8,465	8,103	7,704	7,635	7,885	7,579	8,506	8,589
China	Upper middle	13	10	22	20	31	41	48	54	79	86	126	167	199	235	404	487	498	572	845	1,139	1,309	1,762	1,854
India	Lower middle	0	0	1	0	3	4	7	6	11	9	14	19	28	34	67	68	96	88	101	111	120	149	157
Japan	High	3,280	3,124	3,047	3,188	3,394	3,680	3,933	3,283	4,401	3,876	3,957	4,221	4,981	5,215	5,847	5,108	4,794	4,211	3,775	3,667	3,417	3,680	3,576
Malaysia	Upper middle	4	4	4	4	2	3	2	3	9	8	14	8	15	8	7	21	22	16	17	12	18	21	18
Singapore	High	10	14	20	26	41	65	92	47	61	38	57	47	75	56	103	76	87	104	98	86	84	73	62
South Korea	High	524	484	401	400	401	382	436	415	711	781	1,033	1,124	1,370	1,388	1,671	1,578	1,651	1,753	1,862	2,043	1,806	1,940	1,934
Taiwan	High	145	138	179	237	297	318	390	367	540	585	618	655	909	1,005	1,348	1,110	939	933	914	814	817	854	964
Middle East	na	27	24	25	45	38	30	42	25	44	34	41	44	72	82	109	115	112	121	123	148	131	147	156
Israel	High	26	23	24	45	37	30	42	25	44	34	41	43	72	78	106	110	107	117	118	141	125	138	149
Africa	na	2	2	1	1	1	2	3	2	2	1	4	3	2	1	5	4	3	4	3	4	5	3	2
South Africa	Upper middle	2	1	1	1	1	2	3	1	2	1	4	3	1	1	0	3	0	2	2	3	3	3	1
Australia and Oceania	na	12	13	10	34	33	31	39	32	57	58	51	59	58	64	40	52	50	46	47	59	69	79	70
Australia	High	10	11	9	34	27	29	37	30	54	57	48	54	56	63	35	44	48	37	40	51	62	70	60
New Zealand	High	2	2	2	0	6	2	2	2	3	1	2	5	2	1	5	8	2	9	7	7	6	9	10
Unclassified	na	1	0	0	0	1	0	0	0	0	1	0	1	0	1	1	1	1	1	2	1	1	13	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-Matrix; PatentsView, USPTO, accessed June 2021.