

Table SINV-58

USPTO utility patents granted in organic fine chemistry, 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	5,058	5,094	4,767	4,958	5,362	4,454	3,695	3,129	3,862	3,632	3,473	3,616	4,423	4,297	4,953	5,612	5,869	5,967	5,295	5,292	4,947	4,961	4,938
North America	na	2,494	2,584	2,337	2,343	2,561	2,173	1,767	1,544	1,902	1,692	1,637	1,699	2,069	1,954	2,294	2,610	2,760	2,799	2,553	2,599	2,366	2,357	2,373
Canada	High	64	81	66	62	75	64	55	40	64	55	65	77	83	80	79	86	93	89	82	68	66	69	84
Mexico	Upper middle	3	2	1	1	4	2	1	0	0	4	1	1	1	2	1	3	5	7	5	7	6	5	3
United States	High	2,427	2,501	2,270	2,281	2,483	2,107	1,711	1,504	1,838	1,633	1,571	1,621	1,985	1,872	2,214	2,521	2,663	2,703	2,466	2,524	2,294	2,283	2,286
Central America and Caribbean	na	0	3	2	3	0	2	0	2	3	0	2	1	1	1	2	1	3	2	2	2	3	3	3
Puerto Rico	High	0	3	1	0	0	1	0	0	2	0	0	1	1	1	1	0	1	1	1	1	1	3	2
South America	na	6	5	8	3	11	5	5	1	9	3	5	7	7	10	10	17	19	19	13	11	12	14	17
Argentina	Upper middle	1	1	3	0	3	1	0	0	2	1	2	1	1	1	1	3	2	2	1	1	0	1	2
Brazil	Upper middle	2	1	4	2	5	3	4	1	4	1	2	5	6	8	6	13	14	15	11	8	10	10	13
Europe	na	1,674	1,637	1,597	1,679	1,761	1,444	1,207	977	1,213	1,207	1,156	1,118	1,397	1,306	1,457	1,704	1,718	1,665	1,422	1,316	1,266	1,248	1,187
EU-27 + UK ^a	na	1,567	1,501	1,480	1,557	1,635	1,346	1,099	905	1,113	1,130	1,059	1,015	1,270	1,177	1,320	1,532	1,579	1,517	1,263	1,159	1,136	1,133	1,074
United Kingdom	High	258	252	265	254	225	206	165	143	173	193	170	156	201	186	216	207	210	211	194	193	201	201	177
EU-27 ^b	na	1,309	1,249	1,215	1,302	1,409	1,140	935	762	940	936	889	859	1,069	991	1,104	1,325	1,368	1,306	1,069	966	935	932	896
Austria	High	11	16	13	14	17	10	17	9	5	12	10	9	16	6	16	16	22	21	18	10	11	14	9
Belgium	High	34	22	28	37	39	25	28	29	34	29	28	39	38	51	45	67	70	73	57	51	45	40	40
Denmark	High	30	41	31	37	37	39	27	25	23	19	17	21	35	33	30	33	24	30	26	22	27	19	24
Finland	High	7	11	8	9	18	9	12	10	7	8	6	9	10	8	8	10	11	12	8	6	12	10	11
France	High	343	351	330	364	393	305	203	180	210	243	220	184	242	262	242	311	296	297	250	223	221	214	220
Germany	High	663	594	608	640	681	548	482	353	462	437	394	392	475	380	507	608	653	574	443	406	387	401	367
Hungary	High	8	4	8	11	8	13	8	8	9	9	16	5	12	9	8	9	9	14	10	12	5	11	7
Ireland	High	2	2	1	3	4	5	3	2	1	2	1	3	5	4	4	7	6	4	7	8	5	3	9
Italy	High	114	97	94	83	92	72	64	64	68	62	78	66	94	81	90	101	111	106	97	88	77	70	65
Netherlands	High	45	49	46	51	47	43	45	38	40	47	49	48	48	51	40	54	66	76	54	46	62	62	63
Spain	High	23	22	15	11	26	27	15	17	29	26	28	32	37	35	51	45	40	38	37	37	32	33	33
Sweden	High	17	27	21	27	31	31	19	17	31	21	28	28	36	29	35	27	29	26	23	21	26	23	23
Other Europe	na	107	136	117	123	126	98	108	72	99	77	97	103	127	129	137	172	140	148	158	157	129	115	113
Other Europe-2020 ^b	na	365	388	382	377	351	304	272	215	273	271	267	258	328	315	352	379	350	359	353	350	330	317	291
Belarus	Upper middle	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	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	5	6	8	4	7	6	7	4	5	2	4	6	7	9	8	12	12	13	16	8	12	8	4
Russia	Upper middle	14	9	10	10	8	7	7	7	9	8	6	8	10	13	6	18	15	14	11	14	15	12	12
Switzerland	High	87	115	97	104	107	81	89	57	82	65	81	86	107	101	116	136	109	115	128	127	99	93	94

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Ukraine	Lower middle	1	0	0	1	1	1	2	1	1	0	2	1	0	1	4	2	2	2	1	2	1	0	0
Asia	na	849	836	782	882	969	767	665	566	672	673	614	722	874	960	1,125	1,183	1,275	1,382	1,220	1,264	1,190	1,233	1,252
China	Upper middle	10	9	9	10	11	12	20	15	16	21	24	37	58	58	93	132	189	214	233	256	260	304	342
India	Lower middle	23	36	43	46	78	85	73	65	84	76	84	81	100	105	114	153	143	207	178	200	141	151	138
Japan	High	758	722	649	739	777	579	485	419	490	476	412	487	579	639	726	676	681	689	563	538	511	472	448
Malaysia	Upper middle	0	0	0	0	0	2	1	0	3	1	0	3	0	2	4	3	3	2	1	0	1	2	2
Singapore	High	0	1	1	1	1	1	2	2	3	3	2	6	4	7	13	9	17	18	15	15	15	15	19
South Korea	High	37	44	58	56	73	67	55	45	48	70	64	72	89	102	118	135	161	167	172	185	196	221	238
Taiwan	High	20	22	19	28	27	21	26	19	27	24	23	35	42	47	53	72	78	77	56	63	60	61	59
Middle East	na	17	16	23	26	38	39	29	25	44	40	45	46	49	34	34	53	61	58	50	66	80	73	71
Israel	High	16	15	18	23	34	36	29	24	40	36	42	45	45	29	29	42	44	37	28	31	29	25	28
Africa	na	2	3	4	3	5	5	5	3	2	2	3	5	4	6	3	9	2	6	8	6	3	3	4
South Africa	Upper middle	2	3	3	3	5	5	5	3	1	2	2	4	3	5	2	7	1	4	6	5	2	1	3
Australia and Oceania	na	14	10	12	18	16	19	17	12	19	15	11	18	22	26	27	35	28	36	28	27	26	26	27
Australia	High	12	7	8	13	14	16	14	11	14	12	10	14	17	21	23	31	24	29	24	22	21	21	25
New Zealand	High	2	2	4	4	2	3	3	1	5	3	1	4	5	5	4	4	4	7	4	5	5	5	2
Unclassified	na	1	1	2	1	1	0	0	0	0	0	0	0	0	0	1	2	1	0	1	1	1	3	2

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.