

Table SINV-63

USPTO utility patents granted in basic materials 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	3,436	3,673	3,426	3,576	3,428	3,374	2,943	2,159	2,411	2,232	2,134	2,339	3,331	3,456	3,856	4,356	4,768	4,527	4,477	4,584	4,451	4,633	4,556
North America	na	1,870	2,027	1,872	1,841	1,746	1,706	1,460	1,087	1,232	1,102	1,057	1,185	1,695	1,773	1,985	2,221	2,454	2,188	2,129	2,167	2,081	2,128	2,076
Canada	High	67	78	71	71	70	61	56	38	43	39	42	73	80	97	98	119	140	123	106	112	91	93	78
Mexico	Upper middle	3	5	4	2	4	4	2	1	0	4	1	2	4	5	5	8	13	10	9	17	18	18	10
United States	High	1,800	1,944	1,797	1,768	1,672	1,641	1,401	1,047	1,189	1,059	1,014	1,109	1,611	1,671	1,883	2,095	2,301	2,055	2,014	2,037	1,972	2,016	1,987
Central America and Caribbean	na	0	2	1	2	1	3	1	0	2	1	0	1	0	2	2	2	1	4	2	2	3	3	3
Puerto Rico	High	0	2	1	0	0	0	0	0	0	1	0	1	0	1	1	0	1	2	2	1	0	1	1
South America	na	11	21	15	10	13	13	12	9	14	11	9	13	29	24	30	19	24	25	28	24	21	26	29
Argentina	Upper middle	0	1	0	1	0	2	1	2	1	0	0	0	1	1	2	1	1	2	1	3	1	2	1
Brazil	Upper middle	3	6	7	4	4	7	5	7	9	4	6	8	15	14	9	12	14	10	20	13	11	14	20
Europe	na	919	975	905	1,017	968	936	764	572	616	536	471	495	745	721	815	923	1,055	1,010	947	961	918	959	924
EU-27 + UK ^a	na	849	908	842	941	895	878	707	531	569	496	437	448	684	669	753	845	969	924	848	864	826	869	828
United Kingdom	High	184	167	147	177	139	151	142	104	106	90	83	78	142	128	125	132	149	151	125	126	135	145	132
EU-27 ^b	na	666	741	695	764	756	727	565	428	464	406	354	369	542	540	628	713	820	773	723	738	691	724	696
Austria	High	5	5	4	7	8	7	5	5	6	4	4	2	5	6	8	4	13	13	11	11	13	11	11
Belgium	High	80	88	71	66	85	72	45	39	37	28	20	33	38	35	43	53	63	41	39	41	42	41	49
Denmark	High	14	24	11	20	13	19	9	7	8	13	6	8	12	18	16	19	14	17	26	22	26	26	31
Finland	High	8	13	7	11	9	8	6	4	4	8	5	7	4	11	14	11	14	17	13	14	25	18	26
France	High	98	114	108	101	108	100	72	59	56	71	63	58	97	96	103	123	137	125	148	142	143	132	138
Germany	High	378	386	381	450	424	400	336	245	277	218	203	202	293	279	343	375	449	414	344	359	316	357	303
Hungary	High	1	1	1	3	1	2	1	2	1	0	1	0	1	1	2	3	2	1	3	1	0	0	2
Ireland	High	1	0	1	2	1	4	4	4	2	3	2	2	2	2	4	5	3	4	2	4	4	7	3
Italy	High	25	36	37	27	40	44	20	15	20	14	19	14	23	28	23	29	24	31	31	35	29	29	25
Netherlands	High	37	48	56	52	48	52	44	32	41	32	15	31	49	39	41	59	64	67	66	63	57	67	57
Spain	High	9	7	6	10	6	7	7	7	3	3	5	4	7	9	11	11	12	17	15	20	11	10	21
Sweden	High	9	16	9	14	10	12	12	6	8	10	8	6	7	12	13	12	14	13	16	15	11	13	17
Other Europe	na	69	67	63	76	73	59	57	41	46	40	34	48	62	52	62	78	86	86	99	98	92	90	96
Other Europe-2020 ^b	na	253	234	210	253	212	210	199	144	152	130	117	126	204	181	187	210	235	237	224	224	227	235	228
Belarus	Upper middle	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Moldova	Lower middle	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norway	High	3	4	5	6	4	3	7	2	3	3	5	3	7	3	7	10	10	9	10	11	13	14	12
Russia	Upper middle	6	5	6	5	7	6	6	4	6	8	4	6	11	5	5	10	11	10	10	10	9	11	11
Switzerland	High	59	56	52	63	61	49	41	33	36	28	24	37	43	41	48	56	62	64	73	71	63	60	68

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Ukraine	Lower middle	0	0	0	2	1	0	1	1	0	1	1	0	0	1	0	1	2	1	2	1	0	2	1
Asia	na	596	611	594	681	663	676	673	453	521	555	562	613	806	869	960	1,103	1,139	1,183	1,255	1,293	1,272	1,334	1,332
China	Upper middle	8	6	5	5	14	10	16	10	14	8	15	17	26	32	43	65	80	115	151	145	177	187	202
India	Lower middle	5	10	10	13	20	17	18	16	16	9	10	15	20	11	23	34	45	54	68	76	78	90	85
Japan	High	557	553	545	603	573	584	567	375	439	472	462	478	629	683	719	823	834	800	798	807	718	761	748
Malaysia	Upper middle	0	1	1	1	1	1	1	3	1	2	3	7	5	7	4	6	7	7	8	6	4	2	5
Singapore	High	1	2	2	2	3	3	2	1	2	4	2	3	2	3	5	6	5	14	7	14	13	12	13
South Korea	High	14	26	16	35	32	42	44	32	35	43	45	64	82	98	118	110	109	138	166	193	224	218	216
Taiwan	High	9	11	13	20	18	18	25	16	14	15	25	28	41	35	44	53	54	50	53	45	56	59	57
Middle East	na	11	7	6	9	10	9	9	9	8	9	9	12	20	23	28	45	44	62	79	93	108	142	153
Israel	High	9	7	5	8	9	5	8	8	6	6	6	5	11	16	15	25	18	21	25	29	22	29	23
Africa	na	4	9	4	4	6	8	4	7	1	6	7	5	7	9	12	12	14	9	5	9	8	9	6
South Africa	Upper middle	4	7	3	3	5	5	3	7	1	6	7	4	7	9	12	11	12	8	3	8	6	6	5
Australia and Oceania	na	22	20	27	13	19	21	21	22	17	13	20	16	29	34	23	30	36	46	32	34	39	31	32
Australia	High	19	17	24	12	17	19	19	22	17	11	17	14	27	31	20	23	31	40	23	29	32	27	23
New Zealand	High	3	3	3	1	3	2	2	0	0	1	2	2	3	4	4	7	5	5	9	5	7	4	8
Unclassified	na	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	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.