

APPENDIX TABLE 8-15

USPTO patents granted in organic chemistry, by region, country, or economy: 2000–16

(Number)

Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	5,415	5,721	6,213	5,246	4,335	3,758	4,666	4,500	4,355	4,694	5,749	5,632	6,482	7,116	7,089	6,828	6,000
North America	2,618	2,677	2,974	2,563	2,078	1,881	2,339	2,148	2,103	2,252	2,744	2,581	3,006	3,323	3,320	3,189	2,896
Canada	75	75	89	76	71	49	80	76	84	99	105	109	102	110	113	101	95
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	1	1	4	2	0	0	0	4	1	2	2	2	1	3	6	6	5
United States	1	0	0	1	0	0	2	1	1	1	1	1	2	0	0	1	0
All others	2,542	2,600	2,881	2,484	2,006	1,831	2,257	2,067	2,016	2,150	2,636	2,468	2,901	3,209	3,201	3,080	2,795
Central and South America	9	6	11	8	5	4	11	3	9	10	8	12	16	20	25	22	18
Argentina	3	0	3	1	0	0	3	1	2	2	1	2	2	3	3	2	2
Brazil	4	2	6	4	4	2	4	1	4	7	7	9	9	14	16	17	12
All others	2	4	2	3	1	2	4	1	2	2	0	2	4	3	7	4	4
Europe	1,865	1,985	2,091	1,733	1,429	1,182	1,477	1,508	1,464	1,487	1,867	1,785	2,000	2,224	2,136	1,939	1,612
EU	1,731	1,842	1,945	1,618	1,304	1,100	1,358	1,413	1,341	1,354	1,691	1,601	1,817	1,997	1,955	1,768	1,428
Austria	15	17	19	12	20	10	7	15	13	12	23	10	22	24	29	26	20
Belgium	34	44	48	32	34	35	43	37	37	54	49	69	62	89	92	87	69
Denmark	40	50	47	51	37	32	31	30	25	33	57	55	52	50	31	36	32



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	9	12	20	10	13	11	7	8	7	9	12	10	9	11	13	13	8
France	387	430	469	367	247	223	259	302	279	254	310	344	332	412	362	342	283
Germany	682	710	772	623	543	406	535	507	467	483	595	491	649	746	779	647	487
Hungary	11	16	11	18	10	11	12	12	20	8	19	16	13	13	14	19	12
Ireland	1	5	5	5	3	2	2	2	1	3	5	4	4	8	6	4	6
Italy	112	102	113	85	77	79	80	85	105	88	134	115	132	142	141	131	108
Netherlands	51	59	51	47	51	43	45	54	56	55	57	61	47	58	70	79	56
Spain	18	19	33	36	19	23	35	36	40	47	55	53	78	63	56	48	50
Sweden	27	40	43	41	24	24	41	32	43	43	57	48	54	43	42	34	26
United Kingdom	332	323	294	273	211	192	235	266	235	229	290	275	327	287	283	258	224
All others	11	17	19	17	15	10	25	25	11	33	28	49	36	51	37	44	46
Other Europe	134	143	145	115	126	82	119	95	123	133	176	184	183	227	181	171	184
Former Soviet Union	0	3	2	1	2	1	1	0	2	1	0	1	4	2	3	2	2
Norway	8	5	8	6	8	4	5	2	4	7	7	10	10	14	13	14	17
Russia	12	10	9	7	7	7	9	8	6	9	11	15	7	21	17	16	13
Switzerland	111	121	122	98	105	68	99	83	106	114	153	152	159	186	145	135	149
All others	2	5	4	3	4	3	4	2	4	1	4	6	3	4	4	4	3
Asia	879	997	1,067	871	763	640	764	774	704	856	1,039	1,170	1,373	1,425	1,493	1,563	1,377
China	14	12	14	16	23	20	21	31	33	51	77	84	128	178	232	248	280



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
India	45	50	84	91	78	75	95	89	95	99	122	131	154	195	190	241	208
Japan	728	838	857	659	562	469	555	542	469	576	684	768	863	786	770	772	622
Malaysia	0	0	0	2	0	0	3	1	0	2	0	2	4	3	3	3	1
Singapore	1	1	1	1	3	2	3	3	2	6	4	8	16	11	20	20	15
South Korea	68	64	82	77	66	52	57	82	73	82	102	122	143	165	187	184	189
Taiwan	19	30	28	24	28	21	30	25	27	39	49	53	62	83	89	87	58
All others	3	3	2	1	3	1	2	1	4	1	1	1	4	3	2	7	3
Middle East	24	31	44	46	35	32	51	47	59	60	60	42	45	64	74	64	56
Israel	19	28	40	42	35	31	47	42	56	59	57	38	40	52	55	42	35
All others	5	3	4	3	1	1	4	5	3	1	3	5	5	12	19	23	22
Africa	4	3	5	5	5	3	2	2	4	6	4	8	3	11	3	7	9
South Africa	3	3	5	5	5	3	1	2	2	5	3	6	2	8	1	5	7
All others	1	0	0	0	0	0	1	1	2	1	1	2	0	2	1	2	2
Australia and Oceania	14	20	19	20	19	15	23	18	13	23	27	33	38	48	36	44	33
Australia	8	14	17	17	15	14	16	14	11	18	19	26	32	43	31	36	28
New Zealand	6	5	2	3	4	1	7	4	2	5	8	7	5	5	5	7	5
All others	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified	2	1	2	0	0	0	0	0	0	0	0	0	1	2	1	0	0



EU = European Union; USPTO = U.S. Patent and Trademark Office.

Note(s)

Patents are allocated according to patent inventorship information. Patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. The EU includes 28 member countries. China includes Hong Kong. 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.

Source(s)

Science-Metrix; PatentsView and USPTO patent data, accessed April 2017.

Science and Engineering Indicators 2018