



APPENDIX TABLE 8-24

USPTO patents granted in surface technology and coating, 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	2,502	2,651	2,676	2,617	2,470	1,913	1,760	1,656	1,576	1,564	2,222	2,299	2,596	2,753	2,913	3,019	3,153
North America	1,326	1,421	1,394	1,410	1,269	1,043	905	863	802	813	1,066	1,074	1,217	1,266	1,258	1,319	1,359
Canada	35	41	42	39	34	30	29	28	21	18	21	35	52	39	40	40	52
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	0	1	0	0	3	0	1	1	1	1	0	0	1	2	1	2	3
United States	0	1	0	2	0	0	1	0	0	0	0	0	0	2	0	0	0
All others	1,291	1,378	1,352	1,369	1,232	1,013	875	833	781	795	1,045	1,039	1,164	1,223	1,216	1,277	1,304
Central and South America	3	3	7	7	8	1	2	4	3	2	3	4	5	11	4	8	5
Argentina	0	0	0	0	2	0	0	0	0	0	0	1	1	1	0	0	0
Brazil	0	1	0	1	0	0	1	2	2	0	1	1	1	4	2	5	3
All others	3	2	7	6	5	1	1	2	1	2	2	3	3	6	2	3	2
Europe	391	480	462	444	402	303	309	253	252	219	394	416	446	470	499	574	588
EU	359	436	424	406	361	279	278	230	226	205	364	381	409	427	463	529	531
Austria	11	14	14	11	8	6	6	6	6	5	10	12	12	12	14	12	20
Belgium	11	17	17	13	8	12	8	10	8	11	17	20	17	16	20	24	25
Denmark	4	1	5	4	2	2	1	1	3	3	3	5	4	4	8	4	7



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	5	13	11	15	19	11	17	9	10	15	12	10	7	15	11	15	19
France	52	60	51	57	50	30	35	33	26	36	52	43	57	63	73	78	79
Germany	169	210	201	204	182	140	130	97	96	81	159	159	165	184	212	234	224
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Ireland	0	0	2	2	2	0	2	0	4	2	2	3	5	2	5	4	4
Italy	28	27	22	24	20	13	16	16	10	13	20	19	26	20	17	26	26
Netherlands	15	11	17	15	15	14	10	13	14	9	16	19	20	20	22	24	30
Spain	2	0	4	1	3	3	2	2	0	1	4	4	7	3	5	8	11
Sweden	23	31	27	21	24	21	25	15	21	11	22	36	37	28	23	22	21
United Kingdom	36	49	50	36	27	25	25	24	21	15	39	46	48	53	48	69	52
All others	2	4	4	5	2	3	3	3	7	3	7	4	5	7	4	8	12
Other Europe	32	44	38	38	41	23	31	23	27	13	30	35	37	43	37	45	57
Former Soviet Union	1	1	1	1	1	3	0	1	2	0	0	0	1	1	2	3	2
Norway	2	1	2	1	3	3	4	2	7	2	1	4	2	4	2	4	7
Russia	7	12	7	8	6	3	4	4	2	3	3	4	5	1	1	3	5
Switzerland	19	29	27	25	28	15	21	14	14	7	24	24	26	36	30	32	41
All others	2	1	1	3	3	0	2	2	1	1	2	2	2	2	2	2	2
Asia	766	726	791	738	767	554	532	518	506	515	738	781	906	983	1,122	1,092	1,166
China	2	4	4	3	4	6	6	6	4	7	25	20	34	50	62	60	91





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

**Note(s)**

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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)**

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

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