



APPENDIX TABLE 8-14

USPTO patents granted in basic material 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 | 3,421 | 3,573 | 3,426 | 3,371 | 2,940 | 2,167 | 2,411 | 2,231 | 2,140 | 2,341 | 3,341 | 3,476 | 3,886 | 4,390 | 4,797 | 4,536 | 4,477 |
| North America | 1,869 | 1,839 | 1,744 | 1,702 | 1,457 | 1,088 | 1,230 | 1,107 | 1,064 | 1,189 | 1,696 | 1,789 | 2,005 | 2,238 | 2,466 | 2,193 | 2,135 |
| Canada | 71 | 71 | 71 | 61 | 57 | 38 | 43 | 39 | 43 | 74 | 81 | 99 | 99 | 118 | 140 | 123 | 107 |
| Mexico | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Puerto Rico | 4 | 2 | 4 | 3 | 2 | 1 | 0 | 4 | 1 | 2 | 4 | 5 | 5 | 7 | 13 | 10 | 9 |
| United States | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 2 |
| All others | 1,794 | 1,766 | 1,669 | 1,638 | 1,397 | 1,049 | 1,187 | 1,064 | 1,020 | 1,112 | 1,611 | 1,684 | 1,901 | 2,113 | 2,312 | 2,058 | 2,017 |
| Central and South America | 16 | 11 | 15 | 16 | 13 | 9 | 16 | 11 | 9 | 13 | 28 | 25 | 32 | 21 | 24 | 27 | 28 |
| Argentina | 1 | 1 | 0 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Brazil | 7 | 4 | 4 | 7 | 5 | 7 | 10 | 4 | 6 | 8 | 15 | 14 | 9 | 12 | 14 | 10 | 20 |
| All others | 8 | 6 | 10 | 7 | 8 | 0 | 5 | 7 | 3 | 5 | 12 | 10 | 22 | 8 | 9 | 15 | 6 |
| Europe | 907 | 1,020 | 972 | 940 | 769 | 580 | 618 | 534 | 471 | 496 | 752 | 726 | 824 | 932 | 1,066 | 1,018 | 949 |
| EU | 843 | 944 | 898 | 882 | 711 | 539 | 571 | 494 | 436 | 447 | 690 | 673 | 760 | 852 | 978 | 930 | 849 |
| Austria | 4 | 7 | 8 | 6 | 5 | 5 | 6 | 4 | 2 | 2 | 5 | 6 | 9 | 4 | 13 | 13 | 11 |
| Belgium | 70 | 66 | 85 | 72 | 45 | 39 | 38 | 28 | 20 | 33 | 39 | 35 | 43 | 54 | 63 | 42 | 39 |
| Denmark | 11 | 21 | 14 | 18 | 9 | 7 | 8 | 13 | 6 | 8 | 12 | 19 | 16 | 19 | 14 | 17 | 25 |



| Region, country, or economy | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| Finland | 7 | 11 | 9 | 8 | 6 | 4 | 3 | 8 | 5 | 5 | 3 | 11 | 15 | 10 | 14 | 17 | 14 |
| France | 109 | 101 | 108 | 101 | 74 | 59 | 56 | 69 | 63 | 58 | 98 | 96 | 103 | 124 | 138 | 126 | 148 |
| Germany | 382 | 450 | 425 | 402 | 337 | 249 | 279 | 219 | 204 | 203 | 297 | 282 | 347 | 378 | 456 | 418 | 346 |
| Hungary | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 3 | 2 | 1 | 3 |
| Ireland | 1 | 2 | 1 | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 5 | 3 | 5 | 2 |
| Italy | 38 | 27 | 41 | 44 | 20 | 16 | 20 | 14 | 19 | 13 | 23 | 29 | 23 | 29 | 24 | 31 | 30 |
| Netherlands | 56 | 53 | 49 | 54 | 44 | 32 | 41 | 32 | 15 | 31 | 49 | 39 | 41 | 59 | 65 | 67 | 65 |
| Spain | 6 | 10 | 6 | 7 | 7 | 7 | 3 | 3 | 5 | 4 | 7 | 9 | 11 | 11 | 12 | 16 | 15 |
| Sweden | 9 | 14 | 10 | 12 | 12 | 6 | 8 | 10 | 7 | 6 | 7 | 12 | 13 | 12 | 14 | 13 | 16 |
| United Kingdom | 148 | 179 | 140 | 153 | 143 | 106 | 105 | 89 | 82 | 79 | 143 | 129 | 126 | 134 | 150 | 152 | 125 |
| All others | 2 | 1 | 4 | 1 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 7 | 10 | 11 | 13 | 11 |
| Other Europe | 63 | 76 | 74 | 59 | 58 | 41 | 47 | 40 | 35 | 48 | 62 | 53 | 64 | 80 | 87 | 87 | 100 |
| Former Soviet Union | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 3 |
| Norway | 5 | 6 | 4 | 3 | 7 | 3 | 3 | 3 | 5 | 3 | 7 | 3 | 7 | 10 | 10 | 10 | 10 |
| Russia | 6 | 5 | 7 | 6 | 6 | 4 | 6 | 8 | 4 | 5 | 11 | 5 | 5 | 10 | 11 | 10 | 10 |
| Switzerland | 52 | 63 | 62 | 50 | 42 | 33 | 36 | 28 | 24 | 37 | 43 | 42 | 50 | 58 | 64 | 64 | 75 |
| All others | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 1 | 1 | 1 | 3 |
| Asia | 592 | 677 | 659 | 672 | 667 | 451 | 521 | 551 | 561 | 611 | 808 | 868 | 961 | 1,109 | 1,147 | 1,179 | 1,248 |
| China | 6 | 5 | 14 | 9 | 16 | 10 | 14 | 8 | 15 | 17 | 27 | 32 | 43 | 65 | 80 | 115 | 149 |



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.

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