

## U.S. patents granted, by country/economy of origin of first-named inventor and type of ownership: Pre-1990 and 1990–2003

| Variable                          | Total     | Pre-1990  | 1990   | 1991   | 1992   | 1993   | 1994    | 1995    | 1996    | 1997    | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    |
|-----------------------------------|-----------|-----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| All residence countries/economies | 3,583,813 | 1,815,531 | 90,365 | 96,511 | 97,444 | 98,342 | 101,676 | 101,419 | 109,645 | 111,984 | 147,518 | 153,486 | 157,494 | 166,037 | 167,333 | 169,028 |
| U.S. origin.....                  | 2,132,534 | 1,182,124 | 47,391 | 51,177 | 52,253 | 53,231 | 56,066  | 55,739  | 61,104  | 61,708  | 80,289  | 83,906  | 85,068  | 87,605  | 86,972  | 87,901  |
| Foreign origin .....              | 1,451,279 | 633,407   | 42,974 | 45,334 | 45,191 | 45,111 | 45,610  | 45,680  | 48,541  | 50,276  | 67,229  | 69,580  | 72,426  | 78,432  | 80,361  | 81,127  |
| Japan.....                        | 556,335   | 184,348   | 19,525 | 21,025 | 21,925 | 22,293 | 22,384  | 21,764  | 23,053  | 23,179  | 30,840  | 31,104  | 31,295  | 33,224  | 34,859  | 35,517  |
| Germany .....                     | 265,313   | 146,010   | 7,614  | 7,680  | 7,309  | 6,893  | 6,731   | 6,600   | 6,818   | 7,008   | 9,095   | 9,337   | 10,235  | 11,259  | 11,280  | 11,444  |
| United Kingdom.....               | 113,109   | 70,825    | 2,789  | 2,800  | 2,425  | 2,295  | 2,234   | 2,478   | 2,453   | 2,678   | 3,464   | 3,572   | 3,667   | 3,965   | 3,837   | 3,627   |
| France.....                       | 101,163   | 54,725    | 2,866  | 3,030  | 3,029  | 2,909  | 2,779   | 2,821   | 2,788   | 2,958   | 3,674   | 3,820   | 3,819   | 4,041   | 4,035   | 3,869   |
| Canada.....                       | 67,753    | 31,144    | 1,859  | 2,037  | 1,964  | 1,944  | 2,008   | 2,104   | 2,232   | 2,379   | 2,974   | 3,226   | 3,419   | 3,606   | 3,431   | 3,426   |
| Switzerland .....                 | 48,728    | 31,386    | 1,284  | 1,335  | 1,197  | 1,127  | 1,169   | 1,056   | 1,112   | 1,090   | 1,279   | 1,279   | 1,322   | 1,420   | 1,364   | 1,308   |
| Taiwan .....                      | 40,746    | 2,341     | 732    | 906    | 1,001  | 1,189  | 1,443   | 1,620   | 1,897   | 2,057   | 3,100   | 3,693   | 4,667   | 5,371   | 5,431   | 5,298   |
| Italy.....                        | 39,328    | 19,600    | 1,259  | 1,209  | 1,271  | 1,285  | 1,215   | 1,078   | 1,200   | 1,239   | 1,584   | 1,492   | 1,714   | 1,709   | 1,751   | 1,722   |
| Sweden.....                       | 34,800    | 19,681    | 768    | 716    | 626    | 636    | 706     | 806     | 854     | 867     | 1,225   | 1,401   | 1,577   | 1,741   | 1,675   | 1,521   |
| Netherlands.....                  | 31,978    | 17,353    | 960    | 992    | 855    | 800    | 852     | 799     | 797     | 808     | 1,226   | 1,247   | 1,241   | 1,332   | 1,391   | 1,325   |
| South Korea.....                  | 29,437    | 599       | 225    | 405    | 538    | 779    | 943     | 1,161   | 1,493   | 1,891   | 3,259   | 3,562   | 3,314   | 3,538   | 3,786   | 3,944   |
| Australia .....                   | 14,725    | 6,402     | 432    | 463    | 409    | 378    | 467     | 459     | 471     | 478     | 720     | 707     | 705     | 875     | 859     | 900     |
| Belgium.....                      | 13,728    | 6,567     | 313    | 324    | 325    | 350    | 352     | 397     | 488     | 515     | 693     | 648     | 694     | 718     | 722     | 622     |
| Austria .....                     | 12,476    | 6,595     | 393    | 359    | 371    | 312    | 289     | 337     | 362     | 376     | 387     | 479     | 505     | 589     | 530     | 592     |
| Israel.....                       | 11,364    | 2,877     | 299    | 304    | 335    | 314    | 350     | 384     | 484     | 534     | 754     | 743     | 783     | 970     | 1,040   | 1,193   |
| Finland.....                      | 10,008    | 2,885     | 304    | 331    | 361    | 293    | 312     | 358     | 444     | 452     | 595     | 649     | 618     | 732     | 809     | 865     |
| Denmark .....                     | 8,349     | 3,862     | 158    | 210    | 193    | 197    | 207     | 199     | 241     | 333     | 392     | 487     | 436     | 479     | 426     | 529     |
| Former Soviet Union.....          | 6,995     | 6,415     | 174    | 178    | 66     | 65     | 53      | 12      | 16      | 4       | 6       | 3       | 1       | NA      | 1       | 1       |
| Spain.....                        | 4,752     | 1,934     | 130    | 153    | 133    | 158    | 141     | 148     | 157     | 177     | 248     | 222     | 270     | 269     | 303     | 309     |
| Norway.....                       | 4,610     | 2,186     | 112    | 111    | 108    | 117    | 126     | 130     | 139     | 142     | 198     | 224     | 248     | 265     | 242     | 262     |
| South Africa.....                 | 3,507     | 1,981     | 114    | 105    | 97     | 93     | 101     | 123     | 111     | 101     | 115     | 110     | 111     | 120     | 113     | 112     |
| Hungary .....                     | 2,615     | 1,819     | 93     | 85     | 88     | 61     | 46      | 50      | 43      | 25      | 50      | 39      | 36      | 60      | 48      | 72      |
| Hong Kong.....                    | 2,254     | 480       | 52     | 50     | 60     | 60     | 57      | 86      | 88      | 81      | 160     | 155     | 179     | 237     | 233     | 276     |
| Mexico .....                      | 2,166     | 1,385     | 32     | 29     | 39     | 45     | 44      | 40      | 39      | 45      | 57      | 76      | 76      | 81      | 94      | 84      |
| Czech Republic.....               | 2,140     | 1,960     | 39     | 27     | 17     | 13     | 19      | 15      | 8       | 9       | 9       | 5       | 9       | 7       | 2       | 1       |
| Singapore.....                    | 2,098     | 100       | 12     | 15     | 32     | 38     | 51      | 53      | 88      | 94      | 120     | 144     | 218     | 296     | 410     | 427     |
| New Zealand .....                 | 1,977     | 850       | 51     | 41     | 44     | 39     | 37      | 44      | 52      | 85      | 114     | 114     | 107     | 124     | 140     | 135     |
| Ireland.....                      | 1,745     | 543       | 54     | 56     | 55     | 53     | 50      | 50      | 78      | 73      | 74      | 94      | 123     | 143     | 133     | 166     |
| China .....                       | 1,711     | 240       | 47     | 50     | 41     | 53     | 48      | 62      | 46      | 62      | 72      | 90      | 119     | 195     | 289     | 297     |
| India.....                        | 1,669     | 329       | 23     | 22     | 24     | 30     | 27      | 37      | 35      | 47      | 85      | 112     | 131     | 177     | 249     | 341     |
| Brazil.....                       | 1,599     | 552       | 41     | 62     | 40     | 57     | 60      | 63      | 63      | 62      | 74      | 91      | 98      | 110     | 96      | 130     |
| Russian Federation.....           | 1,555     | NA        | NA     | NA     | NA     | 3      | 38      | 98      | 116     | 111     | 189     | 181     | 183     | 234     | 200     | 202     |
| Argentina .....                   | 1,072     | 558       | 17     | 16     | 20     | 24     | 32      | 31      | 30      | 35      | 43      | 44      | 54      | 51      | 54      | 63      |
| Luxembourg.....                   | 794       | 423       | 17     | 27     | 26     | 28     | 22      | 24      | 18      | 22      | 20      | 22      | 40      | 33      | 37      | 35      |
| Poland.....                       | 743       | 572       | 17     | 8      | 5      | 8      | 8       | 8       | 15      | 11      | 15      | 19      | 13      | 16      | 11      | 17      |
| Venezuela.....                    | 632       | 264       | 20     | 25     | 22     | 31     | 23      | 29      | 25      | 25      | 27      | 39      | 27      | 26      | 30      | 19      |
| Other countries (132).....        | 7,305     | 3,616     | 149    | 148    | 140    | 141    | 186     | 156     | 187     | 223     | 292     | 350     | 372     | 419     | 450     | 476     |
| Ownership                         |           |           |        |        |        |        |         |         |         |         |         |         |         |         |         |         |
| United States                     |           |           |        |        |        |        |         |         |         |         |         |         |         |         |         |         |
| Corporations .....                | 1,675,007 | 900,473   | 36,094 | 39,132 | 40,308 | 41,825 | 44,036  | 44,035  | 48,741  | 50,221  | 66,052  | 69,391  | 70,884  | 74,325  | 74,161  | 75,329  |
| Government .....                  | 51,995    | 37,665    | 983    | 1,183  | 1,161  | 1,167  | 1,258   | 1,028   | 923     | 944     | 1,027   | 983     | 928     | 957     | 907     | 881     |
| Individuals.....                  | 484,304   | 289,097   | 12,542 | 13,207 | 12,751 | 12,281 | 12,805  | 12,885  | 13,729  | 12,914  | 16,407  | 16,698  | 16,129  | 15,205  | 14,116  | 13,538  |

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|--------------------|-----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Foreign .....      |           |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Corporations ..... | 1,190,355 | 483,992  | 35,548 | 37,593 | 38,239 | 38,401 | 38,788 | 38,688 | 41,477 | 42,907 | 57,667 | 60,168 | 63,182 | 68,943 | 71,663 | 73,099 |
| Government .....   | 10,981    | 7,305    | 423    | 472    | 463    | 434    | 296    | 245    | 259    | 273    | 256    | 162    | 104    | 92     | 112    | 85     |
| Individuals.....   | 171,171   | 96,999   | 4,775  | 4,924  | 4,522  | 4,234  | 4,493  | 4,538  | 4,516  | 4,725  | 6,109  | 6,084  | 6,267  | 6,515  | 6,374  | 6,096  |

NA = not available

NOTE: Country of origin determined by residence of first-named inventor.

SOURCE: U.S. Patent and Trademark Office, Office of Electronic Information Products, Patent Technology Monitoring Division, special tabulations (December 2004).

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