

# **PATENTING BY ORGANIZATIONS**

**(Utility Patents)**

**2012**



April 2012  
U.S. PATENT AND TRADEMARK OFFICE  
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*A PATENT TECHNOLOGY MONITORING TEAM REPORT*

## Patenting By Organizations (Utility Patents) 2012

This report, prepared from the Technology Assessment and Forecast (TAF) database, profiles utility patents (i.e., patents for inventions) granted during **calendar year 2012**.

### **Part A1**

**Part A1** presents patent counts by origin, U.S. and foreign. Individual counts are also presented for each of the top 36 patenting countries. Patent origin is determined by the residence of the first-named inventor listed on a patent.

Patent ownership-category information reflects ownership at the time of patent grant and does not reflect subsequent changes in ownership. If more than one assignee (the entity, if any, to which the patent rights have been legally assigned) was declared at the time of grant, a patent is attributed to the ownership-category of the first-named assignee. The "U.S. Corporations" and "Foreign Corporations" ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in these categories. While the "U.S. Government" ownership category includes only patents granted to the Federal Government, no such distinction is made for the "Foreign Government" ownership category. The "U.S. Individuals" and "Foreign Individuals" ownership categories include patents for which ownership was assigned to an individual as well as patents for which no assignment of ownership was made at the time of grant.

### **Part B1**

**Part B1** presents organizations that received 40 or more patents during the calendar year. Organizations are ranked based on their patent count. **Please note that because of the large number of organizations appearing in this report, the minimum number of annual patents received by a listed organization was raised from 30, for the 1997 report, to 40 for the 1998 and subsequent reports.**

Patent information included in **Part B1** of the report reflects patent ownership at the time of patent grant and does not reflect changes in ownership which may occur after the patent grant. Where more than one assignee exists, patents are attributed to the first-named assignee.

**No attempt has been made to combine data based on subsidiary relationships. However, where possible, spelling variations and variations based on name changes (e.g., ESSO to EXXON) have been merged into a single name. While every effort is made to accurately identify all organizational entities and report data by a single organizational name, achievement of a totally clean record is not expected, particularly in view of the many variations which may occur in corporate identifications.**

## **Patenting By The U.S. Government 2012**

In **calendar year 2012**, the U.S. Government received 992 utility patents.

Under the section labeled "Ownership", **Part A1** presents the total count of utility patents received by the U.S. Government during the calendar year. Each of the separate U.S. Government agencies receiving 40 or more utility patents during the calendar year is listed in **Part B1**.

**Part A1**

**(Patent Grants as Distributed By Year of Patent Grant)**

Number of Utility Patents Granted By Year Of Patent Grant  
 (Granted: Jan 01, 2012 - Dec 31, 2012)

| <u>COUNTRY OF ORIGIN</u> | <u>2012</u> | <u>Total</u> |
|--------------------------|-------------|--------------|
| Total                    | 253155      | 253155       |
| U.S. Origin              | 121026      | 121026       |
| Foreign Origin           | 132129      | 132129       |
| JAPAN                    | 50677       | 50677        |
| GERMANY                  | 13835       | 13835        |
| KOREA, SOUTH             | 13233       | 13233        |
| TAIWAN                   | 10646       | 10646        |
| CANADA                   | 5775        | 5775         |
| FRANCE                   | 5386        | 5386         |
| UNITED KINGDOM           | 5213        | 5213         |
| CHINA, PEOPLE'S REPUB    | 4637        | 4637         |
| ISRAEL                   | 2474        | 2474         |
| ITALY                    | 2120        | 2120         |
| SWEDEN                   | 2081        | 2081         |
| NETHERLANDS              | 1904        | 1904         |
| SWITZERLAND              | 1831        | 1831         |
| INDIA                    | 1691        | 1691         |
| AUSTRALIA                | 1525        | 1525         |
| FINLAND                  | 1064        | 1064         |
| BELGIUM                  | 866         | 866          |
| AUSTRIA                  | 858         | 858          |
| DENMARK                  | 850         | 850          |
| SINGAPORE                | 810         | 810          |
| SPAIN                    | 642         | 642          |
| CHINA, HONG KONG S.A.    | 532         | 532          |
| NORWAY                   | 444         | 444          |
| IRELAND                  | 339         | 339          |
| RUSSIAN FEDERATION       | 331         | 331          |
| NEW ZEALAND              | 223         | 223          |
| MALAYSIA                 | 210         | 210          |
| BRAZIL                   | 196         | 196          |
| SAUDI ARABIA             | 170         | 170          |
| SOUTH AFRICA             | 142         | 142          |
| CZECH REPUBLIC           | 127         | 127          |
| MEXICO                   | 122         | 122          |
| HUNGARY                  | 105         | 105          |
| GREECE                   | 82          | 82           |
| POLAND                   | 77          | 77           |
| ARGENTINA                | 63          | 63           |
| Others ( 74 )            | 848         | 848          |
| Ownership:               |             |              |
| U.S. Corporations        | 111808      | 111808       |
| U.S. Government          | 992         | 992          |
| U.S. Individuals         | 12148       | 12148        |
| Foreign Corporations     | 122933      | 122933       |
| Foreign Government       | 249         | 249          |
| Foreign Individuals      | 5025        | 5025         |

Percent of Utility Patents Granted By Year Of Patent Grant  
 (Granted: Jan 01, 2012 - Dec 31, 2012)

| <u>COUNTRY OF ORIGIN</u> | <u>2012</u> | <u>Total</u> |
|--------------------------|-------------|--------------|
| Total                    | 100         | 100          |
| U.S. Origin              | 48          | 48           |
| Foreign Origin           | 52          | 52           |
| JAPAN                    | 20          | 20           |
| GERMANY                  | 5           | 5            |
| KOREA, SOUTH             | 5           | 5            |
| TAIWAN                   | 4           | 4            |
| CANADA                   | 2           | 2            |
| FRANCE                   | 2           | 2            |
| UNITED KINGDOM           | 2           | 2            |
| CHINA, PEOPLE'S REPUB    | 2           | 2            |
| ISRAEL                   | 1           | 1            |
| ITALY                    | 1           | 1            |
| SWEDEN                   | 1           | 1            |
| NETHERLANDS              | 1           | 1            |
| SWITZERLAND              | 1           | 1            |
| INDIA                    | 1           | 1            |
| AUSTRALIA                | 1           | 1            |
| FINLAND                  |             | 0            |
| BELGIUM                  |             | 0            |
| AUSTRIA                  |             | 0            |
| DENMARK                  |             | 0            |
| SINGAPORE                |             | 0            |
| SPAIN                    |             | 0            |
| CHINA, HONG KONG S.A.    |             | 0            |
| NORWAY                   |             | 0            |
| IRELAND                  |             | 0            |
| RUSSIAN FEDERATION       |             | 0            |
| NEW ZEALAND              |             | 0            |
| MALAYSIA                 |             | 0            |
| BRAZIL                   |             | 0            |
| SAUDI ARABIA             |             | 0            |
| SOUTH AFRICA             |             | 0            |
| CZECH REPUBLIC           |             | 0            |
| MEXICO                   |             | 0            |
| HUNGARY                  |             | 0            |
| GREECE                   |             | 0            |
| POLAND                   |             | 0            |
| ARGENTINA                |             | 0            |
| Others ( 74 )            |             | 0            |
| Ownership:               |             |              |
| U.S. Corporations        | 44          | 44           |
| U.S. Government          |             | 0            |
| U.S. Individuals         | 5           | 5            |
| Foreign Corporations     | 49          | 49           |
| Foreign Government       |             | 0            |
| Foreign Individuals      | 2           | 2            |

**Part B1**

**(Ranked Listing of Organizations with  
Patent Grants Distributed By Year of Patent Grant)**

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| INTERNATIONAL BUSINESS MACHINES CORPORATION<br>Patents By Year of Grant: | 6457        | 6457         |
| SAMSUNG ELECTRONICS CO., LTD.<br>Patents By Year of Grant:               | 5043        | 5043         |
| CANON KABUSHIKI KAISHA<br>Patents By Year of Grant:                      | 3173        | 3173         |
| SONY CORPORATION<br>Patents By Year of Grant:                            | 3017        | 3017         |
| PANASONIC CORPORATION<br>Patents By Year of Grant:                       | 2748        | 2748         |
| MICROSOFT CORPORATION<br>Patents By Year of Grant:                       | 2610        | 2610         |
| TOSHIBA CORPORATION<br>Patents By Year of Grant:                         | 2415        | 2415         |
| GENERAL ELECTRIC COMPANY<br>Patents By Year of Grant:                    | 1650        | 1650         |
| LG ELECTRONICS INC.<br>Patents By Year of Grant:                         | 1617        | 1617         |
| FUJITSU LIMITED<br>Patents By Year of Grant:                             | 1527        | 1527         |
| SEIKO EPSON CORPORATION<br>Patents By Year of Grant:                     | 1454        | 1454         |
| HITACHI, LTD<br>Patents By Year of Grant:                                | 1428        | 1428         |
| RICOH COMPANY, LTD.<br>Patents By Year of Grant:                         | 1407        | 1407         |
| HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.<br>Patents By Year of Grant:   | 1393        | 1393         |
| GM GLOBAL TECHNOLOGY OPERATIONS, INC.<br>Patents By Year of Grant:       | 1374        | 1374         |
| QUALCOMM, INC.<br>Patents By Year of Grant:                              | 1292        | 1292         |
| INTEL CORPORATION<br>Patents By Year of Grant:                           | 1287        | 1287         |
| TOYOTA JIDOSHA K.K.<br>Patents By Year of Grant:                         | 1173        | 1173         |
| BROADCOM CORPORATION<br>Patents By Year of Grant:                        | 1157        | 1157         |
| GOOGLE, INC.<br>Patents By Year of Grant:                                | 1151        | 1151         |
| APPLE, INC.<br>Patents By Year of Grant:                                 | 1136        | 1136         |
| SHARP KABUSHIKI KAISHA (SHARP CORPORATION)<br>Patents By Year of Grant:  | 1097        | 1097         |



Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)<br>Patents By Year of Grant: | 1074        | 1074         |
| XEROX CORPORATION<br>Patents By Year of Grant:  | 1047        | 1047         |
| RENESAS ELECTRONICS CORP.<br>Patents By Year of Grant:                                  | 1024        | 1024         |
| FUJIFILM CORPORATION<br>Patents By Year of Grant:                                       | 1022        | 1022         |
| HON HAI PRECISION IND. CO., LTD.<br>Patents By Year of Grant:                           | 1014        | 1014         |
| BROTHER KOGYO KABUSHIKI KAISHA<br>Patents By Year of Grant:                             | 1012        | 1012         |
| RESEARCH IN MOTION LIMITED<br>Patents By Year of Grant:                                 | 986         | 986          |
| SIEMENS AKTIENGESELLSCHAFT<br>Patents By Year of Grant:                                 | 962         | 962          |
| CISCO TECHNOLOGY, INC.<br>Patents By Year of Grant:                                     | 950         | 950          |
| MICRON TECHNOLOGY, INC.<br>Patents By Year of Grant:                                    | 913         | 913          |
| AT& T INTELLECTUAL PROPERTY I, L.P.<br>Patents By Year of Grant:                        | 885         | 885          |
| SEMICONDUCTOR ENERGY LABORATORY CO., LTD.<br>Patents By Year of Grant:                  | 861         | 861          |
| TELEFONAKTIEBOLAGET LM ERICSSON<br>Patents By Year of Grant:                            | 843         | 843          |
| TEXAS INSTRUMENTS, INCORPORATED<br>Patents By Year of Grant:                            | 826         | 826          |
| KONINKLIJKE PHILIPS ELECTRONICS N.V.<br>Patents By Year of Grant:                       | 820         | 820          |
| HONEYWELL INTERNATIONAL INC.<br>Patents By Year of Grant:                               | 815         | 815          |
| NEC CORPORATION<br>Patents By Year of Grant:  | 806         | 806          |
| HONG FU JIN PRECISION INDUSTRY (SHENZHEN) CO., LTD.<br>Patents By Year of Grant:        | 782         | 782          |
| ROBERT BOSCH GMBH<br>Patents By Year of Grant:  | 743         | 743          |
| DENSO CORPORATION<br>Patents By Year of Grant:  | 704         | 704          |
| MITSUBISHI DENKI KABUSHIKI KAISHA<br>Patents By Year of Grant:                          | 691         | 691          |
| FUJI XEROX CO., LTD.<br>Patents By Year of Grant:                                       | 683         | 683          |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| BOEING COMPANY<br>Patents By Year of Grant:  | 672         | 672          |
| HYNIX SEMICONDUCTOR INC.<br>Patents By Year of Grant:                              | 672         | 672          |
| TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.<br>Patents By Year of Grant:          | 649         | 649          |
| ALCATEL LUCENT<br>Patents By Year of Grant:  | 630         | 630          |
| LG DISPLAY CO., LTD.<br>Patents By Year of Grant:                                  | 625         | 625          |
| ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE<br>Patents By Year of Grant: | 616         | 616          |
| NOKIA CORPORATION<br>Patents By Year of Grant:                                     | 605         | 605          |
| MARVELL INTERNATIONAL LTD.<br>Patents By Year of Grant:                            | 593         | 593          |
| FORD GLOBAL TECHNOLOGIES, L.L.C.<br>Patents By Year of Grant:                      | 560         | 560          |
| INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN<br>Patents By Year of Grant:      | 540         | 540          |
| HUAWEI TECHNOLOGIES CO., LTD.<br>Patents By Year of Grant:                         | 532         | 532          |
| SAP AKTIENGESELLSCHAFT<br>Patents By Year of Grant:                                | 506         | 506          |
| E. I. DU PONT DE NEMOURS AND COMPANY<br>Patents By Year of Grant:                  | 462         | 462          |
| ORACLE INTERNATIONAL CORPORATION<br>Patents By Year of Grant:                      | 462         | 462          |
| SANYO ELECTRIC CO., LTD.<br>Patents By Year of Grant:                              | 462         | 462          |
| SCHLUMBERGER TECHNOLOGY CORPORATION<br>Patents By Year of Grant:                   | 462         | 462          |
| INFINEON TECHNOLOGIES AG<br>Patents By Year of Grant:                              | 460         | 460          |
| KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.<br>Patents By Year of Grant:            | 451         | 451          |
| TYCO HEALTHCARE GROUP LP<br>Patents By Year of Grant:                              | 447         | 447          |
| FREESCALE SEMICONDUCTOR, INC.<br>Patents By Year of Grant:                         | 438         | 438          |
| EASTMAN KODAK COMPANY<br>Patents By Year of Grant:                                 | 428         | 428          |
| ORACLE AMERICA, INC.<br>Patents By Year of Grant:                                  | 425         | 425          |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| MEDTRONIC INC.<br>Patents By Year of Grant:                                       | 422         | 422          |
| TOKYO ELECTRON LIMITED<br>Patents By Year of Grant:                               | 421         | 421          |
| SPRINT COMMUNICATIONS COMPANY L.P.<br>Patents By Year of Grant:                   | 399         | 399          |
| BOSTON SCIENTIFIC SCIMED, INC.<br>Patents By Year of Grant:                       | 398         | 398          |
| PROCTER + GAMBLE COMPANY<br>Patents By Year of Grant:                             | 395         | 395          |
| 3M INNOVATIVE PROPERTIES COMPANY<br>Patents By Year of Grant:                     | 391         | 391          |
| AU OPTRONICS CORP.<br>Patents By Year of Grant:                                   | 385         | 385          |
| PIONEER HI-BRED INTERNATIONAL, INC.<br>Patents By Year of Grant:                  | 382         | 382          |
| BAKER HUGHES INCORPORATED<br>Patents By Year of Grant:                            | 368         | 368          |
| OLYMPUS CORPORATION<br>Patents By Year of Grant:                                  | 365         | 365          |
| RAYTHEON COMPANY<br>Patents By Year of Grant:                                     | 365         | 365          |
| SAMSUNG ELECTRO-MECHANICS CO., LTD.<br>Patents By Year of Grant:                  | 357         | 357          |
| UNIVERSITY OF CALIFORNIA, THE REGENTS OF<br>Patents By Year of Grant:             | 357         | 357          |
| UNITED STATES OF AMERICA, NAVY<br>Patents By Year of Grant:                       | 355         | 355          |
| BASF SE<br>Patents By Year of Grant:  | 349         | 349          |
| NTT DOCOMO, INC.<br>Patents By Year of Grant:                                     | 348         | 348          |
| LOCKHEED MARTIN CORPORATION<br>Patents By Year of Grant:                          | 346         | 346          |
| NIKON CORPORATION<br>Patents By Year of Grant:                                    | 340         | 340          |
| THOMSON LICENSING S.A.<br>Patents By Year of Grant:                               | 335         | 335          |
| HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.<br>Patents By Year of Grant: | 334         | 334          |
| ADOBE SYSTEMS, INC.<br>Patents By Year of Grant:                                  | 332         | 332          |
| APPLIED MATERIALS, INC.<br>Patents By Year of Grant:                              | 331         | 331          |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| SEAGATE TECHNOLOGY, LLC<br>Patents By Year of Grant:              | 325         | 325          |
| MOTOROLA-MOBILITY, INC.<br>Patents By Year of Grant:              | 323         | 323          |
| SYMANTEC CORPORATION<br>Patents By Year of Grant:                 | 323         | 323          |
| EMC CORPORATION<br>Patents By Year of Grant:                      | 319         | 319          |
| MONSANTO TECHNOLOGY, LLC<br>Patents By Year of Grant:             | 318         | 318          |
| UNITED TECHNOLOGIES CORPORATION<br>Patents By Year of Grant:      | 318         | 318          |
| KYOCERA CORPORATION<br>Patents By Year of Grant:                  | 315         | 315          |
| LSI CORPORATION<br>Patents By Year of Grant:                      | 307         | 307          |
| NXP B.V.<br>Patents By Year of Grant:                             | 306         | 306          |
| AT& T INTELLECTUAL PROPERTY II, L.P.<br>Patents By Year of Grant: | 303         | 303          |
| INVENTION SCIENCE FUND I, LLC<br>Patents By Year of Grant:        | 298         | 298          |
| SAMSUNG SDI CO., LTD.<br>Patents By Year of Grant:                | 298         | 298          |
| CARDIAC PACEMAKERS, INC.<br>Patents By Year of Grant:             | 295         | 295          |
| TDK CORPORATION<br>Patents By Year of Grant:                      | 295         | 295          |
| FUJITSU SEMICONDUCTOR LIMITED<br>Patents By Year of Grant:        | 290         | 290          |
| AMAZON TECHNOLOGIES, INC.<br>Patents By Year of Grant:            | 287         | 287          |
| JUNIPER NETWORKS, INC.<br>Patents By Year of Grant:               | 286         | 286          |
| VERIZON PATENT AND LICENSING, INC.<br>Patents By Year of Grant:   | 285         | 285          |
| HYUNDAI MOTOR COMPANY<br>Patents By Year of Grant:                | 282         | 282          |
| INTERNATIONAL GAME TECHNOLOGY (IGT)<br>Patents By Year of Grant:  | 275         | 275          |
| HALLIBURTON ENERGY SERVICES, INC.<br>Patents By Year of Grant:    | 270         | 270          |
| NOVARTIS AG (FORMERLY SANDOZ LTD.)<br>Patents By Year of Grant:   | 270         | 270          |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| YAHOO, INC.<br>Patents By Year of Grant:                                     | 270         | 270          |
| CATERPILLAR INC.<br>Patents By Year of Grant:                                | 267         | 267          |
| MURATA MANUFACTURING CO., LTD.<br>Patents By Year of Grant:                  | 267         | 267          |
| NVIDIA CORPORATION<br>Patents By Year of Grant:                              | 267         | 267          |
| MEDIATEK INC.<br>Patents By Year of Grant:                                   | 264         | 264          |
| SAMSUNG MOBILE DISPLAY CO., LTD.<br>Patents By Year of Grant:                | 253         | 253          |
| HITACHI HIGH-TECHNOLOGIES CORPORATION<br>Patents By Year of Grant:           | 249         | 249          |
| ALTERA CORPORATION<br>Patents By Year of Grant:                              | 245         | 245          |
| HITACHI DISPLAYS, LTD.<br>Patents By Year of Grant:                          | 244         | 244          |
| CORNING INCORPORATED<br>Patents By Year of Grant:                            | 240         | 240          |
| NITTO DENKO CORPORATION<br>Patents By Year of Grant:                         | 238         | 238          |
| SAMSUNG DISPLAY CO., LTD.<br>Patents By Year of Grant:                       | 237         | 237          |
| STATS CHIPPAK LTD.<br>Patents By Year of Grant:                              | 236         | 236          |
| DELL PRODUCTS, L.P.<br>Patents By Year of Grant:                             | 234         | 234          |
| XILINX, INC.<br>Patents By Year of Grant:                                    | 232         | 232          |
| AVAYA TECHNOLOGY CORP.<br>Patents By Year of Grant:                          | 230         | 230          |
| LG CHEMICAL LTD.<br>Patents By Year of Grant:                                | 224         | 224          |
| mitsubishi heavy industries, LTD.<br>Patents By Year of Grant:               | 224         | 224          |
| COMMISSARIAT A L'ENERGIE ATOMIQUE<br>Patents By Year of Grant:               | 223         | 223          |
| NIKE, INC.<br>Patents By Year of Grant:                                      | 223         | 223          |
| SHENZHEN FUTAIHONG PRECISION INDUSTRY CO., LTD.<br>Patents By Year of Grant: | 219         | 219          |
| MASSACHUSETTS INSTITUTE OF TECHNOLOGY<br>Patents By Year of Grant:           | 216         | 216          |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| OLYMPUS MEDICAL SYSTEMS CORP.<br>Patents By Year of Grant:                             | 216         | 216          |
| WMS GAMING, INC.<br>Patents By Year of Grant:  | 210         | 210          |
| WARSAW ORTHOPEDIC, INC.<br>Patents By Year of Grant:                                   | 209         | 209          |
| LG INNOTEK CO., LTD<br>Patents By Year of Grant:                                       | 205         | 205          |
| KIMBERLY-CLARK WORLDWIDE, INC.<br>Patents By Year of Grant:                            | 204         | 204          |
| SUMITOMO CHEMICAL COMPANY, LIMITED<br>Patents By Year of Grant:                        | 204         | 204          |
| AIRBUS OPERATIONS S.A.S.<br>Patents By Year of Grant:                                  | 203         | 203          |
| MOTOROLA SOLUTIONS, INC.<br>Patents By Year of Grant:                                  | 201         | 201          |
| DOW GLOBAL TECHNOLOGIES INC.<br>Patents By Year of Grant:                              | 199         | 199          |
| SCHAEFFLER TECHNOLOGIES AG & CO. KG<br>Patents By Year of Grant:                       | 199         | 199          |
| ZF FRIEDRICHSHAFEN, AG<br>Patents By Year of Grant:                                    | 197         | 197          |
| CASIO COMPUTER CO. LTD.<br>Patents By Year of Grant:                                   | 196         | 196          |
| ELPIDA MEMORY, INC.<br>Patents By Year of Grant:                                       | 195         | 195          |
| AT& T MOBILITY II LLC<br>Patents By Year of Grant:                                     | 190         | 190          |
| SILVERBROOK RESEARCH PTY. LTD<br>Patents By Year of Grant:                             | 189         | 189          |
| YAMAHA HATSUDOKI KABUSHIKI KAISHA, YAMAHA MOTOR CO., LTD.<br>Patents By Year of Grant: | 189         | 189          |
| SIEMENS MEDICAL SOLUTIONS USA, INC.<br>Patents By Year of Grant:                       | 188         | 188          |
| SUMITOMO ELECTRIC INDUSTRIES, LTD.<br>Patents By Year of Grant:                        | 188         | 188          |
| THALES<br>Patents By Year of Grant:  | 187         | 187          |
| OKIDATA CORPORATION<br>Patents By Year of Grant:                                       | 186         | 186          |
| DEERE + COMPANY<br>Patents By Year of Grant:   | 185         | 185          |
| MACRONIX INTERNATIONAL CO., LTD.<br>Patents By Year of Grant:                          | 185         | 185          |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| STANFORD UNIVERSITY<br>Patents By Year of Grant:   | 182         | 182          |
| YAMAHA CORPORATION<br>Patents By Year of Grant:  | 179         | 179          |
| ADVANCED MICRO DEVICES, INC.<br>Patents By Year of Grant:  | 178         | 178          |
| NETAPP, INC.<br>Patents By Year of Grant:  | 177         | 177          |
| ASML NETHERLANDS B.V.<br>Patents By Year of Grant:   | 176         | 176          |
| SONY ERICSSON MOBILE COMMUNICATIONS AB<br>Patents By Year of Grant:                                | 176         | 176          |
| SANDISK TECHNOLOGIES INC.<br>Patents By Year of Grant:   | 175         | 175          |
| FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>Patents By Year of Grant: | 174         | 174          |
| CHIMEI-INNOLUX CORPORATION<br>Patents By Year of Grant:  | 172         | 172          |
| RED HAT, INC.<br>Patents By Year of Grant:   | 172         | 172          |
| UNITED STATES OF AMERICA, ARMY<br>Patents By Year of Grant:  | 172         | 172          |
| ROHM CO., LTD.<br>Patents By Year of Grant:  | 171         | 171          |
| UOP<br>Patents By Year of Grant:   | 171         | 171          |
| ABBOTT LABORATORIES<br>Patents By Year of Grant:   | 170         | 170          |
| SHARP LABORATORIES OF AMERICA, INC.<br>Patents By Year of Grant:                                   | 170         | 170          |
| SPRINT SPECTRUM L.P.<br>Patents By Year of Grant:  | 170         | 170          |
| ETHICON ENDO-SURGERY, INC.<br>Patents By Year of Grant:  | 169         | 169          |
| SHIN ETSU CHEMICAL CO., LTD.<br>Patents By Year of Grant:  | 167         | 167          |
| BANK OF AMERICA CORPORATION<br>Patents By Year of Grant:   | 165         | 165          |
| NISSAN MOTOR COMPANY, LIMITED<br>Patents By Year of Grant:   | 165         | 165          |
| TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.<br>Patents By Year of Grant:          | 165         | 165          |
| ANALOG DEVICES, INC.<br>Patents By Year of Grant:  | 164         | 164          |

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| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| GLOBALFOUNDRIES INC.<br>Patents By Year of Grant:                   | 164         | 164          |
| LAM RESEARCH CORPORATION<br>Patents By Year of Grant:               | 164         | 164          |
| CHUNGHWA PICTURE TUBES, LTD.<br>Patents By Year of Grant:           | 161         | 161          |
| ROLLS-ROYCE PLC<br>Patents By Year of Grant:                        | 161         | 161          |
| COOK MEDICAL TECHNOLOGIES LLC<br>Patents By Year of Grant:          | 160         | 160          |
| FUNAI ELECTRIC CO., LTD.<br>Patents By Year of Grant:               | 160         | 160          |
| SEIKO INSTRUMENTS INC.<br>Patents By Year of Grant:                 | 159         | 159          |
| CADENCE DESIGN SYSTEMS, INC.<br>Patents By Year of Grant:           | 157         | 157          |
| PALO ALTO RESEARCH CENTER INCORPORATED<br>Patents By Year of Grant: | 157         | 157          |
| TYCO ELECTRONICS CORPORATION<br>Patents By Year of Grant:           | 156         | 156          |
| WISCONSIN ALUMNI RESEARCH FOUNDATION<br>Patents By Year of Grant:   | 155         | 155          |
| HAMILTON SUNDSTRAND CORPORATION<br>Patents By Year of Grant:        | 154         | 154          |
| ACUSHNET COMPANY<br>Patents By Year of Grant:                       | 153         | 153          |
| LEXMARK INTERNATIONAL, INC.<br>Patents By Year of Grant:            | 153         | 153          |
| CONTINENTAL AUTOMOTIVE GMBH<br>Patents By Year of Grant:            | 152         | 152          |
| ILLINOIS TOOL WORKS INC.<br>Patents By Year of Grant:               | 151         | 151          |
| SONY COMPUTER ENTERTAINMENT INC.<br>Patents By Year of Grant:       | 151         | 151          |
| JTEKT CORPORATION<br>Patents By Year of Grant:                      | 150         | 150          |
| NTN CORPORATION<br>Patents By Year of Grant:                        | 150         | 150          |
| CYPRESS SEMICONDUCTOR CORP.<br>Patents By Year of Grant:            | 149         | 149          |
| INTERDIGITAL TECHNOLOGY CORPORATION<br>Patents By Year of Grant:    | 149         | 149          |
| TSINGHUA UNIVERSITY<br>Patents By Year of Grant:                    | 149         | 149          |



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| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| ROCKSTAR BIDCO L.P.<br>Patents By Year of Grant:   | 148         | 148          |
| STMICROELECTRONICS S.R.L.<br>Patents By Year of Grant:   | 148         | 148          |
| KYOCERA MITA CORPORATION<br>Patents By Year of Grant:  | 145         | 145          |
| ROCHE DIAGNOSTICS OPERATIONS, INC.<br>Patents By Year of Grant:  | 145         | 145          |
| AISIN AW CO., LTD.<br>Patents By Year of Grant:  | 143         | 143          |
| PACSETER, INC.<br>Patents By Year of Grant:  | 143         | 143          |
| SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION "S.N.E.C.M.A."<br>Patents By Year of Grant: | 142         | 142          |
| IBIDEN CO., LTD.<br>Patents By Year of Grant:  | 141         | 141          |
| SYNOPSIS INC.<br>Patents By Year of Grant:   | 141         | 141          |
| UNIVERSITY OF TEXAS<br>Patents By Year of Grant:   | 141         | 141          |
| EBAY INC.<br>Patents By Year of Grant:   | 139         | 139          |
| WHIRLPOOL CORPORATION<br>Patents By Year of Grant:   | 138         | 138          |
| NINTENDO CO., LTD.<br>Patents By Year of Grant:  | 137         | 137          |
| REALTEK SEMICONDUCTOR CORPORATION<br>Patents By Year of Grant:   | 137         | 137          |
| UNITED MICROELECTRONICS CORPORATION<br>Patents By Year of Grant:   | 137         | 137          |
| AGERE SYSTEMS INC.<br>Patents By Year of Grant:  | 136         | 136          |
| CALIFORNIA INSTITUTE OF TECHNOLOGY<br>Patents By Year of Grant:  | 136         | 136          |
| DAIKIN INDUSTRIES LIMITED<br>Patents By Year of Grant:   | 135         | 135          |
| KAO KABUSHIKI KAISHA (KAO CORPORATION)<br>Patents By Year of Grant:  | 135         | 135          |
| EXXONMOBIL CHEMICAL PATENTS INC.<br>Patents By Year of Grant:  | 134         | 134          |
| SHELL OIL COMPANY<br>Patents By Year of Grant:   | 134         | 134          |
| UNITED STATES OF AMERICA, DEPARTMENT OF HEALTH & HUMAN SERVICES<br>Patents By Year of Grant:                   | 131         | 131          |

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| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| AISIN SEIKI KABUSHIKI KAISHA<br>Patents By Year of Grant:                           | 130         | 130          |
| AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY, INC.<br>Patents By Year of Grant: | 130         | 130          |
| EATON CORPORATION<br>Patents By Year of Grant:                                      | 130         | 130          |
| RAMBUS, INC.<br>Patents By Year of Grant:   | 130         | 130          |
| MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG<br>Patents By Year of Grant:     | 129         | 129          |
| NEC LABORATORIES AMERICA, INC.<br>Patents By Year of Grant:                         | 129         | 129          |
| SIEMENS ENERGY, INC.<br>Patents By Year of Grant:                                   | 129         | 129          |
| AIRBUS OPERATIONS GMBH<br>Patents By Year of Grant:                                 | 128         | 128          |
| FU ZHUN PRECISION INDUSTRY (SHENZHEN) CO., LTD.<br>Patents By Year of Grant:        | 127         | 127          |
| HOYA CORPORATION<br>Patents By Year of Grant:                                       | 127         | 127          |
| SEMICONDUCTOR COMPONENTS INDUSTRIES, LLC<br>Patents By Year of Grant:               | 127         | 127          |
| ASAHI GLASS COMPANY, LTD.<br>Patents By Year of Grant:                              | 126         | 126          |
| HTC CORPORATION<br>Patents By Year of Grant:  | 126         | 126          |
| MERCK SHARP & DOHME CORP.<br>Patents By Year of Grant:                              | 126         | 126          |
| CHEVRON U.S.A. INC.<br>Patents By Year of Grant:                                    | 125         | 125          |
| UNIVERSAL ENTERTAINMENT CORPORATION<br>Patents By Year of Grant:                    | 125         | 125          |
| HIMAX TECHNOLOGIES LIMITED<br>Patents By Year of Grant:                             | 124         | 124          |
| MARVELL WORLD TRADE LTD.<br>Patents By Year of Grant:                               | 124         | 124          |
| ABBOTT DIABETES CARE INC.<br>Patents By Year of Grant:                              | 123         | 123          |
| DONGBU HITEK CO., LTD.<br>Patents By Year of Grant:                                 | 123         | 123          |
| BAYER CROPSCIENCE AG<br>Patents By Year of Grant:                                   | 122         | 122          |
| NATIONAL TAIWAN UNIVERSITY<br>Patents By Year of Grant:                             | 122         | 122          |

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| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| HARRIS CORP.<br>Patents By Year of Grant:                                       | 121         | 121          |
| NGK INSULATORS LTD.<br>Patents By Year of Grant:                                | 121         | 121          |
| NUANCE COMMUNICATIONS, INC.<br>Patents By Year of Grant:                        | 121         | 121          |
| INTUIT, INC.<br>Patents By Year of Grant:                                       | 120         | 120          |
| ROCKWELL AUTOMATION TECHNOLOGIES, INC.<br>Patents By Year of Grant:             | 120         | 120          |
| BRISTOL-MYERS SQUIBB COMPANY<br>Patents By Year of Grant:                       | 119         | 119          |
| SHOWA DENKO KABUSHIKI KAISHA<br>Patents By Year of Grant:                       | 117         | 117          |
| JANSSEN PHARMACEUTICA N.V.<br>Patents By Year of Grant:                         | 116         | 116          |
| PIONEER CORPORATION<br>Patents By Year of Grant:                                | 116         | 116          |
| UNITED SERVICES AUTOMOBILE ASSOCIATION (USAA)<br>Patents By Year of Grant:      | 116         | 116          |
| WESTERN DIGITAL TECHNOLOGIES, INC.<br>Patents By Year of Grant:                 | 116         | 116          |
| DELTA ELECTRONICS INC.<br>Patents By Year of Grant:                             | 115         | 115          |
| HOFFMANN-LA ROCHE INC.<br>Patents By Year of Grant:                             | 115         | 115          |
| KONAMI DIGITAL ENTERTAINMENT CO., LTD.<br>Patents By Year of Grant:             | 115         | 115          |
| CHENG UEI PRECISION INDUSTRY CO., LTD.<br>Patents By Year of Grant:             | 113         | 113          |
| CREE, INC.<br>Patents By Year of Grant:   | 113         | 113          |
| DAI NIPPON PRINTING CO. LTD<br>Patents By Year of Grant:                        | 113         | 113          |
| DISNEY ENTERPRISES, INC.<br>Patents By Year of Grant:                           | 113         | 113          |
| OSRAM GMBH<br>Patents By Year of Grant:   | 113         | 113          |
| SPANSION LLC<br>Patents By Year of Grant:                                       | 113         | 113          |
| KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)<br>Patents By Year of Grant: | 112         | 112          |
| ACCENTURE GLOBAL SERVICES LIMITED<br>Patents By Year of Grant:                  | 111         | 111          |

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| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| ADVANTEST CORP.<br>Patents By Year of Grant:   | 111         | 111          |
| ALLERGAN, INC.<br>Patents By Year of Grant:  | 111         | 111          |
| BRIDGESTONE CORPORATION<br>Patents By Year of Grant:   | 111         | 111          |
| CHI MEI COMMUNICATION SYSTEMS, INC.<br>Patents By Year of Grant:                                     | 111         | 111          |
| DELPHI TECHNOLOGIES, INC.<br>Patents By Year of Grant:   | 111         | 111          |
| NGK SPARK PLUG CO., LTD.<br>Patents By Year of Grant:  | 110         | 110          |
| ADC TELECOMMUNICATIONS, INC.<br>Patents By Year of Grant:  | 109         | 109          |
| AGILENT TECHNOLOGIES, INC.<br>Patents By Year of Grant:  | 108         | 108          |
| CITRIX SYSTEMS, INC.<br>Patents By Year of Grant:  | 107         | 107          |
| ROCKWELL COLLINS, INC.<br>Patents By Year of Grant:  | 106         | 106          |
| VMWARE, INC.<br>Patents By Year of Grant:  | 106         | 106          |
| FAIRCHILD SEMICONDUCTOR CORPORATION<br>Patents By Year of Grant:                                     | 105         | 105          |
| SHIMADZU CORPORATION<br>Patents By Year of Grant:  | 105         | 105          |
| SHINKO ELECTRIC INDUSTRIES CO., LTD.<br>Patents By Year of Grant:                                    | 105         | 105          |
| THE MATH WORKS, INC.<br>Patents By Year of Grant:  | 105         | 105          |
| UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION<br>Patents By Year of Grant: | 105         | 105          |
| YAZAKI CORP.<br>Patents By Year of Grant:  | 105         | 105          |
| GENENTECH, INC.<br>Patents By Year of Grant:   | 104         | 104          |
| MITSUBISHI ELECTRIC RESEARCH LABORATORIES, INC.<br>Patents By Year of Grant:                         | 104         | 104          |
| FUJI ELECTRIC CO., LTD.<br>Patents By Year of Grant:   | 102         | 102          |
| ALSTOM TECHNOLOGY LTD<br>Patents By Year of Grant:   | 101         | 101          |
| ASUSTEK COMPUTER INC.<br>Patents By Year of Grant:   | 101         | 101          |

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| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| SYMBOL TECHNOLOGIES, INC.<br>Patents By Year of Grant:                   | 101         | 101          |
| ZTE CORPORATION<br>Patents By Year of Grant:                             | 101         | 101          |
| INTERSIL AMERICAS INC.<br>Patents By Year of Grant:                      | 100         | 100          |
| SIEMENS INDUSTRY, INC.<br>Patents By Year of Grant:                      | 100         | 100          |
| EMPIRE TECHNOLOGY DEVELOPMENT LLC<br>Patents By Year of Grant:           | 99          | 99           |
| FUTUREWEI TECHNOLOGIES, INC.<br>Patents By Year of Grant:                | 98          | 98           |
| L'OREAL S.A.<br>Patents By Year of Grant:                                | 98          | 98           |
| NATIONAL SEMICONDUCTOR CORPORATION<br>Patents By Year of Grant:          | 98          | 98           |
| BOSCH SIEMENS HAUSGERATE GMBH<br>Patents By Year of Grant:               | 97          | 97           |
| DSM IP ASSETS B.V.<br>Patents By Year of Grant:                          | 97          | 97           |
| PORSCHE AG<br>Patents By Year of Grant:                                  | 97          | 97           |
| UNIVERSITY OF MICHIGAN<br>Patents By Year of Grant:                      | 97          | 97           |
| ARM LIMITED<br>Patents By Year of Grant:                                 | 96          | 96           |
| BLACK & DECKER INC.<br>Patents By Year of Grant:                         | 96          | 96           |
| DIGIMARC CORPORATION<br>Patents By Year of Grant:                        | 96          | 96           |
| EXXONMOBIL RESEARCH AND ENGINEERING COMPANY<br>Patents By Year of Grant: | 96          | 96           |
| NOVATEK MICROELECTRONICS CORP.<br>Patents By Year of Grant:              | 96          | 96           |
| PRATT & WHITNEY CANADA CORP.<br>Patents By Year of Grant:                | 96          | 96           |
| VERTEX PHARMACEUTICALS, INC.<br>Patents By Year of Grant:                | 96          | 96           |
| CNH AMERICA LLC<br>Patents By Year of Grant:                             | 95          | 95           |
| KONICA MINOLTA OPTO, INC<br>Patents By Year of Grant:                    | 95          | 95           |
| ATMEL CORPORATION<br>Patents By Year of Grant:                           | 94          | 94           |

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| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| BAXTER INTERNATIONAL INC.<br>Patents By Year of Grant:  | 94          | 94           |
| CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS<br>Patents By Year of Grant:              | 93          | 93           |
| FRANCE TELECOM<br>Patents By Year of Grant:   | 93          | 93           |
| OMNIVISION TECHNOLOGIES INC.<br>Patents By Year of Grant:                                     | 93          | 93           |
| ASTRAZENECA AB<br>Patents By Year of Grant:   | 92          | 92           |
| CARL ZEISS SMT GMBH<br>Patents By Year of Grant:  | 92          | 92           |
| MSTAR SEMICONDUCTOR, INC.<br>Patents By Year of Grant:  | 92          | 92           |
| SANDIA CORPORATION<br>Patents By Year of Grant:   | 92          | 92           |
| BASF AKTIENGESELLSCHAFT<br>Patents By Year of Grant:  | 91          | 91           |
| OKI ELECTRIC INDUSTRY CO., LTD.<br>Patents By Year of Grant:                                  | 91          | 91           |
| OMRON CORPORATION<br>Patents By Year of Grant:  | 91          | 91           |
| OSRAM OPTO SEMICONDUCTORS GMBH<br>Patents By Year of Grant:                                   | 91          | 91           |
| SUMITOMO WIRING SYSTEMS, LTD.<br>Patents By Year of Grant:                                    | 91          | 91           |
| EVONIK DEGUSSA GMBH<br>Patents By Year of Grant:  | 90          | 90           |
| HEADWAY TECHNOLOGIES, INC.<br>Patents By Year of Grant:                                       | 90          | 90           |
| STMICROELECTRONICS S.A.<br>Patents By Year of Grant:  | 90          | 90           |
| BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION, INC.<br>Patents By Year of Grant: | 89          | 89           |
| BALLY GAMING, INC.<br>Patents By Year of Grant:   | 89          | 89           |
| HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN (HENKEL KGAA)<br>Patents By Year of Grant:            | 89          | 89           |
| SABIC INNOVATIVE PLASTICS, IP BV<br>Patents By Year of Grant:                                 | 89          | 89           |
| TORAY INDUSTRIES INC.<br>Patents By Year of Grant:  | 89          | 89           |
| OKI SEMICONDUCTOR CO., LTD.<br>Patents By Year of Grant:                                      | 88          | 88           |

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| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| QUALCOMM MEMS TECHNOLOGIES, INC.<br>Patents By Year of Grant:          | 88          | 88           |
| BOEHRINGER INGELHEIM INTERNATIONAL GMBH<br>Patents By Year of Grant:   | 87          | 87           |
| HITACHI CABLE, LTD.<br>Patents By Year of Grant:                       | 87          | 87           |
| LENOVO (SINGAPORE) PTE LTD<br>Patents By Year of Grant:                | 87          | 87           |
| ROUND ROCK RESEARCH, LLC<br>Patents By Year of Grant:                  | 87          | 87           |
| C. R. BARD, INC.<br>Patents By Year of Grant:                          | 86          | 86           |
| HAMAMATSU PHOTONICS KABUSHIKI KAISHA<br>Patents By Year of Grant:      | 86          | 86           |
| SILICON LABORATORIES INC.<br>Patents By Year of Grant:                 | 86          | 86           |
| ST-ERICSSON SA<br>Patents By Year of Grant:                            | 86          | 86           |
| ABBOTT CARDIOVASCULAR SYSTEMS, INC.<br>Patents By Year of Grant:       | 85          | 85           |
| LAWRENCE LIVERMORE NATIONAL SECURITY, LLC<br>Patents By Year of Grant: | 85          | 85           |
| NATIONAL CHIAO TUNG UNIVERSITY<br>Patents By Year of Grant:            | 85          | 85           |
| UNIVERSITY OF ILLINOIS<br>Patents By Year of Grant:                    | 85          | 85           |
| WISTRON CORPORATION<br>Patents By Year of Grant:                       | 85          | 85           |
| HITACHI KOKUSAI ELECTRIC INC.<br>Patents By Year of Grant:             | 84          | 84           |
| MCAFEE, INC.<br>Patents By Year of Grant:                              | 83          | 83           |
| POWER INTEGRATIONS, INC.<br>Patents By Year of Grant:                  | 83          | 83           |
| TELECOM ITALIA S.P.A.<br>Patents By Year of Grant:                     | 83          | 83           |
| TOKYO OHKA KOGYO CO., LTD.<br>Patents By Year of Grant:                | 83          | 83           |
| TRADING TECHNOLOGIES INTERNATIONAL, INC.<br>Patents By Year of Grant:  | 83          | 83           |
| UNIVERSITY OF SOUTHERN CALIFORNIA<br>Patents By Year of Grant:         | 83          | 83           |
| AIR PRODUCTS AND CHEMICALS, INC.<br>Patents By Year of Grant:          | 82          | 82           |

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| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| GENERAL HOSPITAL CORPORATION<br>Patents By Year of Grant:                | 82          | 82           |
| IDEMITSU KOSAN COMPANY LIMITED<br>Patents By Year of Grant:              | 82          | 82           |
| WESTERN DIGITAL (FREMONT), LLC<br>Patents By Year of Grant:              | 82          | 82           |
| AMGEN, INC.<br>Patents By Year of Grant:                                 | 81          | 81           |
| FINISAR CORPORATION<br>Patents By Year of Grant:                         | 81          | 81           |
| VIA TECHNOLOGIES, INC.<br>Patents By Year of Grant:                      | 81          | 81           |
| CONOPCO, INC.<br>Patents By Year of Grant:                               | 80          | 80           |
| FLORIDA TURBINE TECHNOLOGIES, INC.<br>Patents By Year of Grant:          | 80          | 80           |
| GEORGIA TECH RESEARCH CORP.<br>Patents By Year of Grant:                 | 80          | 80           |
| MOSAID TECHNOLOGIES INC.<br>Patents By Year of Grant:                    | 80          | 80           |
| NCR CORPORATION<br>Patents By Year of Grant:                             | 80          | 80           |
| QUALCOMM ATHEROS, INC.<br>Patents By Year of Grant:                      | 80          | 80           |
| ECOLAB USA INC.<br>Patents By Year of Grant:                             | 79          | 79           |
| FURUKAWA ELECTRIC CO., LTD.<br>Patents By Year of Grant:                 | 79          | 79           |
| JOHNS HOPKINS UNIVERSITY<br>Patents By Year of Grant:                    | 79          | 79           |
| NATIONAL TSING HUA UNIVERSITY<br>Patents By Year of Grant:               | 79          | 79           |
| PITNEY-BOWES, INC.<br>Patents By Year of Grant:                          | 79          | 79           |
| SANDISK IL LTD.<br>Patents By Year of Grant:                             | 79          | 79           |
| UNIVERSITY OF SOUTH FLORIDA<br>Patents By Year of Grant:                 | 79          | 79           |
| UNIVERSITY OF UTAH RESEARCH FOUNDATION<br>Patents By Year of Grant:      | 79          | 79           |
| AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH<br>Patents By Year of Grant: | 78          | 78           |
| CHEIL INDUSTRIES, INC.<br>Patents By Year of Grant:                      | 78          | 78           |



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| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| COLUMBIA UNIVERSITY<br>Patents By Year of Grant:                                | 78          | 78           |
| DEPUY PRODUCTS, INC.<br>Patents By Year of Grant:                               | 78          | 78           |
| UNIVERSITY OF PENNSYLVANIA<br>Patents By Year of Grant:                         | 78          | 78           |
| AOL LLC<br>Patents By Year of Grant:  | 77          | 77           |
| STINE SEED FARM, INC.<br>Patents By Year of Grant:                              | 77          | 77           |
| YOKOHAMA RUBBER CO., LTD.<br>Patents By Year of Grant:                          | 77          | 77           |
| ADVANCED CARDIOVASCULAR SYSTEMS, INC.<br>Patents By Year of Grant:              | 76          | 76           |
| HRL LABORATORIES, LLC<br>Patents By Year of Grant:                              | 76          | 76           |
| MATTEL INC.<br>Patents By Year of Grant:  | 76          | 76           |
| NELLCOR PURITAN BENNETT INCORPORATED<br>Patents By Year of Grant:               | 76          | 76           |
| NIPPON STEEL CORP.<br>Patents By Year of Grant:                                 | 76          | 76           |
| SIEMENS MEDICAL INSTRUMENTS PTE. LTD.<br>Patents By Year of Grant:              | 76          | 76           |
| ARISTOCRAT TECHNOLOGIES AUSTRALIA PTY LTD.<br>Patents By Year of Grant:         | 75          | 75           |
| BOSE CORPORATION<br>Patents By Year of Grant:                                   | 75          | 75           |
| KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY<br>Patents By Year of Grant: | 75          | 75           |
| MITSUI CHEMICALS, INCORPORATED<br>Patents By Year of Grant:                     | 75          | 75           |
| UNI-CHARM CORPORATION<br>Patents By Year of Grant:                              | 75          | 75           |
| VIASAT, INC.<br>Patents By Year of Grant:                                       | 75          | 75           |
| ATI TECHNOLOGIES ULC<br>Patents By Year of Grant:                               | 74          | 74           |
| JAPAN SCIENCE AND TECHNOLOGY AGENCY<br>Patents By Year of Grant:                | 74          | 74           |
| NHK SPRING CO., LTD.<br>Patents By Year of Grant:                               | 74          | 74           |
| SK HYNIX INC.<br>Patents By Year of Grant:                                      | 74          | 74           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| JP MORGAN CHASE BANK, N.A.<br>Patents By Year of Grant:                                       | 73          | 73           |
| KRONES AG<br>Patents By Year of Grant:  | 73          | 73           |
| NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY<br>Patents By Year of Grant: | 73          | 73           |
| CONTINENTAL TEVES AG & CO., OHG<br>Patents By Year of Grant:                                  | 72          | 72           |
| INFINEON TECHNOLOGIES AUSTRIA AG<br>Patents By Year of Grant:                                 | 72          | 72           |
| JOHNSON CONTROLS TECHNOLOGY COMPANY<br>Patents By Year of Grant:                              | 72          | 72           |
| LEAR CORPORATION<br>Patents By Year of Grant:   | 72          | 72           |
| MAXIM INTEGRATED PRODUCTS, INC.<br>Patents By Year of Grant:                                  | 72          | 72           |
| NESTEC, S.A.<br>Patents By Year of Grant:   | 72          | 72           |
| STANLEY ELECTRIC CO., LTD.<br>Patents By Year of Grant:                                       | 72          | 72           |
| TERUMO KABUSHIKI KAISHA (TERUMO CORPORATION)<br>Patents By Year of Grant:                     | 72          | 72           |
| UNIVERSITY OF CENTRAL FLORIDA<br>Patents By Year of Grant:                                    | 72          | 72           |
| EXXONMOBIL UPSTREAM RESEARCH COMPANY<br>Patents By Year of Grant:                             | 71          | 71           |
| HITACHI METALS LTD.<br>Patents By Year of Grant:  | 71          | 71           |
| NATIONAL INSTRUMENTS CORPORATION<br>Patents By Year of Grant:                                 | 71          | 71           |
| PPG INDUSTRIES OHIO INC.<br>Patents By Year of Grant:   | 71          | 71           |
| FUJIKURA LTD.<br>Patents By Year of Grant:  | 70          | 70           |
| NOKIA SIEMENS NETWORKS OY<br>Patents By Year of Grant:  | 70          | 70           |
| NORTHWESTERN UNIVERSITY<br>Patents By Year of Grant:  | 70          | 70           |
| SANDISK 3D LLC<br>Patents By Year of Grant:   | 70          | 70           |
| TOYODA GOSEI KABUSHIKI KAISHA<br>Patents By Year of Grant:                                    | 70          | 70           |
| UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED<br>Patents By Year of Grant:          | 70          | 70           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| UNIVERSITY OF WASHINGTON<br>Patents By Year of Grant:   | 70          | 70           |
| ABB TECHNOLOGY AG<br>Patents By Year of Grant:  | 69          | 69           |
| BOSTON SCIENTIFIC NEUROMODULATION CORPORATION<br>Patents By Year of Grant:  | 69          | 69           |
| DAIMLER AG<br>Patents By Year of Grant:   | 69          | 69           |
| DIGITALOPTICS CORPORATION EUROPE LIMITED<br>Patents By Year of Grant:   | 69          | 69           |
| DOW AGROSCIENCES LLC<br>Patents By Year of Grant:   | 69          | 69           |
| INTERUNIVERSITAIR MICRO-ELEKTRONICA CENTRUM (IMEC VZW)<br>Patents By Year of Grant:   | 69          | 69           |
| KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY<br>Patents By Year of Grant:  | 69          | 69           |
| L'AIR LIQUIDE, SOCIETE ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L'ETUDE ET L'EXPLOITATION<br>DES PROCEDES GEORGES CLAUDE<br>Patents By Year of Grant: | 69          | 69           |
| TAKEDA PHARMACEUTICAL COMPANY LIMITED<br>Patents By Year of Grant:  | 69          | 69           |
| TOYOTA BOSHOKU KABUSHIKI KAISHA<br>Patents By Year of Grant:  | 69          | 69           |
| ALPHA AND OMEGA SEMICONDUCTOR INCORPORATED<br>Patents By Year of Grant:   | 68          | 68           |
| BECTON, DICKINSON AND COMPANY<br>Patents By Year of Grant:  | 68          | 68           |
| ESSILOR INTERNATIONAL COMPAGNIE GENERALE D'OPTIQUE<br>Patents By Year of Grant:   | 68          | 68           |
| GLAXO GROUP LIMITED<br>Patents By Year of Grant:  | 68          | 68           |
| INTEGRATED DEVICE TECHNOLOGY, INC.<br>Patents By Year of Grant:   | 68          | 68           |
| KAWASAKI JUKOGYO KABUSHIKI KAISHA<br>Patents By Year of Grant:  | 68          | 68           |
| KOMATSU LTD.<br>Patents By Year of Grant:   | 68          | 68           |
| LIFE TECHNOLOGIES CORPORATION<br>Patents By Year of Grant:  | 68          | 68           |
| MANN & HUMMEL GMBH<br>Patents By Year of Grant:   | 68          | 68           |
| NDK, NIHON DEMPY KOGYO COMPANY, LTD.<br>Patents By Year of Grant:   | 68          | 68           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| TERADATA US, INC.<br>Patents By Year of Grant:                                | 68          | 68           |
| UT-BATTELLE, LLC<br>Patents By Year of Grant:                                 | 68          | 68           |
| VESTAS WIND SYSTEMS A/S<br>Patents By Year of Grant:                          | 68          | 68           |
| AIRBUS OPERATIONS LIMITED<br>Patents By Year of Grant:                        | 67          | 67           |
| AVAGO TECHNOLOGIES ECBU IP (SINGAPORE) PTE. LTD.<br>Patents By Year of Grant: | 67          | 67           |
| CA, INC.<br>Patents By Year of Grant:   | 67          | 67           |
| ELI LILLY AND COMPANY<br>Patents By Year of Grant:                            | 67          | 67           |
| MICHELIN RECHERCHE ET TECHNIQUE S.A.<br>Patents By Year of Grant:             | 67          | 67           |
| ABB RESEARCH LTD.<br>Patents By Year of Grant:                                | 66          | 66           |
| AJINOMOTO COMPANY INCORPORATED<br>Patents By Year of Grant:                   | 66          | 66           |
| CARRIER CORPORATION<br>Patents By Year of Grant:                              | 66          | 66           |
| CSR TECHNOLOGY INC.<br>Patents By Year of Grant:                              | 66          | 66           |
| FUJI JUKOGYO KABUSHIKI KAISHA<br>Patents By Year of Grant:                    | 66          | 66           |
| HITACHI CHEMICAL COMPANY, LTD.<br>Patents By Year of Grant:                   | 66          | 66           |
| KOITO MANUFACTURING COMPANY LIMITED<br>Patents By Year of Grant:              | 66          | 66           |
| NOVELLUS SYSTEMS, INC.<br>Patents By Year of Grant:                           | 66          | 66           |
| SIEMENS AUDIOLOGISCHE TECHNIK GMBH<br>Patents By Year of Grant:               | 66          | 66           |
| STMICROELECTRONICS, INC.<br>Patents By Year of Grant:                         | 66          | 66           |
| ADVANCED SEMICONDUCTOR ENGINEERING, INC.<br>Patents By Year of Grant:         | 65          | 65           |
| CIENA CORPORATION<br>Patents By Year of Grant:                                | 65          | 65           |
| COOPER TECHNOLOGIES COMPANY<br>Patents By Year of Grant:                      | 65          | 65           |
| DOLBY LABORATORIES LICENSING CORPORATION<br>Patents By Year of Grant:         | 65          | 65           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| GENERAL MOTORS LLC<br>Patents By Year of Grant:                                | 64          | 64           |
| NOKIA SIEMENS NETWORKS GMBH & CO. KG<br>Patents By Year of Grant:              | 64          | 64           |
| RICHTEK TECHNOLOGY CORP.<br>Patents By Year of Grant:                          | 64          | 64           |
| FIH (HONG KONG) LIMITED<br>Patents By Year of Grant:                           | 63          | 63           |
| GLOBAL OLED TECHNOLOGY LLC<br>Patents By Year of Grant:                        | 63          | 63           |
| HITACHI CONSUMER ELECTRONICS CO., LTD.<br>Patents By Year of Grant:            | 63          | 63           |
| SYNTHESES (U.S.A.)<br>Patents By Year of Grant:                                | 63          | 63           |
| BATTELLE MEMORIAL INSTITUTE<br>Patents By Year of Grant:                       | 62          | 62           |
| BAYER MATERIALSCIENCE AG<br>Patents By Year of Grant:                          | 62          | 62           |
| BRITISH TELECOMMUNICATION, PLC<br>Patents By Year of Grant:                    | 62          | 62           |
| DEPUY SPINE, INC.<br>Patents By Year of Grant:                                 | 62          | 62           |
| INTEL MOBILE COMMUNICATIONS GMBH<br>Patents By Year of Grant:                  | 62          | 62           |
| MAKITA CORPORATION<br>Patents By Year of Grant:                                | 62          | 62           |
| PANDUIT CORPORATION<br>Patents By Year of Grant:                               | 62          | 62           |
| ROHM AND HAAS COMPANY<br>Patents By Year of Grant:                             | 62          | 62           |
| S.O.I. TEC SILICON ON INSULATOR TECHNOLOGIES S.A.<br>Patents By Year of Grant: | 62          | 62           |
| SUMITOMO RUBBER INDUSTRIES, LTD.<br>Patents By Year of Grant:                  | 62          | 62           |
| TARGET BRANDS, INC.<br>Patents By Year of Grant:                               | 62          | 62           |
| BAYER HEALTHCARE, LLC<br>Patents By Year of Grant:                             | 61          | 61           |
| COVIDIEN AG<br>Patents By Year of Grant:                                       | 61          | 61           |
| EPCOS AG<br>Patents By Year of Grant:  | 61          | 61           |
| FORD GLOBAL TECHNOLOGIES, INC.<br>Patents By Year of Grant:                    | 61          | 61           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| GILLETTE COMPANY   |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| INTERNATIONAL RECTIFIER CORPORATION                            |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| JOHN MEZZALINGUA ASSOCIATES, INC.                              |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| O2 MICRO, INC.   |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| PFIZER INC.  |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| PRIMAX ELECTRONICS LTD.  |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| SUNPLUS TECHNOLOGY CO., LTD.                                   |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| UNIVERSITY OF MARYLAND   |             |              |
| Patents By Year of Grant:                                      | 61          | 61           |
| APTINA IMAGING CORPORATION                                     |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| CELLCO PARTNERSHIP   |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| CENTURYLINK INTELLECTUAL PROPERTY LLC                          |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| CORNING CABLE SYSTEMS LLC                                      |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| DOW CORNING CORPORATION  |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| TREND MICRO, INC.  |             |              |
| Patents By Year of Grant:                                      | 60          | 60           |
| ALPINE ELECTRONICS INC.  |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |
| HILL-ROM SERVICES, INC.  |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |
| INTUITIVE SURGICAL OPERATIONS, INC.                            |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |
| KLA-TENCOR CORPORATION   |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |
| KONICA MINOLTA HOLDINGS, INC.                                  |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |
| NAN YA TECHNOLOGY CORPORATION                                  |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |
| QUANTA COMPUTER INC.   |             |              |
| Patents By Year of Grant:                                      | 59          | 59           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| SONY MOBILE COMMUNICATIONS AB<br>Patents By Year of Grant:                        | 59          | 59           |
| VETCO GRAY INC<br>Patents By Year of Grant:                                       | 59          | 59           |
| GENERAL INSTRUMENT CORPORATION<br>Patents By Year of Grant:                       | 58          | 58           |
| GOODYEAR TIRE + RUBBER COMPANY<br>Patents By Year of Grant:                       | 58          | 58           |
| MEDTRONIC VASCULAR, INC<br>Patents By Year of Grant:                              | 58          | 58           |
| NIDEC CORPORATION<br>Patents By Year of Grant:                                    | 58          | 58           |
| NIPPON TELEGRAPH & TELEPHONE CORP.<br>Patents By Year of Grant:                   | 58          | 58           |
| NOVELL, INC.<br>Patents By Year of Grant:   | 58          | 58           |
| SAMSUNG LED CO., LTD.<br>Patents By Year of Grant:                                | 58          | 58           |
| ST. JUDE MEDICAL, ATRIAL FIBRILLATION DIVISION, INC.<br>Patents By Year of Grant: | 58          | 58           |
| TELECOMMUNICATION SYSTEMS, INC.<br>Patents By Year of Grant:                      | 58          | 58           |
| WEATHERFORD/LAMB, INC.<br>Patents By Year of Grant:                               | 58          | 58           |
| ZAMTEC LIMITED<br>Patents By Year of Grant:                                       | 58          | 58           |
| AIRBUS DEUTSCHLAND GMBH<br>Patents By Year of Grant:                              | 57          | 57           |
| BAYERISCHE MOTOREN WERKE AG<br>Patents By Year of Grant:                          | 57          | 57           |
| COVIDIEN LP<br>Patents By Year of Grant:  | 57          | 57           |
| KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS<br>Patents By Year of Grant:       | 57          | 57           |
| NLT TECHNOLOGIES, LTD.<br>Patents By Year of Grant:                               | 57          | 57           |
| NOVOZYMES A/S<br>Patents By Year of Grant:  | 57          | 57           |
| SYNGENTA PARTICIPATIONS AG<br>Patents By Year of Grant:                           | 57          | 57           |
| TOSHIBA TEC KABUSHIKI KAISHA<br>Patents By Year of Grant:                         | 57          | 57           |
| ADVANCED NEUROMODULATION SYSTEMS, INC.<br>Patents By Year of Grant:               | 56          | 56           |

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| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| DIEBOLD SELF SERVICE SYSTEMS, A DIVISION OF DIEBOLD, INCORPORATED |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| EMBARQ HOLDINGS COMPANY LLC                                       |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| FUJITSU COMPONENT LIMITED   |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| MITUTOYO CORPORATION  |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| SAUDI ARABIAN OIL COMPANY   |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| SCHERING CORP.  |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| THE NIELSEN COMPANY (U.S.), L.L.C.                                |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| THERAVANCE, INC.  |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| VICTOR COMPANY OF JAPAN, LIMITED                                  |             |              |
| Patents By Year of Grant:   | 56          | 56           |
| BASF CORPORATION  |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| COMMVAULT SYSTEMS, INC.   |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| DONNELLY CORPORATION  |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| OLYMPUS IMAGING CORP.   |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| QIMONDA AG  |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| SCHNEIDER ELECTRIC USA, INC.                                      |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| STRYKER CORPORATION   |             |              |
| Patents By Year of Grant:   | 55          | 55           |
| BIOMET MANUFACTURING CORP.  |             |              |
| Patents By Year of Grant:   | 54          | 54           |
| NORTHROP GRUMMAN SYSTEMS CORPORATION                              |             |              |
| Patents By Year of Grant:   | 54          | 54           |
| PARKER-HANNIFIN CORPORATION                                       |             |              |
| Patents By Year of Grant:   | 54          | 54           |
| PIXART IMAGING INC.   |             |              |
| Patents By Year of Grant:   | 54          | 54           |
| SEMICONDUCTOR MANUFACTURING INTERNATIONAL (SHANGHAI) CORPORATION  |             |              |
| Patents By Year of Grant:   | 54          | 54           |
| SYMANTEC OPERATING CORPORATION                                    |             |              |
| Patents By Year of Grant:   | 54          | 54           |



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Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| TELA INNOVATIONS, INC.<br>Patents By Year of Grant:   | 54          | 54           |
| UNIVERSITY OF MASSACHUSETTS<br>Patents By Year of Grant:                                    | 54          | 54           |
| ANDREW CORPORATION<br>Patents By Year of Grant:   | 53          | 53           |
| GIESECKE & DEVRIENT GMBH<br>Patents By Year of Grant:                                       | 53          | 53           |
| KCI LICENSING, INC.<br>Patents By Year of Grant:  | 53          | 53           |
| S. C. JOHNSON + SON, INC.<br>Patents By Year of Grant:                                      | 53          | 53           |
| ULVAC, INC.<br>Patents By Year of Grant:  | 53          | 53           |
| UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE<br>Patents By Year of Grant:            | 53          | 53           |
| WACKER-CHEMIE GMBH<br>Patents By Year of Grant:   | 53          | 53           |
| WEST CORPORATION<br>Patents By Year of Grant:   | 53          | 53           |
| ALTEK CORPORATION<br>Patents By Year of Grant:  | 52          | 52           |
| ARKEMA FRANCE<br>Patents By Year of Grant:  | 52          | 52           |
| FUJITSU TOSHIBA MOBILE COMMUNICATIONS LIMITED<br>Patents By Year of Grant:                  | 52          | 52           |
| HARVARD COLLEGE, PRESIDENT AND FELLOWS<br>Patents By Year of Grant:                         | 52          | 52           |
| KABUSHIKI KAISHA TOYOTA JIDOSHOKKI<br>Patents By Year of Grant:                             | 52          | 52           |
| KYPHON SARL<br>Patents By Year of Grant:  | 52          | 52           |
| MAZDA MOTOR CORPORATION<br>Patents By Year of Grant:  | 52          | 52           |
| MEDTRONIC MINIMED INC.<br>Patents By Year of Grant:   | 52          | 52           |
| MITSUMI ELECTRIC CO., LTD.<br>Patents By Year of Grant:                                     | 52          | 52           |
| ROLLS-ROYCE DEUTSCHLAND LTD & CO KG<br>Patents By Year of Grant:                            | 52          | 52           |
| SUNGKYUNKWAN UNIVERSITY FOUNDATION FOR CORPORATE COLLABORATION<br>Patents By Year of Grant: | 52          | 52           |
| TOYO TIRE & RUBBER CO., LTD.<br>Patents By Year of Grant:                                   | 52          | 52           |

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 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| UNITED STATES OF AMERICA, AIR FORCE<br>Patents By Year of Grant:   | 52          | 52           |
| APPLIED MICRO CIRCUITS CORPORATION<br>Patents By Year of Grant:  | 51          | 51           |
| BORGWARNER INC.<br>Patents By Year of Grant:   | 51          | 51           |
| BRIDGESTONE SPORTS CO., LTD.<br>Patents By Year of Grant:  | 51          | 51           |
| EASTMAN CHEMICAL COMPANY<br>Patents By Year of Grant:  | 51          | 51           |
| GUARDIAN INDUSTRIES CORP.<br>Patents By Year of Grant:   | 51          | 51           |
| HITACHI CONSTRUCTION MACHINERY CO., LTD.<br>Patents By Year of Grant:                                    | 51          | 51           |
| MENTOR GRAPHICS CORPORATION<br>Patents By Year of Grant:   | 51          | 51           |
| NORDSON CORPORATION<br>Patents By Year of Grant:   | 51          | 51           |
| RISO KAGAKU CORPORATION<br>Patents By Year of Grant:   | 51          | 51           |
| SONY COMPUTER ENTERTAINMENT AMERICA INC.<br>Patents By Year of Grant:                                    | 51          | 51           |
| SUMITOMO METAL INDUSTRIES CO., LTD.<br>Patents By Year of Grant:   | 51          | 51           |
| TRIMBLE NAVIGATION, LTD.<br>Patents By Year of Grant:  | 51          | 51           |
| AMKOR TECHNOLOGY, INC.<br>Patents By Year of Grant:  | 50          | 50           |
| INSTITUTE OF NUCLEAR ENERGY RESEARCH, CHINESE ATOMIC ENERGY COUNCIL, TAIWAN<br>Patents By Year of Grant: | 50          | 50           |
| KRAFT FOODS GLOBAL BRANDS LLC<br>Patents By Year of Grant:   | 50          | 50           |
| SANKEN ELECTRIC COMPANY LIMITED<br>Patents By Year of Grant:   | 50          | 50           |
| SANOFI, S.A.<br>Patents By Year of Grant:  | 50          | 50           |
| SANOFI-AVENTIS<br>Patents By Year of Grant:  | 50          | 50           |
| SRI INTERNATIONAL<br>Patents By Year of Grant:   | 50          | 50           |
| SYSMEX CORPORATION<br>Patents By Year of Grant:  | 50          | 50           |
| VOITH PAPER PATENT GMBH<br>Patents By Year of Grant:   | 50          | 50           |

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 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| WI-LAN INC.<br>Patents By Year of Grant:  | 50          | 50           |
| AVERY DENNISON CORPORATION<br>Patents By Year of Grant:                         | 49          | 49           |
| BYD COMPANY LIMITED<br>Patents By Year of Grant:                                | 49          | 49           |
| ECHOSTAR TECHNOLOGIES L.L.C.<br>Patents By Year of Grant:                       | 49          | 49           |
| GRAPHIC PACKAGING INTERNATIONAL, INC.<br>Patents By Year of Grant:              | 49          | 49           |
| HAND-HELD PRODUCTS, INC.<br>Patents By Year of Grant:                           | 49          | 49           |
| HITACHI MEDICAL CORPORATION<br>Patents By Year of Grant:                        | 49          | 49           |
| SALESFORCE.COM, INC.<br>Patents By Year of Grant:                               | 49          | 49           |
| SCA HYGIENE PRODUCTS AB<br>Patents By Year of Grant:                            | 49          | 49           |
| SMS SIEMAG AKTIENGESELLSCHAFT<br>Patents By Year of Grant:                      | 49          | 49           |
| CAMBRIDGE SILICON RADIO LIMITED<br>Patents By Year of Grant:                    | 48          | 48           |
| CUMMINS FILTRATION IP, INC.<br>Patents By Year of Grant:                        | 48          | 48           |
| DANISCO US INC<br>Patents By Year of Grant:                                     | 48          | 48           |
| EXELIS INC.<br>Patents By Year of Grant:  | 48          | 48           |
| GLOBALFOUNDRIES SINGAPORE PTE. LTD.<br>Patents By Year of Grant:                | 48          | 48           |
| GREATBATCH LTD.<br>Patents By Year of Grant:                                    | 48          | 48           |
| MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH<br>Patents By Year of Grant: | 48          | 48           |
| SCHOTT AG<br>Patents By Year of Grant:  | 48          | 48           |
| SHIMANO INC.<br>Patents By Year of Grant:                                       | 48          | 48           |
| SRI SPORTS LIMITED<br>Patents By Year of Grant:                                 | 48          | 48           |
| THE DIRECTV GROUP, INC.<br>Patents By Year of Grant:                            | 48          | 48           |
| TIME WARNER CABLE, INC.<br>Patents By Year of Grant:                            | 48          | 48           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| TOPPAN PRINTING CO., LTD.<br>Patents By Year of Grant:                       | 48          | 48           |
| VARIAN SEMICONDUCTOR EQUIPMENT ASSOCIATES, INC.<br>Patents By Year of Grant: | 48          | 48           |
| BAUSCH & LOMB, INC.<br>Patents By Year of Grant:                             | 47          | 47           |
| CLEARWIRE IP HOLDINGS, LLC<br>Patents By Year of Grant:                      | 47          | 47           |
| ETHICON, INC.<br>Patents By Year of Grant:                                   | 47          | 47           |
| INFINERA CORPORATION<br>Patents By Year of Grant:                            | 47          | 47           |
| KABUSHIKI KAISHA YASKAWA DENKI<br>Patents By Year of Grant:                  | 47          | 47           |
| KURARAY CO., LTD.<br>Patents By Year of Grant:                               | 47          | 47           |
| LS INDUSTRIAL SYSTEMS CO., LTD.<br>Patents By Year of Grant:                 | 47          | 47           |
| MALLINCKRODT, INC.<br>Patents By Year of Grant:                              | 47          | 47           |
| mitsubishi materials CORPORATION<br>Patents By Year of Grant:                | 47          | 47           |
| OTIS ELEVATOR COMPANY<br>Patents By Year of Grant:                           | 47          | 47           |
| PENTAX RICOH IMAGING COMPANY, LTD.<br>Patents By Year of Grant:              | 47          | 47           |
| PRAXAIR TECHNOLOGY, INC.<br>Patents By Year of Grant:                        | 47          | 47           |
| RENAULT S.A.S.<br>Patents By Year of Grant:                                  | 47          | 47           |
| SAINT-GOBAIN GLASS FRANCE<br>Patents By Year of Grant:                       | 47          | 47           |
| SEOUL OPTO DEVICE CO., LTD.<br>Patents By Year of Grant:                     | 47          | 47           |
| SMITH INTERNATIONAL INC.<br>Patents By Year of Grant:                        | 47          | 47           |
| TEKTRONIX INC.<br>Patents By Year of Grant:                                  | 47          | 47           |
| WYETH<br>Patents By Year of Grant:   | 47          | 47           |
| APPLIED BIOSYSTEMS, LLC.<br>Patents By Year of Grant:                        | 46          | 46           |
| ASAHI KASEI CHEMICALS CORPORATION<br>Patents By Year of Grant:               | 46          | 46           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| AUTOLIV DEVELOPMENT AB<br>Patents By Year of Grant:   | 46          | 46           |
| CANON ANELVA CORPORATION<br>Patents By Year of Grant:   | 46          | 46           |
| CFPH, L.L.C.<br>Patents By Year of Grant:   | 46          | 46           |
| COLGATE-PALMOLIVE COMPANY<br>Patents By Year of Grant:  | 46          | 46           |
| COLOPLAST A/S<br>Patents By Year of Grant:  | 46          | 46           |
| DONALDSON COMPANY, INC.<br>Patents By Year of Grant:  | 46          | 46           |
| FACEBOOK, INC.<br>Patents By Year of Grant:   | 46          | 46           |
| HEIDELBERGER DRUCKMASCHINEN AG<br>Patents By Year of Grant:                                       | 46          | 46           |
| HONG KONG APPLIED SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE CO. LTD.<br>Patents By Year of Grant: | 46          | 46           |
| IHI CORP.<br>Patents By Year of Grant:  | 46          | 46           |
| JATCO LTD.<br>Patents By Year of Grant:   | 46          | 46           |
| KYOCERA DOCUMENT SOLUTIONS INC.<br>Patents By Year of Grant:                                      | 46          | 46           |
| LARGAN PRECISION CO., LTD.<br>Patents By Year of Grant:   | 46          | 46           |
| NALCO COMPANY<br>Patents By Year of Grant:  | 46          | 46           |
| NEW YORK UNIVERSITY<br>Patents By Year of Grant:  | 46          | 46           |
| PHILIP MORRIS USA INC.<br>Patents By Year of Grant:   | 46          | 46           |
| PHISON ELECTRONIC CORP.<br>Patents By Year of Grant:  | 46          | 46           |
| RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK<br>Patents By Year of Grant:                  | 46          | 46           |
| SILITEK ELECTRONIC (GUANGZHOU) CO.,LTD.<br>Patents By Year of Grant:                              | 46          | 46           |
| ALPS ELECTRIC CO., LTD.<br>Patents By Year of Grant:  | 45          | 45           |
| AUTODESK, INC.<br>Patents By Year of Grant:   | 45          | 45           |
| CALLAWAY GOLF COMPANY<br>Patents By Year of Grant:  | 45          | 45           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| COMPUTER ASSOCIATES THINK, INC.<br>Patents By Year of Grant:       | 45          | 45           |
| INTERMOLECULAR INC.<br>Patents By Year of Grant:                   | 45          | 45           |
| INVENTEC CORPORATION<br>Patents By Year of Grant:                  | 45          | 45           |
| KANEKA CORPORATION<br>Patents By Year of Grant:                    | 45          | 45           |
| MITSUBISHI CHEMICAL CORPORATION<br>Patents By Year of Grant:       | 45          | 45           |
| NISSAN NORTH AMERICA, INC.<br>Patents By Year of Grant:            | 45          | 45           |
| SANOFI-AVENTIS DEUTSCHLAND GMBH<br>Patents By Year of Grant:       | 45          | 45           |
| SONY DEUTSCHLAND GMBH<br>Patents By Year of Grant:                 | 45          | 45           |
| WESTERNGECO, LLC<br>Patents By Year of Grant:                      | 45          | 45           |
| ZYNGA, INC.<br>Patents By Year of Grant:                           | 45          | 45           |
| ABL IP HOLDING LLC<br>Patents By Year of Grant:                    | 44          | 44           |
| AMERICAN POWER CONVERSION CORPORATION<br>Patents By Year of Grant: | 44          | 44           |
| CHICAGO MERCANTILE EXCHANGE, INC.<br>Patents By Year of Grant:     | 44          | 44           |
| DEXCOM, INC.<br>Patents By Year of Grant:                          | 44          | 44           |
| ISIS PHARMACEUTICALS, INC.<br>Patents By Year of Grant:            | 44          | 44           |
| MANDO CORPORATION<br>Patents By Year of Grant:                     | 44          | 44           |
| SHISEIDO CO., LTD.<br>Patents By Year of Grant:                    | 44          | 44           |
| SILICON MOTION, INC.<br>Patents By Year of Grant:                  | 44          | 44           |
| TAIYO YUDEN CO., LTD.<br>Patents By Year of Grant:                 | 44          | 44           |
| UNIMICRON TECHNOLOGY CORP.<br>Patents By Year of Grant:            | 44          | 44           |
| VISA U.S.A., INC.<br>Patents By Year of Grant:                     | 44          | 44           |
| ADVICS CO., LTD.<br>Patents By Year of Grant:                      | 43          | 43           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>   | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| ALCON RESEARCH, LTD.<br>Patents By Year of Grant:                             | 43          | 43           |
| BEIJING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD.<br>Patents By Year of Grant: | 43          | 43           |
| ERICSSON AB<br>Patents By Year of Grant:                                      | 43          | 43           |
| GILEAD SCIENCES, INC.<br>Patents By Year of Grant:                            | 43          | 43           |
| HARTFORD FIRE INSURANCE COMPANY<br>Patents By Year of Grant:                  | 43          | 43           |
| HITACHI-LG DATA STORAGE, INC.<br>Patents By Year of Grant:                    | 43          | 43           |
| IFP ENERGIES NOUVELLES<br>Patents By Year of Grant:                           | 43          | 43           |
| INSTITUTE FOR INFORMATION INDUSTRY<br>Patents By Year of Grant:               | 43          | 43           |
| MARVELL ISRAEL (MISL) LTD.<br>Patents By Year of Grant:                       | 43          | 43           |
| mitsubishi gas-chemical company, inc.<br>Patents By Year of Grant:            | 43          | 43           |
| SIEMENS ENTERPRISE COMMUNICATIONS GMBH & CO. KG<br>Patents By Year of Grant:  | 43          | 43           |
| UNIVERSITY OF PITTSBURGH<br>Patents By Year of Grant:                         | 43          | 43           |
| ARRIS GROUP, INC.<br>Patents By Year of Grant:                                | 42          | 42           |
| HARMAN INTERNATIONAL INDUSTRIES, INC.<br>Patents By Year of Grant:            | 42          | 42           |
| HUBBELL INCORPORATED<br>Patents By Year of Grant:                             | 42          | 42           |
| JX NIPPON MINING & METALS CORPORATION<br>Patents By Year of Grant:            | 42          | 42           |
| MAHLE INTERNATIONAL GMBH<br>Patents By Year of Grant:                         | 42          | 42           |
| PANASONIC ELECTRIC WORKS CO., LTD.<br>Patents By Year of Grant:               | 42          | 42           |
| PURDUE RESEARCH FOUNDATION<br>Patents By Year of Grant:                       | 42          | 42           |
| SANDVIK INTELLECTUAL PROPERTY AB<br>Patents By Year of Grant:                 | 42          | 42           |
| SEMINIS VEGETABLE SEEDS, INC.<br>Patents By Year of Grant:                    | 42          | 42           |
| SEOUL SEMICONDUCTOR CO., LTD.<br>Patents By Year of Grant:                    | 42          | 42           |

Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
 Ranked List of Organizations with 40 or More Utility Patents Received in CY2012

| <u>ORGANIZATION</u>                               | <u>2012</u> | <u>TOTAL</u> |
|---|-------------|--------------|
| SUZUKI MOTOR CORPORATION                          |             |              |
| Patents By Year of Grant:                         | 42          | 42           |
| VODAFONE GROUP PLC                                |             |              |
| Patents By Year of Grant:                         | 42          | 42           |
| AUDI AG   |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| COCHLEAR LIMITED                                  |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| DUKE UNIVERSITY                                   |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| EBARA CORPORATION                                 |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| JNC CORPORATION                                   |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| LAPIS SEMICONDUCTOR CO., LTD.                     |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| LOS ALAMOS NATIONAL SECURITY, LLC                 |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| MASTERCARD INTERNATIONAL, INC.                    |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| NEXTEL COMMUNICATIONS, INC.                       |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO. LTD. |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| SPX CORPORATION                                   |             |              |
| Patents By Year of Grant:                         | 41          | 41           |
| BRIDGELUX, INC                                    |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| FU TAI HUA INDUSTRY (SHENZHEN) CO., LTD.          |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| GOLDMAN, SACHS & CO.                              |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| JSR CORPORATION                                   |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| KUBOTA CORPORATION                                |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| LUTRON ELECTRONICS COMPANY, INC.                  |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| ROCHE PALO ALTO LLC                               |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| SECOND SIGHT MEDICAL PRODUCTS, INC.               |             |              |
| Patents By Year of Grant:                         | 40          | 40           |
| SYNGENTA CROP PROTECTION, INC.                    |             |              |
| Patents By Year of Grant:                         | 40          | 40           |



Organizational Patenting (Granted: Jan 01, 2012 - Dec 31, 2012)  
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| <u>ORGANIZATION</u>  | <u>2012</u> | <u>TOTAL</u> |
|--|-------------|--------------|
| THE CLEVELAND CLINIC FOUNDATION<br>Patents By Year of Grant: | 40          | 40           |
| TK HOLDINGS, INC.<br>Patents By Year of Grant:               | 40          | 40           |
| VARIAN MEDICAL SYSTEMS, INC.<br>Patents By Year of Grant:    | 40          | 40           |
| ZIMMER SPINE, INC.<br>Patents By Year of Grant:              | 40          | 40           |
| Other Organizations (32586)<br>Patents By Year of Grant:     | 89570       | 89570        |