PATENTING BY ORGANIZATIONS 2002



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A PTMD TAF DATABASE REPORT

Patenting By Organizations 2002

This report, prepared from the Technology Assessment and Forecast (TAF) database, profiles utility patents (i.e., patents for inventions) granted during **calendar year 2002**.

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.

Please note:

Counts for "Hewlett-Packard Company", "Compaq Computer Corporation, Inc.", and "Compaq Information Technologies Group, L.P." were combined together under a single identifier for the report, "Preliminary List of Top Patenting Organizations, Calendar Year 2002." In this report, however, counts for these organizational identifiers are listed separately.

Patenting By The U.S. Government 2002

In calendar year 2002, the U.S. Government received 907 utility patents.

Under the section labeled "Ownership", **Part A1** presents the total count of patents received by the U.S. Government during the calendar year. Each of the separate U.S. Government agencies receiving 40 or more 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, 2002 - Dec 31, 2002)

COUNTRY OF ORIGIN	2002	<u>Total</u>
Total	167334	167334
U.S. Origin	86977	86977
Foreign Origin	80357	80357
JAPAN	34859	34859
GERMANY	11277	11277
TAIWAN	5431	5431
FRANCE	4035	4035
UNITED KINGDOM	3838	3838
SOUTH KOREA	3786	3786
CANADA	3431	3431
ITALY	1750	1750
SWEDEN	1675	1675
NETHERLANDS	1391	1391
SWITZERLAND	1364	1364
ISRAEL	1040	1040
AUSTRALIA	858	858
FINLAND	809	809
BELGIUM	722	722
AUSTRIA	530	530
DENMARK	426	426
SINGAPORE	410	410
SPAIN	303	303
CHINA P.REP.	289	289
INDIA	249	249
NORWAY	242	242
CHINA, HONG KONG S.A.R	233	233
RUSSIAN FEDERATION	200	200
NEW ZEALAND	140	140
IRELAND	132	132
SOUTH AFRICA	114	114
BRAZIL	96	96
MEXICO	94	94
MALAYSIA	55	55
ARGENTINA	54	54
HUNGARY	48	48
THAILAND	44	44
LUXEMBOURG	37	37
VENEZUELA	30	30
CZECH REPUBLIC	29	29
Others (68)	336	336
, ,		
Ownership:		
U.S. Corporations	74162	74162
U.S. Government	907	907
U.S. Individuals	14115	14115
Foreign Corporations	71663	71663
Foreign Government	112	112
Foreign Individuals	6375	6375

Percent of Utility Patents Granted By Year Of Patent Grant (Granted: Jan 01, 2002 - Dec 31, 2002)

COUNTRY OF ORIGIN	2002	Total
Total	100	100
U.S. Origin	52	52
Foreign Origin	48	48
JAPAN	21	21
GERMANY	7	7
TAIWAN	3	3
FRANCE	2	2
UNITED KINGDOM	2	2
SOUTH KOREA	2	2
CANADA	2	2
ITALY	1	1
SWEDEN	1	1
NETHERLANDS	1	1
SWITZERLAND	1	1
ISRAEL	1	1
AUSTRALIA	1	1
FINLAND		0
BELGIUM		0
AUSTRIA		0
DENMARK		0
SINGAPORE		0
SPAIN		0
CHINA P.REP.		0
INDIA		0
NORWAY		0
CHINA, HONG KONG S.A.R		0
RUSSIAN FEDERATION		0
NEW ZEALAND		0
IRELAND		0
SOUTH AFRICA		0
BRAZIL		0
MEXICO		0
MALAYSIA		0
ARGENTINA		0
HUNGARY		0
THAILAND LUXEMBOURG		0 0
VENEZUELA		0
CZECH REPUBLIC		0
Others (68)		0
Others (66)		U
Ownership:		
U.S. Corporations	44	44
U.S. Government	1	1
U.S. Individuals	8	8
Foreign Corporations	43	43
Foreign Government	_	0
Foreign Individuals	4	4

Part B1

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

ORGANIZATION 2002 T	OTAL	
INTERNATIONAL BUSINESS MACHINES CORPORAT Patents By Year of Grant: 3	ION 288	3288
CANON KABUSHIKI KAISHA Patents By Year of Grant: 1	893	1893
MICRON TECHNOLOGY, INC. Patents By Year of Grant: 1	833	1833
NEC CORPORATION Patents By Year of Grant: 1	821	1821
HITACHI, LTD Patents By Year of Grant: 1	601	1601
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. Patents By Year of Grant: 1	544	1544
SONY CORPORATION Patents By Year of Grant: 1	434	1434
GENERAL ELECTRIC COMPANY Patents By Year of Grant: 1	416	1416
MITSUBISHI DENKI KABUSHIKI KAISHA Patents By Year of Grant: 1	.373	1373
SAMSUNG ELECTRONICS CO., LTD. Patents By Year of Grant: 1	328	1328
FUJITSU LIMITED Patents By Year of Grant: 1	211	1211
ADVANCED MICRO DEVICES, INC. Patents By Year of Grant: 1	154	1154
TOSHIBA CORPORATION Patents By Year of Grant: 1	130	1130
INTEL CORPORATION Patents By Year of Grant: 1	.077	1077
HEWLETT-PACKARD COMPANY Patents By Year of Grant: 1	061	1061
KONINKLIJKE PHILIPS ELECTRONICS N.V. Patents By Year of Grant:	842	842
TEXAS INSTRUMENTS, INCORPORATED Patents By Year of Grant:	717	717
MOTOROLA, INC. Patents By Year of Grant:	712	712
EASTMAN KODAK COMPANY Patents By Year of Grant:	694	694
XEROX CORPORATION Patents By Year of Grant:	693	693
FUJI PHOTO FILM CO., LTD Patents By Year of Grant:	687	687
ROBERT BOSCH GMBH Patents By Year of Grant:	679	679

ORGANIZATION	2002	TOTAL	
SIEMENS AKTIENGESELLSCHAFT Patents By Year of Grant:		674	674
LUCENT TECHNOLOGIES INC. Patents By Year of Grant:		662	662
HONDA GIKEN KOGYO KABUSHIKI KAIS Patents By Year of Grant:	на (но	NDA MOTOR 653	
DELPHI TECHNOLOGIES, INC. Patents By Year of Grant:		640	640
SEIKO EPSON CORPORATION Patents By Year of Grant:		618	618
SHARP KABUSHIKI KAISHA (SHARP CO Patents By Year of Grant:	RPORAT		534
3M INNOVATIVE PROPERTIES COMPANY Patents By Year of Grant:		529	529
TELEFONAKTIEBOLAGET LM ERICSSON Patents By Year of Grant:		510	510
APPLIED MATERIALS, INC. Patents By Year of Grant:		503	503
SUN MICROSYSTEMS, INC. Patents By Year of Grant:		502	502
MICROSOFT CORPORATION Patents By Year of Grant:		499	499
DENSO CORPORATION Patents By Year of Grant:		482	482
BASF AKTIENGESELLSCHAFT Patents By Year of Grant:		473	473
INFINEON TECHNOLOGIES AG Patents By Year of Grant:		451	451
TAIWAN SEMICONDUCTOR MANUFACTURE Patents By Year of Grant:	NG CO.	447	447
MURATA MANUFACTURING CO., LTD. Patents By Year of Grant:		444	444
PROCTER + GAMBLE COMPANY Patents By Year of Grant:		433	433
UNIVERSITY OF CALIFORNIA, THE RE Patents By Year of Grant:	GENTS	OF 430	430
NORTEL NETWORKS CORPORATION Patents By Year of Grant:		413	413
BAYER AKTIENGESELLSCHAFT Patents By Year of Grant:		398	398
HON HAI PRECISION IND. CO., LTD. Patents By Year of Grant:		392	392
HYUNDAI ELECTRONICS INDUSTRIES C Patents By Year of Grant:	O., LI	D. 391	391

ORGANIZATION	2002	TOTAL	
FORD GLOBAL TECHNOLOGIES, INC. Patents By Year of Grant:		389	389
UNITED STATES OF AMERICA, NAVY Patents By Year of Grant:		378	378
SANYO ELECTRIC CO., LTD. Patents By Year of Grant:		367	367
AGERE SYSTEMS GUARDIAN CORP. Patents By Year of Grant:		350	350
HONEYWELL INTERNATIONAL INC. Patents By Year of Grant:		342	342
LG ELECTRONICS INC. Patents By Year of Grant:		340	340
RICOH COMPANY, LTD. Patents By Year of Grant:		326	326
OKI ELECTRIC INDUSTRY CO., LTD. Patents By Year of Grant:		324	324
SEAGATE TECHNOLOGY, LLC Patents By Year of Grant:		323	323
AGILENT TECHNOLOGIES, INC. Patents By Year of Grant:		312	312
E. I. DU PONT DE NEMOURS AND COM Patents By Year of Grant:	IPANY	312	312
YAZAKI CORP. Patents By Year of Grant:		311	311
LSI LOGIC CORPORATION Patents By Year of Grant:		308	308
DAIMLER-CHRYSLER AKTIENGESELLSCH Patents By Year of Grant:	IAFT	304	304
TOYOTA JIDOSHA K.K. Patents By Year of Grant:		296	296
AT&T CORP. Patents By Year of Grant:		284	284
L'OREAL S.A. Patents By Year of Grant:		280	280
ALCATEL Patents By Year of Grant:		277	277
UNITED MICROELECTRONICS CORPORAT Patents By Year of Grant:	'ION	277	277
STMICROELECTRONICS S.R.L. Patents By Year of Grant:		265	265
OLYMPUS OPTICAL CO., LTD. Patents By Year of Grant:		260	260
TDK CORPORATION Patents By Year of Grant:		258	258

ORGANIZATION	2002	TOTAL	
U.S. PHILIPS CORPORATION Patents By Year of Grant:		253	253
ERICSSON, INC. Patents By Year of Grant:		251	251
NISSAN MOTOR COMPANY, LIMITED Patents By Year of Grant:		249	249
CORNING INCORPORATED Patents By Year of Grant:		247	247
KIMBERLY-CLARK WORLDWIDE, INC. Patents By Year of Grant:		247	247
ASAHI KOGAKU KOGYO KABUSHIKI KA Patents By Year of Grant:	ISHA	246	246
CATERPILLAR INC. Patents By Year of Grant:		246	246
SEMICONDUCTOR ENERGY LABORATORY Patents By Year of Grant:	CO., L	TD. 246	246
NIKON CORPORATION Patents By Year of Grant:		245	245
MINOLTA CAMERA CO., LTD. Patents By Year of Grant:		240	240
TOKYO ELECTRON LIMITED Patents By Year of Grant:		237	237
TRW INC. Patents By Year of Grant:		227	227
CISCO TECHNOLOGY, INC. Patents By Year of Grant:		223	223
SCI-MED LIFE SYSTEMS, INC. Patents By Year of Grant:		221	221
INDUSTRIAL TECHNOLOGY RESEARCH : Patents By Year of Grant:	INSTITU	TE, TAIW 217	
ALPS ELECTRIC CO., LTD. Patents By Year of Grant:		210	210
NATIONAL SEMICONDUCTOR CORPORAT Patents By Year of Grant:	ION	208	208
NOKIA MOBILE PHONES LTD. Patents By Year of Grant:		207	207
SMITHKLINE BEECHAM CORPORATION Patents By Year of Grant:		206	206
BOEING COMPANY Patents By Year of Grant:		199	199
QUALCOMM, INC. Patents By Year of Grant:		196	196
GOODYEAR TIRE + RUBBER COMPANY Patents By Year of Grant:		192	192

ORGANIZATION 200	2 TOTAL	
LOCKHEED MARTIN CORPORATION Patents By Year of Grant:	192	192
GENERAL MOTORS CORPORATION Patents By Year of Grant:	190	190
SUMITOMO WIRING SYSTEMS, LTD., CO. Patents By Year of Grant:	190	190
3COM CORPORATION Patents By Year of Grant:	188	188
PFIZER INC. Patents By Year of Grant:	187	187
SUMITOMO CHEMICAL COMPANY, LIMITED Patents By Year of Grant:	187	187
VISTEON GLOBAL TECHNOLOGIES, INC. Patents By Year of Grant:	185	185
SEIKO INSTRUMENTS INC. Patents By Year of Grant:	183	183
FUJI XEROX CO., LTD. Patents By Year of Grant:	182	182
KONICA CORPORATION Patents By Year of Grant:	177	177
SCHLUMBERGER TECHNOLOGY CORPORATION Patents By Year of Grant:		177
MERCK + CO., INC. Patents By Year of Grant:	174	174
GE MEDICAL SYSTEMS GLOBAL TECHNOLOGY Patents By Year of Grant:	-	LLC 173
MEDTRONIC INC. Patents By Year of Grant:	171	171
SUMITOMO ELECTRIC INDUSTRIES CO., LT Patents By Year of Grant:		170
HALLIBURTON ENERGY SEVICES, INC. Patents By Year of Grant:	167	167
COMPAQ INFORMATION TECHNOLOGIES GROUP Patents By Year of Grant:	P, L.P. 165	165
NCR CORPORATION Patents By Year of Grant:	161	161
NGK INSULATORS LTD. Patents By Year of Grant:	161	161
COMPAQ COMPUTER CORPORATION, INC. Patents By Year of Grant:	159	159
HEIDELBERGER DRUCKMASCHINEN AG Patents By Year of Grant:	157	157
RAYTHEON COMPANY Patents By Year of Grant:	157	157

ORGANIZATION	2002 <u>TOTAL</u>	
EATON CORPORATION Patents By Year of Grant:	156 156	
ROHM COMPANY LIMITED Patents By Year of Grant:	150 150	
LG. PHILIPS LCD CO., LTD. Patents By Year of Grant:	149 149	
UNILEVER HOME & PERSONAL CARE US Patents By Year of Grant:	A, DIVISION OF CONO 149 149	
HUGHES ELECTRONICS CORP. Patents By Year of Grant:	147 147	
ILLINOIS TOOL WORKS INC. Patents By Year of Grant:	147 147	
HYUNDAI MOTOR CO., LTD. Patents By Year of Grant:	145 145	
UNITED STATES OF AMERICA, ARMY Patents By Year of Grant:	145 145	
XILINX, INC. Patents By Year of Grant:	145 145	
CHARTERED SEMICONDUCTOR MANUFACT Patents By Year of Grant:	URING PTE LTD 142 142	
CIBA SPECIALTY CHEMICALS CORPORA Patents By Year of Grant:	TION 142 142	
STMICROELECTRONICS S.A. Patents By Year of Grant:	139 139	
BAKER HUGHES INCORPORATED Patents By Year of Grant:	138 138	
CONEXANT SYSTEMS, INC. Patents By Year of Grant:	138 138	
MITSUBISHI HEAVY INDUSTRIES CO., Patents By Year of Grant:	LTD. 138 138	
BRIDGESTONE CORPORATION Patents By Year of Grant:	137 137	
THOMSON LICENSING S.A. Patents By Year of Grant:	136 136	
DAIMLERCHRYSLER CORPORATION Patents By Year of Grant:	135 135	
MASSACHUSETTS INSTITUTE OF TECHN Patents By Year of Grant:	TOLOGY 135 135	
TOYODA JIDOSHOKKI SEISAKUSHO KAB Patents By Year of Grant:	USHIKI KAISHA 135 135	
SHIN ETSU CHEMICAL CO., LTD. Patents By Year of Grant:	134 134	
MANNESMANN VDO AG Patents By Year of Grant:	132 132	

ORGANIZATION	2002	TOTAL	
PIONEER CORPORATION Patents By Year of Grant:		131	131
TOSHIBA TEC KABUSHIKI KAISHA Patents By Year of Grant:		130	130
YAMAHA CORPORATION Patents By Year of Grant:		130	130
AVAYA TECHNOLOGY CORP. Patents By Year of Grant:		128	128
AISIN SEIKI KABUSHIKI KAISHA Patents By Year of Grant:		127	127
EXXONMOBIL CHEMICAL PATENTS INC. Patents By Year of Grant:		126	126
FUJI PHOTO OPTICAL CO. LTD. Patents By Year of Grant:		126	126
ADVANTEST CORP. Patents By Year of Grant:		123	123
EBARA CORPORATION Patents By Year of Grant:		123	123
MACRONIX INTERNATIONAL CO., LTD. Patents By Year of Grant:		123	123
CYPRESS SEMICONDUCTOR CORP. Patents By Year of Grant:		122	122
COLGATE-PALMOLIVE COMPANY Patents By Year of Grant:		121	121
SILVERBROOK RESEARCH PTY. LTD Patents By Year of Grant:		121	121
COUNCIL OF SCIENTIFIC AND INDUST Patents By Year of Grant:	RIAL R	ESEARCH 120	120
DEERE + COMPANY Patents By Year of Grant:		119	119
DOW CHEMICAL COMPANY Patents By Year of Grant:		118	118
INSTITUT FRANCAIS DU PETROLE Patents By Year of Grant:		118	118
UNISYS CORPORATION Patents By Year of Grant:		118	118
WINBOND ELECTRONICS CORP. Patents By Year of Grant:		118	118
NSK LIMITED Patents By Year of Grant:		117	117
ELI LILLY AND COMPANY Patents By Year of Grant:		116	116
SOUTHPAC TRUST INTERNATIONAL, IN Patents By Year of Grant:	īC.	116	116

ORGANIZATION	2002	TOTAL	
ABBOTT LABORATORIES Patents By Year of Grant:		115	115
BROTHER KOGYO KABUSHIKI KAISHA Patents By Year of Grant:		115	115
LEXMARK INTERNATIONAL, INC. Patents By Year of Grant:		115	115
BAYER CORPORATION Patents By Year of Grant:		110	110
CALIFORNIA INSTITUTE OF TECHNOLO Patents By Year of Grant:	OGY	110	110
ISIS PHARMACEUTICALS, INC. Patents By Year of Grant:		110	110
DELL PRODUCTS, L.P. Patents By Year of Grant:		109	109
SAMSUNG SDI CO., LTD. Patents By Year of Grant:		108	108
LAM RESEARCH CORPORATION Patents By Year of Grant:		107	107
MERCK PATENT GESELLSCHAFT MIT BE Patents By Year of Grant:	ESCHRAN	NKTER HAF:	
AGFA-GEVAERT N.V. Patents By Year of Grant:		104	104
MITSUI CHEMICALS, INCORPORATED Patents By Year of Grant:		104	104
STANFORD UNIVERSITY, LELAND JUNI Patents By Year of Grant:		HE BOARD (
BRISTOL-MYERS SQUIBB COMPANY Patents By Year of Grant:		101	101
EMC CORPORATION Patents By Year of Grant:		101	101
SANDIA CORPORATION Patents By Year of Grant:		100	100
HYNIX SEMICONDUCTOR INC. Patents By Year of Grant:		99	99
NIPPON SHOKUBAI CO., LTD. Patents By Year of Grant:		98	98
ADVANCED CARDIOVASCULAR SYSTEMS, Patents By Year of Grant:	, INC.	96	96
EASTMAN CHEMICAL CO., LTD. Patents By Year of Grant:		96	96
NORTHROP GRUMMAN CORPORATION Patents By Year of Grant:		96	96
NOVARTIS AG (FORMERLY SANDOZ LTD Patents By Year of Grant:).)	95	95

ORGANIZATION	2002 TOTAL	
UOP Patents By Year of Grant:	95 95	
AKZO NOBEL NV Patents By Year of Grant:	94 94	
CARDIAC PACEMAKERS, INC. Patents By Year of Grant:	94 94	
NOKIA TELECOMMUNICATIONS OY Patents By Year of Grant:	94 94	
KAO KABUSHIKI KAISHA (KAO CORPO Patents By Year of Grant:	RATION) 92 92	
FRAUNHOFER-GESELLSCHAFT ZUR FOR Patents By Year of Grant:	DERUNG DER ANGEWANTEN FORSC 91 91	HUNG E.V.
UNIVERSITY OF TEXAS Patents By Year of Grant:	91 91	
MILLENNIUM PHARMACEUTICALS, INC Patents By Year of Grant:	90 90	
SHIMANO INC. Patents By Year of Grant:	90 90	
UNITED STATES OF AMERICA, HEALT Patents By Year of Grant:	H & HUMAN SERVICES 90 90	
ELECTRONICS AND TELECOMMUNICATION Patents By Year of Grant:	ONS RESEARCH INSTITUTE 89 89	
STMICROELECTRONICS, INC. Patents By Year of Grant:	89 89	
ALTERA CORPORATION Patents By Year of Grant:	87 87	
COMMISSARIAT A L'ENERGIE ATOMIQUE Patents By Year of Grant:	JE 86 86	
DEGUSSA AKTIENGESELLSCHAFT Patents By Year of Grant:	86 86	
HUMAN GENOME SCIENCES, INC. Patents By Year of Grant:	86 86	
NOKIA NETWORKS OY Patents By Year of Grant:	86 86	
FURUKAWA ELECTRIC CO., LTD. Patents By Year of Grant:	85 85	
ORACLE CORPORATION Patents By Year of Grant:	85 85	
SHOWA DENKO KABUSHIKI KAISHA Patents By Year of Grant:	85 85	
CIRRUS LOGIC, INC. Patents By Year of Grant:	84 84	
KANEKA CORPORATION Patents By Year of Grant:	84 84	

ORGANIZATION	2002	TOTAL	
KOITO MANUFACTURING COMPANY LIMIT Patents By Year of Grant:	ΓED	84	84
KOMATSU LTD. Patents By Year of Grant:		84	84
TOYODA GOSEI KABUSHIKI KAISHA Patents By Year of Grant:		84	84
UNITED STATES OF AMERICA, NATIONA	AL AEI	RONAUTICS	AND SPACE ADMINISTRATION
Patents By Year of Grant:		84	84
BASF CORP. Patents By Year of Grant:		83	83
MILLIKEN & COMPANY Patents By Year of Grant:		83	83
SUMITOMO RUBBER INDUSTRIES, LTD. Patents By Year of Grant:		83	83
HARRIS CORP. Patents By Year of Grant:		82	82
ITT MANUFACTURING ENTERPRISES, IN Patents By Year of Grant:	NC.	82	82
ASAHI GLASS COMPANY, LTD. Patents By Year of Grant:		81	81
JOHNS HOPKINS UNIVERSITY Patents By Year of Grant:		81	81
L'AIR LIQUIDE, SOCIETE ANONYME PO Patents By Year of Grant:	OUR L'	ETUDE ET 81	L'EXPLOITATION DES PROCEDES GEORGES CLAUDE 81
SARNOFF CORPORATION & CO., LTD. Patents By Year of Grant:		81	81
VOITH SULZER PAPIERTECHNIK PATENT Patents By Year of Grant:	r GMBF	I 81	81
WISCONSIN ALUMNI RESEARCH FOUNDATE Patents By Year of Grant:	TION	81	81
PHILLIPS PETROLEUM COMPANY Patents By Year of Grant:		80	80
UNI-CHARM CORPORATION Patents By Year of Grant:		80	80
CARRIER CORPORATION Patents By Year of Grant:		79	79
SHELL OIL COMPANY Patents By Year of Grant:		79	79
DAI NIPPON PRINTING CO. LTD Patents By Year of Grant:		78	78
PITNEY-BOWES, INC. Patents By Year of Grant:		78	78
ROCKWELL COLLINS, INC. Patents By Year of Grant:		78	78

ORGANIZATION	2002	TOTAL	
UNITED TECHNOLOGIES CORPORATION Patents By Year of Grant:		78	78
ASAHI KASEI KOGYO KABUSHIKI KAISH Patents By Year of Grant:	IA	77	77
ASTRAZENECA AB Patents By Year of Grant:		77	77
CALLAWAY GOLF COMPANY Patents By Year of Grant:		77	77
DANA CORPORATION Patents By Year of Grant:		77	77
KAWASAKI STEEL CORPORATION Patents By Year of Grant:		77	77
PACESETTER, INC. Patents By Year of Grant:		77	77
SHARP LABORATORIES OF AMERICA, IN Patents By Year of Grant:	ic.	77	77
APPLE COMPUTER, INC. Patents By Year of Grant:		76	76
AVENTIS PHARMA DEUTSCHLAND GMBH Patents By Year of Grant:		76	76
AVENTIS PHARMA SA Patents By Year of Grant:		76	76
Patents By Year of Grant:		76	76
NIPPON SHEET GLASS CO., LTD. Patents By Year of Grant: PHILIPS ELECTRONICS NORTH AMERICA	CODD	75	75
Patents By Year of Grant: AIR PRODUCTS AND CHEMICALS, INC.	CORP	• 75	75
Patents By Year of Grant: BROADCOM CORPORATION		74	74
Patents By Year of Grant: CLARIANT GMBH		74	74
Patents By Year of Grant: G. D. SEARLE & CO.		74	74
Patents By Year of Grant: NITTO DENKO CORPORATION		74	74
Patents By Year of Grant: ATI INTERNATIONAL SRL		74	74
Patents By Year of Grant: DAICEL CHEMICAL INDUSTRIES LTD.		73	73
Patents By Year of Grant: HOFFMANN-LA ROCHE INC.		73	73
Patents By Year of Grant:		73	73

ORGANIZATION 2002 TOTAL

YAMAHA HATSUDOKI KABUSHIKI KAISHA, YAMAH Patents By Year of Grant:	A MOTOR (CO., LTD. 73
PRAXAIR TECHNOLOGY, INC. Patents By Year of Grant:	72	72
WARNER-LAMBERT COMPANY Patents By Year of Grant:	72	72
AMKOR TECHNOLOGY, INC. Patents By Year of Grant:	71	71
HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN() Patents By Year of Grant:	HENKEL KO	GAA) 70
MANNESMANN SACHS AG Patents By Year of Grant:	70	70
SANSHIN KOGYO KABUSHIKI KAISHA Patents By Year of Grant:	70	70
GENENTECH, INC. Patents By Year of Grant:	69	69
INCYTE GENOMICS, INC. Patents By Year of Grant:	69	69
MOLEX INCORPORATED Patents By Year of Grant:	69	69
RHODIA CHIMIE Patents By Year of Grant:	69	69
ADC TELECOMMUNICATIONS, INC. Patents By Year of Grant:	68	68
DAIKIN INDUSTRIES LIMITED Patents By Year of Grant:	68	68
ETHICON, INC. Patents By Year of Grant:	68	68
MAXTOR CORPORATION Patents By Year of Grant:	68	68
OTIS ELEVATOR COMPANY Patents By Year of Grant:	68	68
UNITED STATES OF AMERICA, AIR FORCE Patents By Year of Grant:	68	68
ALLIED-SIGNAL INC. Patents By Year of Grant:	67	67
ANALOG DEVICES, INC. Patents By Year of Grant:	67	67
CONTINENTAL TEVES AG & CO., OHG Patents By Year of Grant:	67	67
TYCO ELECTRONICS CORPORATION Patents By Year of Grant:	67	67
BECTON, DICKINSON AND COMPANY Patents By Year of Grant:	66	66

ORGANIZATION	2002	TOTAL	
BREED AUTOMOTIVE TECHNOLOGY, INC. Patents By Year of Grant:		66	66
PPG INDUSTRIES OHIO INC. Patents By Year of Grant:		66	66
HILL-ROM COMPANY, INC. Patents By Year of Grant:		65	65
TORAY INDUSTRIES INC. Patents By Year of Grant:		65	65
VANGUARD INTERNATIONAL SEMICONDUC Patents By Year of Grant:	TOR C		ON 65
AJINOMOTO COMPANY INCORPORATED Patents By Year of Grant:		64	64
BAYERISCHE MOTOREN WERKE AG Patents By Year of Grant:		64	6 4
BLACK & DECKER INC. Patents By Year of Grant:		64	64
BOMBARDIER MOTOR CORPORATION OF A	MERIC	A	64
Patents By Year of Grant: CASIO COMPUTER CO. LTD.			
Patents By Year of Grant: NESTEC, S.A.		64	64
Patents By Year of Grant: PIONEER ELECTRONIC CORPORATION		64	64
Patents By Year of Grant: SIEMENS AUTOMOTIVE CORPORATION		64	64
Patents By Year of Grant:		64	64
TAKEDA CHEMICAL INDUSTRIES LTD. Patents By Year of Grant:		64	64
DSM N.V. Patents By Year of Grant:		63	63
SILICONWARE PRECISION INDUSTRIES Patents By Year of Grant:	co.,	LTD. 63	63
JDS UNIPHASE CORPORATION Patents By Year of Grant:		62	62
NIPPON STEEL CORP. Patents By Year of Grant:		62	62
PIONEER HI-BRED INTERNATIONAL, IN Patents By Year of Grant:	IC.	62	62
SCHERING CORP. Patents By Year of Grant:		62	62
ALSTOM (SWITZERLAND) LTD Patents By Year of Grant:		61	61
AMERICAN HOME PRODUCTS CORPORATION Patents By Year of Grant:	ON	61	61

ORGANIZATION	2002	TOTAL	
CITIZEN WATCH CO., LTD. Patents By Year of Grant:		61	61
MINEBEA KABUSHIKI-KAISHA (MINEBE Patents By Year of Grant:	EA CO.,	LTD) 61	61
SPALDING SPORTS WORLDWIDE, INC. Patents By Year of Grant:		61	61
STORAGE TECHNOLOGY CORPORATION Patents By Year of Grant:		61	61
EMERSON ELECTRIC CO. Patents By Year of Grant:		60	60
LEAR CORPORATION Patents By Year of Grant:		60	60
TETRA LAVAL HOLDINGS & FINANCE S Patents By Year of Grant:	5.A.	60	60
UNISIA JECS CORPORATION Patents By Year of Grant:		60	60
VICTOR COMPANY OF JAPAN, LIMITED Patents By Year of Grant:	•	60	60
WEATHERFORD/LAMB, INC. Patents By Year of Grant:		60	60
HILTI AKTIENGESELLSCHAFT Patents By Year of Grant:		59	59
NGK SPARK PLUG CO., LTD. Patents By Year of Grant:		59	59
TEKTRONIX INC. Patents By Year of Grant:		59	59
PHARMACIA & UPJOHN COMPANY Patents By Year of Grant:		58	58
READ-RITE CORPORATION Patents By Year of Grant:		58	58
ALSTOM Patents By Year of Grant:		57	57
FUJI ELECTRIC CO., LTD. Patents By Year of Grant:		57	57
KYOCERA CORPORATION Patents By Year of Grant:		57	57
TAKATA CORPORATION Patents By Year of Grant:		57	57
TEIJIN LIMITED Patents By Year of Grant:		57	57
AVERY DENNISON CORPORATION Patents By Year of Grant:		56	56
BRITISH TELECOMMUNICATION, PLC Patents By Year of Grant:		56	56

ORGANIZATION	2002 TOTAL	
CABOT CORPORATION		
Patents By Year of Grant:	56 56	
METSO PAPER, INC. Patents By Year of Grant:	56 56	
NIPPON TELEGRAPH & TELEPHONE (Patents By Year of Grant:	CORP. 56 56	
AGENCY OF INDUSTRIAL SCIENCE 8 Patents By Year of Grant:	& TECHNOLOGY 55 55	
FITEL U.S.A. CORP. Patents By Year of Grant:	55 55	
PORSCHE AG Patents By Year of Grant:	55 55	
ALLERGAN SALES, INC. Patents By Year of Grant:	54 54	
BAXTER INTERNATIONAL INC. Patents By Year of Grant:	54 54	
FAIRCHILD SEMICONDUCTOR CORPORT Patents By Year of Grant:	RATION 54 54	
JOHNSON CONTROLS TECHNOLOGY CO Patents By Year of Grant:	OMPANY 54 54	
MITSUBISHI CHEMICAL CORPORATION Patents By Year of Grant:	ON 54 54	
RESEARCH FOUNDATION OF STATE T Patents By Year of Grant:	UNIVERSITY OF NEW YORK 54 54	
ASEA BROWN BOVERI AB Patents By Year of Grant:	53 53	
DONNELLY CORPORATION Patents By Year of Grant:	53 53	
EXXONMOBIL RESEARCH AND ENGINE Patents By Year of Grant:	EERING COMPANY 53 53	
RISO KAGAKU CORPORATION Patents By Year of Grant:	53 53	
SILICON GRAPHICS, INC. Patents By Year of Grant:	53 53	
STEELCASE DEVELOPMENT CORPORATE Patents By Year of Grant:	TION 53 53	
SUZUKI MOTOR CORPORATION Patents By Year of Grant:	53 53	
WYETH Patents By Year of Grant:	53 53	
ACUSHNET COMPANY Patents By Year of Grant:	52 52	
AGERE SYSTEMS INC. Patents By Year of Grant:	52 52	

ORGANIZATION 2002 TOTAL

BAE SYSTEMS INFORMATION AND ELECTRONIC S Patents By Year of Grant:	SYSTEMS 52	INTEGRATION, 52	INC.
CHIRON CORPORATION Patents By Year of Grant:	52	52	
NATIONAL SCIENCE COUNCIL Patents By Year of Grant:	52	52	
NTN CORPORATION Patents By Year of Grant:	52	52	
ROCKWELL AUTOMATION TECHNOLOGIES, INC. Patents By Year of Grant:	52	52	
SEMICONDUCTOR COMPONENTS INDUSTRIES, LLC Patents By Year of Grant:	C 52	52	
SONY COMPUTER ENTERTAINMENT INC. Patents By Year of Grant:	52	52	
UT-BATTELLE, LLC Patents By Year of Grant:	52	52	
ACUSON CORPORATION Patents By Year of Grant:	51	51	
ANDO ELECTRIC CO., LTD. Patents By Year of Grant:	51	51	
BRUNSWICK CORPORATION Patents By Year of Grant:	51	51	
CASE CORPORATION Patents By Year of Grant:	51	51	
CORNING CABLE SYSTEMS LLC Patents By Year of Grant:	51	51	
DOW CORNING CORPORATION Patents By Year of Grant:	51	51	
FCI AMERICAS TECHNOLOGY, INC. Patents By Year of Grant:	51	51	
HUBBELL INCORPORATED Patents By Year of Grant:	51	51	
MOSEL VITELIC, INCORPORATED Patents By Year of Grant:	51	51	
BELLSOUTH INTELLECTUAL PROPERTY MANAGMENT Patents By Year of Grant:	NT CORPO	RATION 50	
CALIPER TECHNOLOGIES CORP. Patents By Year of Grant:	50	50	
FUJI JUKOGYO KABUSHIKI KAISHA Patents By Year of Grant:	50	50	
INA WALZLAGER SCHAEFFLER OHG Patents By Year of Grant:	50	50	
KOYO SEIKO COMPANY, LTD. Patents By Year of Grant:	50	50	

ORGANIZATION	2002	TOTAL	
KURARAY CO., LTD. Patents By Year of Grant:		50	50
PE CORPORATION Patents By Year of Grant:		50	50
TOKAI RIKA DENKI SEISAKUSHO K.K. Patents By Year of Grant:		50	50
DELTA ELECTRONICS INC. Patents By Year of Grant:		49	49
GATEWAY 2000, INC. Patents By Year of Grant:		49	49
IDEMITSU PETROCHEMICAL COMPANY L'	FD.	49	49
KOREA INSTITUTE OF SCIENCE AND THE Patents By Year of Grant:	ECHNOL	OGY 49	49
MICHIGAN STATE UNIVERSITY Patents By Year of Grant:		49	49
NOVOZYMES A/S Patents By Year of Grant:		49	49
ROCHE DIAGNOSTICS GMBH Patents By Year of Grant:		49	49
SEPRACOR INC. Patents By Year of Grant:		49	49
SIEMENS INFORMATION AND COMMUNICA Patents By Year of Grant:	ATIONS	NETWORKS, 49	INC.
TESSERA, INC. Patents By Year of Grant:		49	49
TRW OCCUPANY RESTRAINT SYSTEMS G Patents By Year of Grant:	мвн &	CO., KG 49	49
YKK CORPORATION Patents By Year of Grant:		49	49
ADVANCED TECHNOLOGY MATERIALS, IN Patents By Year of Grant:	NC.	48	48
GENERAL HOSPITAL CORPORATION Patents By Year of Grant:		48	48
HARVARD COLLEGE, PRESIDENT AND FE Patents By Year of Grant:	ELLOWS	48	48
KODAK POLYCHROME GRAPHICS, LLC Patents By Year of Grant:		48	48
MATSUSHITA ELECTRIC WORKS, LTD. Patents By Year of Grant:		48	48
MITSUBISHI GAS-CHEMICAL COMPANY, Patents By Year of Grant:	INC.	48	48
ORTHO-MCNEIL PHARMACEUTICAL, INC. Patents By Year of Grant:	•	48	48

ORGANIZATION	<u>2002</u> <u>TOTAL</u>	
SANDVIK AKTIEBOLAG Patents By Year of Grant:	48	48
AMERITECH CORPORATION Patents By Year of Grant:	47	47
CHISSO CORPORATION Patents By Year of Grant:	47	47
MITSUMI ELECTRIC CO., LTD. Patents By Year of Grant:	47	47
SCA HYGIENE PRODUCTS AB Patents By Year of Grant:	47	47
SHIMADZU CORPORATION Patents By Year of Grant:	47	47
SUMITOMO SPECIAL METAL COMPANY Patents By Year of Grant:	Y LIMITED 47	47
SYMYX TECHNOLOGIES, INC. Patents By Year of Grant:	47	47
TRIMBLE NAVIGATION, LTD. Patents By Year of Grant:	47	47
UNIVERSITY OF MICHIGAN Patents By Year of Grant:	47	47
CALSONIC KANSEI CORPORATION Patents By Year of Grant:	46	46
FMC CORPORATION Patents By Year of Grant:	46	46
FUJISAWA PHARMACEUTICAL CO., I Patents By Year of Grant:		46
KOREA ADVANCED INSTITUTE OF SO Patents By Year of Grant:	CIENCE AND TECHN 46	OLOGY 46
MITUTOYO CORPORATION		
Patents By Year of Grant:	46	46
OWENS-CORNING FIBERGLAS CORPORT Patents By Year of Grant:	RATION 46	46
PATENT-TREUHAND-GESELLSCHAFT I Patents By Year of Grant:	FUR ELEKTRISCHE 46	GLUHLAMPEN MBH 46
SIEMENS WESTINGHOUSE POWER COP Patents By Year of Grant:	RPORATION 46	46
THOMSON-CSF Patents By Year of Grant:	46	46
AFFYMETRIX, INC. Patents By Year of Grant:	45	45
AUTONETWORKS TECHNOLOGIES, LTI Patents By Year of Grant:		45
BORGWARNER INC. Patents By Year of Grant:	45	45

ORGANIZATION	2002 TOTAL	
COLUMBIA UNIVERSITY Patents By Year of Grant:	45	45
GILLETTE COMPANY Patents By Year of Grant:	45	45
NATIONAL STARCH AND CHEMICAL IN Patents By Year of Grant:	IVESTMENT HOLDING 45	
NORDSON CORPORATION Patents By Year of Grant:	45	45
PENN STATE RESEARCH FOUNDATION, Patents By Year of Grant:	INC. 45	45
SAMSUNG ELECTRO-MECHANICS CO., Patents By Year of Grant:	LTD. 45	45
SEMITOOL, INC. Patents By Year of Grant:	45	45
UNITED STATES OF AMERICA, DEPAR Patents By Year of Grant:	TMENT OF ENERGY 45	45
UNIVERSITY OF PENNSYLVANIA Patents By Year of Grant:	45	45
ZAHNRADFABRIK FRIEDRICHSHAFEN A Patents By Year of Grant:	AG 45	45
ALCATEL USA SOURCING, L.P. Patents By Year of Grant:	44	44
BRIDGESTONE SPORTS CO., LTD. Patents By Year of Grant:	44	44
ECOLAB INC. Patents By Year of Grant:	44	44
KOBE STEEL LTD. Patents By Year of Grant:	44	44
MAZDA MOTOR CORPORATION Patents By Year of Grant:	44	44
NISSHINBO INDUSTRIES, INC. Patents By Year of Grant:	44	44
OMRON CORPORATION Patents By Year of Grant:	44	44
S. C. JOHNSON + SON, INC. Patents By Year of Grant:	44	44
UNION CARBIDE CHEMICALS & PLAST Patents By Year of Grant:	CICS TECHNOLOGY CO	ORPORATION 44
WEBASTO VEHICLE SYSTEMS INTERNA Patents By Year of Grant:	ATIONAL GMBH 44	44
ADAPTEC, INC. Patents By Year of Grant:	43	43
ATT WIRELESS SERVICES INC Patents By Year of Grant:	43	43

ORGANIZATION	2002	TOTAL	
BATTELLE MEMORIAL INSTITUTE Patents By Year of Grant:		43	43
CYTOKINETICS, INC. Patents By Year of Grant:		43	43
DEGUSSA-HUELS AKTIENGESELLSCHAF Patents By Year of Grant:	'T	43	43
ENGELHARD CORPORATION Patents By Year of Grant:		43	43
KONAMI CO., LTD. Patents By Year of Grant:		43	43
LUCAS INDUSTRIES PUBLIC LTD. CO Patents By Year of Grant:	MPANY	43	43
MARCONI COMMUNICATIONS, INC. Patents By Year of Grant:		43	43
MCI COMMUNICATIONS CORP. Patents By Year of Grant:		43	43
RAMBUS, INC. Patents By Year of Grant:		43	43
SUMITOMO METAL INDUSTRIES CO., Patents By Year of Grant:	LTD.	43	43
UNITED STATES OF AMERICA, DEPAR Patents By Year of Grant:	TMENT O		LTURE 43
CLARIANT FINANCE (BVI) LIMITED Patents By Year of Grant:		42	42
FOXCONN PRECISION COMPONENTS, C Patents By Year of Grant:	.O., LTI	42	42
INTERNATIONAL RECTIFIER CORPORA Patents By Year of Grant:	TION	42	42
LITTON SYSTEMS INC. Patents By Year of Grant:		42	42
ROLLS-ROYCE PLC Patents By Year of Grant:		42	42
SMITHKLINE BEECHAM PLC Patents By Year of Grant:		42	42
SPRINT COMMUNICATIONS COMPANY L Patents By Year of Grant:	.P.	42	42
VIA TECHNOLOGIES, INC. Patents By Year of Grant:		42	42
BP CHEMICALS LIMITED Patents By Year of Grant:		41	41
BRISTOL-MYERS SQUIBB PHARMA COM Patents By Year of Grant:	IPANY	41	41
DOW CORNING TORAY SILICONE COMP Patents By Year of Grant:	'ANY LIM	IITED 41	41

ORGANIZATION	2002	TOTAL	
FILTERWERK MANN + HUMMEL GMBH Patents By Year of Grant:		41	41
HENKEL CORPORATION Patents By Year of Grant:		41	41
MATTEL INC. Patents By Year of Grant:		41	41
MAYTAG CORPORATION Patents By Year of Grant:		41	41
NEXPRESS SOLUTIONS LLC Patents By Year of Grant:		41	41
NOKIA CORPORATION Patents By Year of Grant:		41	41
PARKER-HANNIFIN CORPORATION Patents By Year of Grant:		41	41
SEGA ENTERPRISES, LTD. Patents By Year of Grant:		41	41
UNIVERSITY OF MINNESOTA, THE REGI	ENTS O	F 41	41
UNIVERSITY OF WASHINGTON Patents By Year of Grant:		41	41
ADVANCED SEMICONDUCTOR ENGINEERING Patents By Year of Grant:	NG, IN	C. 40	40
FUNAI ELECTRIC CO., LTD. Patents By Year of Grant:		40	40
INTERDIGITAL TECHNOLOGY CORPORAT: Patents By Year of Grant:	ION	40	40
KAWASAKI JUKOGYO KABUSHIKI KAISHA Patents By Year of Grant:	1	40	40
MAGNECOMP CORP. Patents By Year of Grant:		40	40
SCROLL TECHNOLOGIES, INC. Patents By Year of Grant:		40	40
SMITH INTERNATIONAL INC. Patents By Year of Grant:		40	40
SPACE SYSTEMS/LORAL, INC. Patents By Year of Grant:		40	40
TOKAI RUBBER INDUSTRIES, LTD. Patents By Year of Grant:		40	40
TRW VEHICLE SAFETY SYSTEMS, INC. Patents By Year of Grant:		40	40
Other Organizations (25922) Patents By Year of Grant:		66995	66995