

PATENTING BY ORGANIZATIONS

1997



March 1998
U.S. PATENT AND TRADEMARK OFFICE
OFFICE OF ELECTRONIC INFORMATION PRODUCTS / TAF PROGRAM
PK3 - Suite 441, WASHINGTON, DC 20231
tel (703) 306-2600 / FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

Patenting By Organizations 1997

This report, prepared from the Technology Assessment and Forecast (TAF) data base, profiles utility patents (i.e., patents for inventions) granted during **calendar year 1997**.

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 which received 30 or more patents during the calendar year. Organizations are ranked based on their patent count.

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 1997

In **calendar year 1997**, the U.S. Government received **935** 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 30 or more patents during the calendar year is listed in **Part B1**.

Part A1

(Patent Grants as Distributed By Year of Patent Grant)

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1997 - Dec 31, 1997) ----

----- NUMBER OF PATENTS -----		
	1997	Total
Total	111984	111984
U.S. Origin	61710	61710
Foreign Origin	50274	50274
JAPAN	23178	23178
GERMANY	7008	7008
FRANCE	2958	2958
UNITED KINGDOM	2678	2678
CANADA	2378	2378
TAIWAN	2057	2057
SOUTH KOREA	1891	1891
ITALY	1239	1239
SWITZERLAND	1090	1090
SWEDEN	867	867
NETHERLANDS	809	809
ISRAEL	534	534
BELGIUM	514	514
AUSTRALIA	478	478
FINLAND	452	452
AUSTRIA	376	376
DENMARK	333	333
SPAIN	177	177
NORWAY	142	142
RUSSIAN FEDERATION	111	111
S. AFRICA	101	101
SINGAPORE	94	94
NEW ZEALAND	85	85
HONG KONG, S.A.R. -PEOP	81	81
IRELAND	73	73
CHINA P.REP.	62	62
BRAZIL	62	62
INDIA	47	47
MEXICO	45	45
ARGENTINA	35	35
HUNGARY	25	25
VENEZUELA	25	25
LUXEMBOURG	22	22
MALAYSIA	17	17
SAUDI ARABIA	14	14
CZECH REPUBLIC	14	14
Others (52)	202	202
Ownership:		
U.S. Corporations	50229	50229
U.S. Government	935	935
U.S. Individuals	12914	12914
Foreign Corporations	42908	42908
Foreign Government	273	273
Foreign Individuals	4725	4725

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1997 - Dec 31, 1997) ----

----- PERCENT OF PATENTS -----		
	1997	Total
Total	100	100
U.S. Origin	55	55
Foreign Origin	45	45
JAPAN	21	21
GERMANY	6	6
FRANCE	3	3
UNITED KINGDOM	2	2
CANADA	2	2
TAIWAN	2	2
SOUTH KOREA	2	2
ITALY	1	1
SWITZERLAND	1	1
SWEDEN	1	1
NETHERLANDS	1	1
ISRAEL		0
BELGIUM		0
AUSTRALIA		0
FINLAND		0
AUSTRIA		0
DENMARK		0
SPAIN		0
NORWAY		0
RUSSIAN FEDERATION		0
S. AFRICA		0
SINGAPORE		0
NEW ZEALAND		0
HONG KONG,S.A.R.-PEOP		0
IRELAND		0
CHINA P.REP.		0
BRAZIL		0
INDIA		0
MEXICO		0
ARGENTINA		0
HUNGARY		0
VENEZUELA		0
LUXEMBOURG		0
MALAYSIA		0
SAUDI ARABIA		0
CZECH REPUBLIC		0
Others (52)		0
Ownership:		
U.S. Corporations	45	45
U.S. Government	1	1
U.S. Individuals	12	12
Foreign Corporations	38	38
Foreign Government		0
Foreign Individuals	4	4

Part B1

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

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
INTERNATIONAL BUSINESS MACHINES CORPORATION		
Patents By Year of Grant:	1724	1724
CANON KABUSHIKI KAISHA		
Patents By Year of Grant:	1381	1381
NEC CORPORATION		
Patents By Year of Grant:	1095	1095
MOTOROLA, INC.		
Patents By Year of Grant:	1058	1058
FUJITSU LIMITED		
Patents By Year of Grant:	903	903
HITACHI, LTD		
Patents By Year of Grant:	903	903
MITSUBISHI DENKI KABUSHIKI KAISHA		
Patents By Year of Grant:	892	892
TOSHIBA CORPORATION		
Patents By Year of Grant:	862	862
SONY CORPORATION		
Patents By Year of Grant:	859	859
EASTMAN KODAK COMPANY		
Patents By Year of Grant:	795	795
LUCENT TECHNOLOGIES INC.		
Patents By Year of Grant:	768	768
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		
Patents By Year of Grant:	746	746
GENERAL ELECTRIC COMPANY		
Patents By Year of Grant:	664	664
TEXAS INSTRUMENTS, INCORPORATED		
Patents By Year of Grant:	607	607
XEROX CORPORATION		
Patents By Year of Grant:	606	606
SAMSUNG ELECTRONICS CO., LTD.		
Patents By Year of Grant:	582	582

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
MINNESOTA MINING AND MANUFACTURING COMPANY		
Patents By Year of Grant:	548	548
HEWLETT-PACKARD COMPANY		
Patents By Year of Grant:	530	530
NIKON CORPORATION		
Patents By Year of Grant:	479	479
U.S. PHILIPS CORPORATION		
Patents By Year of Grant:	473	473
FUJI PHOTO FILM CO., LTD		
Patents By Year of Grant:	467	467
SIEMENS AKTIENGESELLSCHAFT		
Patents By Year of Grant:	454	454
PROCTER + GAMBLE COMPANY		
Patents By Year of Grant:	406	406
INTEL CORPORATION		
Patents By Year of Grant:	405	405
SHARP KABUSHIKI KAISHA (SHARP CORPORATION)		
Patents By Year of Grant:	394	394
BAYER AKTIENGESELLSCHAFT		
Patents By Year of Grant:	357	357
HOECHST AKTIENGESELLSCHAFT		
Patents By Year of Grant:	353	353
HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)		
Patents By Year of Grant:	341	341
RICOH COMPANY, LTD.		
Patents By Year of Grant:	336	336
MICRON TECHNOLOGY, INC.		
Patents By Year of Grant:	318	318
NIPPONDENSO CO., LTD.		
Patents By Year of Grant:	312	312
E. I. DU PONT DE NEMOURS AND COMPANY		
Patents By Year of Grant:	311	311

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
UNITED STATES OF AMERICA, NAVY Patents By Year of Grant:	288	288
GENERAL MOTORS CORPORATION Patents By Year of Grant:	277	277
BASF AKTIENGESELLSCHAFT Patents By Year of Grant:	276	276
UNIVERSITY OF CALIFORNIA, THE REGENTS OF Patents By Year of Grant:	275	275
ADVANCED MICRO DEVICES, INC. Patents By Year of Grant:	271	271
ROBERT BOSCH GMBH Patents By Year of Grant:	267	267
FORD MOTOR COMPANY Patents By Year of Grant:	265	265
CIBA-GEIGY CORPORATION Patents By Year of Grant:	238	238
YAZAKI CORP. Patents By Year of Grant:	238	238
SEIKO EPSON CORPORATION Patents By Year of Grant:	225	225
ELI LILLY AND COMPANY Patents By Year of Grant:	222	222
OLYMPUS OPTICAL CO., LTD. Patents By Year of Grant:	213	213
CATERPILLAR INC. Patents By Year of Grant:	212	212
DAEWOO ELECTRONICS COMPANY, LTD. Patents By Year of Grant:	211	211
TOYOTA JIDOSHA K.K. Patents By Year of Grant:	211	211
APPLE COMPUTER, INC. Patents By Year of Grant:	206	206

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
HUGHES ELECTRONIC DEVICES CORPORATION		
Patents By Year of Grant:	205	205
MICROSOFT CORPORATION		
Patents By Year of Grant:	199	199
WHITAKER CORPORATION		
Patents By Year of Grant:	198	198
ABBOTT LABORATORIES		
Patents By Year of Grant:	189	189
NATIONAL SEMICONDUCTOR CORPORATION		
Patents By Year of Grant:	188	188
FUJI XEROX CO., LTD.		
Patents By Year of Grant:	182	182
SUMITOMO ELECTRIC INDUSTRIES CO., LTD.		
Patents By Year of Grant:	172	172
LSI LOGIC CORPORATION		
Patents By Year of Grant:	168	168
UNITED STATES OF AMERICA, ARMY		
Patents By Year of Grant:	168	168
L'OREAL S.A.		
Patents By Year of Grant:	165	165
SANYO ELECTRIC CO., LTD.		
Patents By Year of Grant:	164	164
DOW CHEMICAL COMPANY		
Patents By Year of Grant:	163	163
MERCK + CO., INC.		
Patents By Year of Grant:	161	161
DAIMLER-BENZ AKTIENGESELLSCHAFT		
Patents By Year of Grant:	159	159
MINOLTA CAMERA CO., LTD.		
Patents By Year of Grant:	158	158
HYUNDAI ELECTRONICS INDUSTRIES CO., LTD.		
Patents By Year of Grant:	154	154

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN		
Patents By Year of Grant:	153	153
SUN MICROSYSTEMS, INC.		
Patents By Year of Grant:	152	152
ASAHI KOGAKU KOGYO KABUSHIKI KAISHA		
Patents By Year of Grant:	151	151
MURATA MANUFACTURING CO., LTD.		
Patents By Year of Grant:	150	150
UNITED STATES OF AMERICA, HEALTH & HUMAN SERVICES		
Patents By Year of Grant:	150	150
BROTHER KOGYO KABUSHIKI KAISHA		
Patents By Year of Grant:	149	149
UNITED MICROELECTRONICS CORPORATION		
Patents By Year of Grant:	149	149
EATON CORPORATION		
Patents By Year of Grant:	145	145
YAMAHA CORPORATION		
Patents By Year of Grant:	140	140
CHRYSLER MOTORS CORPORATION		
Patents By Year of Grant:	139	139
NISSAN MOTOR COMPANY, LIMITED		
Patents By Year of Grant:	138	138
BRISTOL-MYERS SQUIBB COMPANY		
Patents By Year of Grant:	134	134
BECTON, DICKINSON AND COMPANY		
Patents By Year of Grant:	133	133
DIGITAL EQUIPMENT CORPORATION		
Patents By Year of Grant:	133	133
HUGHES AIRCRAFT COMPANY		
Patents By Year of Grant:	130	130
TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.		
Patents By Year of Grant:	130	130

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
COMPAQ COMPUTER CORPORATION		
Patents By Year of Grant:	129	129
KONICA CORPORATION		
Patents By Year of Grant:	125	125
SHELL OIL COMPANY		
Patents By Year of Grant:	123	123
SUMITOMO CHEMICAL COMPANY, LIMITED		
Patents By Year of Grant:	123	123
UNITED TECHNOLOGIES CORPORATION		
Patents By Year of Grant:	123	123
SUMITOMO WIRING SYSTEMS, LTD.		
Patents By Year of Grant:	122	122
ALLIED-SIGNAL INC.		
Patents By Year of Grant:	119	119
LG SEMICON CO., LTD.		
Patents By Year of Grant:	119	119
SOUTHPAC TRUST INTERNATIONAL, INC.		
Patents By Year of Grant:	118	118
EXXON CHEMICALS PATENTS INC.		
Patents By Year of Grant:	115	115
HARRIS CORP.		
Patents By Year of Grant:	115	115
MORTON INTERNATIONAL, INC.		
Patents By Year of Grant:	115	115
AGFA-GEVAERT N.V.		
Patents By Year of Grant:	114	114
BOEING COMPANY		
Patents By Year of Grant:	114	114
SGS-THOMSON MICROELECTRONICS S.R.L.		
Patents By Year of Grant:	114	114
LG ELECTRONICS INC.		
Patents By Year of Grant:	113	113

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
TELEFONAKTIEBOLAGET LM ERICSSON		
Patents By Year of Grant:	113	113
PIONEER ELECTRONIC CORPORATION		
Patents By Year of Grant:	110	110
UNISYS CORPORATION		
Patents By Year of Grant:	109	109
AMERICAN CYANAMID COMPANY		
Patents By Year of Grant:	107	107
KAO KABUSHIKI KAISHA (KAO CORPORATION)		
Patents By Year of Grant:	107	107
MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
Patents By Year of Grant:	102	102
NOVO NORDISK A/S		
Patents By Year of Grant:	102	102
PFIZER INC.		
Patents By Year of Grant:	102	102
KIMBERLY-CLARK CORPORATION		
Patents By Year of Grant:	101	101
NORTHROP GRUMMAN CORPORATION		
Patents By Year of Grant:	101	101
TRW INC.		
Patents By Year of Grant:	101	101
HONEYWELL INC.		
Patents By Year of Grant:	100	100
SEAGATE TECHNOLOGY		
Patents By Year of Grant:	98	98
MONSANTO CO.		
Patents By Year of Grant:	97	97
SEMICONDUCTOR ENERGY LABORATORY CO., LTD.		
Patents By Year of Grant:	97	97
SHIN ETSU CHEMICAL CO., LTD.		
Patents By Year of Grant:	97	97

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting (Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
DELL USA, L.P.		
Patents By Year of Grant:	96	96
ROHM COMPANY LIMITED		
Patents By Year of Grant:	96	96
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		
Patents By Year of Grant:	96	96
KIMBERLY-CLARK WORLDWIDE, INC.		
Patents By Year of Grant:	95	95
UNITED STATES SURGICAL CORPORATION		
Patents By Year of Grant:	95	95
DELCO ELECTRONICS CORPORATION		
Patents By Year of Grant:	94	94
ZENECA LIMITED		
Patents By Year of Grant:	94	94
APPLIED MATERIALS, INC.		
Patents By Year of Grant:	93	93
FUJI ELECTRIC CO., LTD.		
Patents By Year of Grant:	93	93
GOODYEAR TIRE + RUBBER COMPANY		
Patents By Year of Grant:	93	93
VLSI TECHNOLOGY, INC.		
Patents By Year of Grant:	93	93
ILLINOIS TOOL WORKS INC.		
Patents By Year of Grant:	92	92
BASF CORP.		
Patents By Year of Grant:	91	91
MOBIL OIL CORP.		
Patents By Year of Grant:	91	91
MEDTRONIC INC.		
Patents By Year of Grant:	90	90
BAYER CORPORATION		
Patents By Year of Grant:	89	89

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
MITSUBISHI CHEMICAL CORPORATION		
Patents By Year of Grant:	89	89
NIPPON STEEL CORP.		
Patents By Year of Grant:	89	89
DOW CORNING CORPORATION		
Patents By Year of Grant:	88	88
HEIDELBERGER DRUCKMASCHINEN AG		
Patents By Year of Grant:	88	88
AKZO NOBEL NV		
Patents By Year of Grant:	87	87
WARNER-LAMBERT COMPANY		
Patents By Year of Grant:	87	87
FORD GLOBAL TECHNOLOGIES, INC.		
Patents By Year of Grant:	86	86
INSTITUT FRANCAIS DU PETROLE		
Patents By Year of Grant:	86	86
SGS-THOMSON MICROELECTRONICS S.A.		
Patents By Year of Grant:	86	86
TOKYO ELECTRON LIMITED		
Patents By Year of Grant:	86	86
UNITED STATES OF AMERICA, AIR FORCE		
Patents By Year of Grant:	86	86
SGS-THOMSON MICROELECTRONICS, INC.		
Patents By Year of Grant:	85	85
CIRRUS LOGIC, INC.		
Patents By Year of Grant:	84	84
GOLDSTAR COMPANY, LTD.		
Patents By Year of Grant:	84	84
PITNEY-BOWES, INC.		
Patents By Year of Grant:	84	84
GENENTECH, INC.		
Patents By Year of Grant:	82	82

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
NGK INSULATORS LTD.		
Patents By Year of Grant:	81	81
UNIVERSITY OF TEXAS		
Patents By Year of Grant:	81	81
EASTMAN CHEMICAL COMPANY		
Patents By Year of Grant:	80	80
NCR CORPORATION		
Patents By Year of Grant:	80	80
COMMISSARIAT A L'ENERGIE ATOMIQUE		
Patents By Year of Grant:	79	79
DANA CORPORATION		
Patents By Year of Grant:	79	79
HOFFMANN-LA ROCHE INC.		
Patents By Year of Grant:	79	79
CORNING INCORPORATED		
Patents By Year of Grant:	78	78
ANALOG DEVICES, INC.		
Patents By Year of Grant:	77	77
TAKEDA CHEMICAL INDUSTRIES LTD.		
Patents By Year of Grant:	77	77
ALPS ELECTRIC CO., LTD.		
Patents By Year of Grant:	76	76
BAKER HUGHES INCORPORATED		
Patents By Year of Grant:	76	76
FUJI PHOTO OPTICAL CO. LTD.		
Patents By Year of Grant:	76	76
MITSUI PETROCHEMICAL INDUSTRIES LTD.		
Patents By Year of Grant:	76	76
PHILIPS ELECTRONICS NORTH AMERICA CORP.		
Patents By Year of Grant:	76	76
PHILLIPS PETROLEUM COMPANY		
Patents By Year of Grant:	76	76

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
TRW VEHICLE SAFETY SYSTEMS, INC. Patents By Year of Grant:	76	76
G. D. SEARLE & CO. Patents By Year of Grant:	75	75
HOECHST CELANESE CORPORATION Patents By Year of Grant:	75	75
ROCKWELL INTERNATIONAL CORPORATION Patents By Year of Grant:	75	75
BRIDGESTONE CORPORATION Patents By Year of Grant:	74	74
PPG INDUSTRIES INC. Patents By Year of Grant:	74	74
TDK CORPORATION Patents By Year of Grant:	74	74
YAMAHA HATSUDOKI KABUSHIKI KAISHA, YAMAHA MOTOR CO., LTD. Patents By Year of Grant:	74	74
AGENCY OF INDUSTRIAL SCIENCE & TECHNOLOGY Patents By Year of Grant:	73	73
AISIN SEIKI KABUSHIKI KAISHA Patents By Year of Grant:	73	73
EXXON RESEARCH + ENGINEERING CO. Patents By Year of Grant:	73	73
MITA INDUSTRIAL COMPANY LTD. Patents By Year of Grant:	73	73
W. R. GRACE & CO.-CONN. Patents By Year of Grant:	73	73
HYUNDAI MOTOR CO., LTD. Patents By Year of Grant:	72	72
MITSUI TOATSU CHEMICALS INC. Patents By Year of Grant:	72	72
MOLEX INCORPORATED Patents By Year of Grant:	72	72

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(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
WESTINGHOUSE ELECTRIC CORP. Patents By Year of Grant:	72	72
AIR PRODUCTS AND CHEMICALS, INC. Patents By Year of Grant:	71	71
ALLERGAN, INC. Patents By Year of Grant:	71	71
CHIRON CORPORATION Patents By Year of Grant:	71	71
FMC CORPORATION Patents By Year of Grant:	71	71
HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN (HENKEL KGAA) Patents By Year of Grant:	71	71
KAWASAKI STEEL CORPORATION Patents By Year of Grant:	70	70
RHONE-POULENC CHIMIE Patents By Year of Grant:	70	70
FICHTEL + SACHS AG Patents By Year of Grant:	69	69
SCHERING CORP. Patents By Year of Grant:	69	69
SMITHKLINE BEECHAM CORPORATION Patents By Year of Grant:	69	69
ALCATEL N. V. Patents By Year of Grant:	68	68
ERICSSON, INC. Patents By Year of Grant:	68	68
UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY Patents By Year of Grant:	68	68
ARCO CHEMICAL TECHNOLOGY, L.P. Patents By Year of Grant:	67	67
NSK LIMITED Patents By Year of Grant:	67	67

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
OKI ELECTRIC INDUSTRY CO., LTD. Patents By Year of Grant:	67	67
BAXTER INTERNATIONAL INC. Patents By Year of Grant:	66	66
COLGATE-PALMOLIVE COMPANY Patents By Year of Grant:	66	66
NIPPON TELEGRAPH & TELEPHONE CORP. Patents By Year of Grant:	66	66
UNISIA JECS CORPORATION Patents By Year of Grant:	66	66
BRITISH TECHNOLOGY GROUP LIMITED Patents By Year of Grant:	65	65
NORTHERN TELECOM LIMITED Patents By Year of Grant:	64	64
STANFORD UNIVERSITY, LELAND JUNIOR, THE BOARD OF TRUSTEES OF Patents By Year of Grant:	64	64
BETZDEARBORN INC. Patents By Year of Grant:	63	63
MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG Patents By Year of Grant:	63	63
MERRELL PHARMACEUTICALS INC. Patents By Year of Grant:	63	63
OWENS-CORNING FIBERGLAS TECHNOLOGY, INC. Patents By Year of Grant:	63	63
ROHM AND HAAS COMPANY Patents By Year of Grant:	63	63
THOMSON CONSUMER ELECTRONICS, INC. Patents By Year of Grant:	63	63
VICTOR COMPANY OF JAPAN, LIMITED Patents By Year of Grant:	63	63
MAZDA MOTOR CORPORATION Patents By Year of Grant:	62	62

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
TORAY INDUSTRIES INC.		
Patents By Year of Grant:	62	62
WISCONSIN ALUMNI RESEARCH FOUNDATION		
Patents By Year of Grant:	62	62
ALCON LABORATORIES, INC.		
Patents By Year of Grant:	61	61
BOEHRINGER MANNHEIM G.M.B.H.		
Patents By Year of Grant:	61	61
DAI NIPPON PRINTING CO. LTD		
Patents By Year of Grant:	61	61
IMPERIAL CHEMICAL INDUSTRIES PLC		
Patents By Year of Grant:	61	61
ETHICON, INC.		
Patents By Year of Grant:	60	60
POLAROID CORPORATION		
Patents By Year of Grant:	60	60
UOP		
Patents By Year of Grant:	60	60
RHONE-POULENC RORER, S.A.		
Patents By Year of Grant:	59	59
XILINX, INC.		
Patents By Year of Grant:	59	59
ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE		
Patents By Year of Grant:	58	58
HENKEL CORPORATION		
Patents By Year of Grant:	58	58
SANSHIN KOGYO KABUSHIKI KAISHA		
Patents By Year of Grant:	58	58
MITSUBISHI JUKOGYO KABUSHIKI KAISHA		
Patents By Year of Grant:	57	57
SANDOZ LTD.		
Patents By Year of Grant:	57	57

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
BABCOCK & WILCOX COMPANY		
Patents By Year of Grant:	56	56
GAS RESEARCH INSTITUTE		
Patents By Year of Grant:	56	56
AMOCO CORPORATION		
Patents By Year of Grant:	55	55
AVERY DENNISON CORPORATION		
Patents By Year of Grant:	55	55
BEHRINGWERKE AKTIENGESELLSCHAFT		
Patents By Year of Grant:	55	55
DEERE + COMPANY		
Patents By Year of Grant:	55	55
OSRAM SYLVANIA INC.		
Patents By Year of Grant:	55	55
SUMITOMO RUBBER INDUSTRIES, LTD.		
Patents By Year of Grant:	55	55
UNIVERSITY OF PENNSYLVANIA		
Patents By Year of Grant:	55	55
VALMET CORP.		
Patents By Year of Grant:	55	55
CASIO COMPUTER CO. LTD.		
Patents By Year of Grant:	54	54
EBARA CORPORATION		
Patents By Year of Grant:	54	54
LUCAS INDUSTRIES PUBLIC LTD. COMPANY		
Patents By Year of Grant:	54	54
NATIONAL SCIENCE COUNCIL		
Patents By Year of Grant:	54	54
OTIS ELEVATOR COMPANY		
Patents By Year of Grant:	54	54
W. L. GORE ASSOCIATES, INC.		
Patents By Year of Grant:	54	54

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
LEVER BROS. CO., DIVISION OF CONOPCO, INC.		
Patents By Year of Grant:	53	53
UNIVERSITY OF MICHIGAN		
Patents By Year of Grant:	53	53
VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION		
Patents By Year of Grant:	53	53
DAIKIN INDUSTRIES LIMITED		
Patents By Year of Grant:	52	52
MCDONNELL DOUGLAS CORP.		
Patents By Year of Grant:	52	52
THOMSON-CSF		
Patents By Year of Grant:	52	52
TOYODA GOSEI KABUSHIKI KAISHA		
Patents By Year of Grant:	52	52
CYPRESS SEMICONDUCTOR CORP.		
Patents By Year of Grant:	51	51
FANUC LTD.		
Patents By Year of Grant:	51	51
HAMAMATSU PHOTONICS KABUSHIKI KAISHA		
Patents By Year of Grant:	51	51
HOECHST MARION ROUSSEL, INC.		
Patents By Year of Grant:	51	51
YKK CORPORATION		
Patents By Year of Grant:	51	51
CORNELL RESEARCH FOUNDATION INC.		
Patents By Year of Grant:	50	50
TEKTRONIX INC.		
Patents By Year of Grant:	50	50
AKTIEBOLAGET ASTRA		
Patents By Year of Grant:	49	49
ITT AUTOMOTIVE EUROPE GMBH		
Patents By Year of Grant:	49	49

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
JOHNSON & JOHNSON VISION PRODUCTS, INC. Patents By Year of Grant:	49	49
MERCK SHARP & DOHME LIMITED Patents By Year of Grant:	49	49
PRAXAIR TECHNOLOGY, INC. Patents By Year of Grant:	49	49
SEIKO INSTRUMENTS INC. Patents By Year of Grant:	49	49
ALLEN-BRADLEY COMPANY Patents By Year of Grant:	48	48
BELL ATLANTIC NETWORK SERVICES, INC. Patents By Year of Grant:	48	48
DEGUSSA AKTIENGESELLSCHAFT Patents By Year of Grant:	48	48
ASAHI GLASS COMPANY, LTD. Patents By Year of Grant:	47	47
ELF ATOCHEM S.A. Patents By Year of Grant:	47	47
JOHNS HOPKINS UNIVERSITY Patents By Year of Grant:	47	47
LOCKHEED MARTIN CORPORATION Patents By Year of Grant:	47	47
MANNESMANN AG Patents By Year of Grant:	47	47
NOKIA TELECOMMUNICATIONS OY Patents By Year of Grant:	47	47
RESEARCH CORPORATION TECHNOLOGIES, INC. Patents By Year of Grant:	47	47
RIVERWOOD INTERNATIONAL CORPORATION Patents By Year of Grant:	47	47
SANOFI, S.A. Patents By Year of Grant:	47	47

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
SCHLUMBERGER TECHNOLOGY CORPORATION		
Patents By Year of Grant:	47	47
TELJIN LIMITED		
Patents By Year of Grant:	47	47
ADIR ET COMPAGNIE		
Patents By Year of Grant:	46	46
ASEA BROWN BOVERI AKTIENGESELLSCHAFT		
Patents By Year of Grant:	46	46
AT&T CORP.		
Patents By Year of Grant:	46	46
CALIFORNIA INSTITUTE OF TECHNOLOGY		
Patents By Year of Grant:	46	46
GENERAL HOSPITAL CORPORATION		
Patents By Year of Grant:	46	46
NORITSU KENKYU CENTER CO., LTD.		
Patents By Year of Grant:	46	46
PACESETTER, INC.		
Patents By Year of Grant:	46	46
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE		
Patents By Year of Grant:	46	46
NESTEC, S.A.		
Patents By Year of Grant:	45	45
QUALCOMM, INC.		
Patents By Year of Grant:	45	45
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK		
Patents By Year of Grant:	45	45
TRIMBLE NAVIGATION, LTD.		
Patents By Year of Grant:	45	45
BLACK & DECKER INC.		
Patents By Year of Grant:	44	44
BORG-WARNER AUTOMOTIVE, INC.		
Patents By Year of Grant:	44	44

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
KYOWA HAKKO KOGYO CO., LTD Patents By Year of Grant:	44	44
SCHERING AKTIENGESELLSCHAFT Patents By Year of Grant:	44	44
SYMBOL TECHNOLOGIES, INC. Patents By Year of Grant:	44	44
TOYODA JIDOSHOKKI SEISAKUSHO KABUSHIKI KAISHA Patents By Year of Grant:	44	44
ZEXEL CORPORATION Patents By Year of Grant:	44	44
IMATION CORP. Patents By Year of Grant:	43	43
MARTIN-MARIETTA CORPORATION Patents By Year of Grant:	43	43
RISO KAGAKU CORPORATION Patents By Year of Grant:	43	43
SAMSUNG DISPLAY DEVICES CO., LTD. Patents By Year of Grant:	43	43
ETHICON ENDO-SURGERY Patents By Year of Grant:	42	42
ISIS PHARMACEUTICALS, INC. Patents By Year of Grant:	42	42
JANSSEN PHARMACEUTICA N.V. Patents By Year of Grant:	42	42
KABUSHIKI KAISHA KOMATSU SEISAKUSHO Patents By Year of Grant:	42	42
KOBE STEEL LTD. Patents By Year of Grant:	42	42
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE Patents By Year of Grant:	42	42
DAIWA SEIKO INC Patents By Year of Grant:	41	41

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
MICHIGAN STATE UNIVERSITY		
Patents By Year of Grant:	41	41
MOORE BUSINESS FORMS INC.		
Patents By Year of Grant:	41	41
NATIONAL STARCH AND CHEMICAL INVESTMENT HOLDING CORPORATION		
Patents By Year of Grant:	41	41
SANKYO SEIKI MFG. CO., LTD.		
Patents By Year of Grant:	41	41
SILICON GRAPHICS, INC.		
Patents By Year of Grant:	41	41
ADVANTEST CORP.		
Patents By Year of Grant:	40	40
CARRIER CORPORATION		
Patents By Year of Grant:	40	40
COOPER INDUSTRIES INC.		
Patents By Year of Grant:	40	40
DAINIPPON SCREEN MFG. CO., LTD.		
Patents By Year of Grant:	40	40
TOKAI RIKA DENKI SEISAKUSHO K.K.		
Patents By Year of Grant:	40	40
WESTERN ATLAS INTERNATIONAL, INC.		
Patents By Year of Grant:	40	40
AGFA-GEVAERT, AG		
Patents By Year of Grant:	39	39
EMERSON ELECTRIC CO.		
Patents By Year of Grant:	39	39
KOITO MANUFACTURING COMPANY LIMITED		
Patents By Year of Grant:	39	39
PORSCHE AG		
Patents By Year of Grant:	39	39
UNIVERSITY OF NORTH CAROLINA		
Patents By Year of Grant:	39	39

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
VOITH SULZER PAPIERMASCHINEN GMBH		
Patents By Year of Grant:	39	39
WACKER-CHEMIE GMBH		
Patents By Year of Grant:	39	39
ALZA CORPORATION		
Patents By Year of Grant:	38	38
COBE LABORATORIES, INC.		
Patents By Year of Grant:	38	38
HALLIBURTON CO.		
Patents By Year of Grant:	38	38
HILTI AKTIENGESELLSCHAFT		
Patents By Year of Grant:	38	38
HITACHI KOKI COMPANY, LIMITED		
Patents By Year of Grant:	38	38
SANDIA CORPORATION		
Patents By Year of Grant:	38	38
SANKYO COMPANY LIMITED		
Patents By Year of Grant:	38	38
SHIN-ETSU HANDOTAI CO., LTD.		
Patents By Year of Grant:	38	38
SIEMENS MEDICAL SYSTEMS, INC.		
Patents By Year of Grant:	38	38
THE BOC GROUP PLC		
Patents By Year of Grant:	38	38
AJINOMOTO COMPANY INCORPORATED		
Patents By Year of Grant:	37	37
AT&T GLOBAL INFORMATION SOLUTIONS COMPANY		
Patents By Year of Grant:	37	37
BRITISH TELECOMMUNICATION, PLC		
Patents By Year of Grant:	37	37
CHEVRON CHEMICAL COMPANY		
Patents By Year of Grant:	37	37

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
CHISSO CORPORATION		
Patents By Year of Grant:	37	37
EISAI CO., LTD.		
Patents By Year of Grant:	37	37
FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANTEN FORSCHUNG E.V.		
Patents By Year of Grant:	37	37
FUJI JUKOGYO KABUSHIKI KAISHA		
Patents By Year of Grant:	37	37
INGERSOLL-RAND COMPANY		
Patents By Year of Grant:	37	37
KUREHA CHEMICAL INDUSTRY CO., LTD.		
Patents By Year of Grant:	37	37
M.A.N. ROLAND DRUCKMASCHINEN AG		
Patents By Year of Grant:	37	37
UNIVERSITY OF WASHINGTON		
Patents By Year of Grant:	37	37
ALBEMARLE CORPORATION		
Patents By Year of Grant:	36	36
CORDIS CORPORATION		
Patents By Year of Grant:	36	36
CYTEC TECHNOLOGY CORP.		
Patents By Year of Grant:	36	36
FRANCE TELECOM		
Patents By Year of Grant:	36	36
IOWA STATE UNIVERSITY RESEARCH FOUNDATION INC.		
Patents By Year of Grant:	36	36
NORDSON CORPORATION		
Patents By Year of Grant:	36	36
NTN CORPORATION		
Patents By Year of Grant:	36	36
TRISTRATA TECHNOLOGY, INC.		
Patents By Year of Grant:	36	36

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
WESTINGHOUSE AIR BRAKE COMPANY		
Patents By Year of Grant:	36	36
BELL COMMUNICATIONS RESEARCH, INC.		
Patents By Year of Grant:	35	35
COLUMBIA UNIVERSITY		
Patents By Year of Grant:	35	35
DAICEL CHEMICAL INDUSTRIES LTD.		
Patents By Year of Grant:	35	35
DOW CORNING TORAY SILICONE COMPANY LIMITED		
Patents By Year of Grant:	35	35
FUJISAWA PHARMACEUTICAL CO., LTD.		
Patents By Year of Grant:	35	35
HERCULES INCORPORATED		
Patents By Year of Grant:	35	35
HUELS AKTIENGESELLSCHAFT		
Patents By Year of Grant:	35	35
KYOCERA CORPORATION		
Patents By Year of Grant:	35	35
L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE		
Patents By Year of Grant:	35	35
LITTON SYSTEMS INC.		
Patents By Year of Grant:	35	35
MCNEIL-PPC, INC.		
Patents By Year of Grant:	35	35
NIPPON PAINT CO., LTD.		
Patents By Year of Grant:	35	35
SANDVIK AKTIEBOLAG		
Patents By Year of Grant:	35	35
SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION "S.N.E.C.M.A."		
Patents By Year of Grant:	35	35
VARIAN ASSOCIATES, INC.		
Patents By Year of Grant:	35	35

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
AMERICAN HOME PRODUCTS CORPORATION		
Patents By Year of Grant:	34	34
BELOIT TECHNOLOGIES, INC.		
Patents By Year of Grant:	34	34
BRAUN A.G.		
Patents By Year of Grant:	34	34
CUMMINS ENGINE CO., INC.		
Patents By Year of Grant:	34	34
ISP INVESTMENTS INC.		
Patents By Year of Grant:	34	34
ITT CORPORATION		
Patents By Year of Grant:	34	34
NALCO CHEMICAL COMPANY		
Patents By Year of Grant:	34	34
NKK CORPORATION		
Patents By Year of Grant:	34	34
QUANTUM CORP. (LA)		
Patents By Year of Grant:	34	34
RAYCHEM CORPORATION		
Patents By Year of Grant:	34	34
SHIMANO INC.		
Patents By Year of Grant:	34	34
SMITHKLINE BEECHAM PLC		
Patents By Year of Grant:	34	34
BOC GROUP, INC.		
Patents By Year of Grant:	33	33
ELECTRIC POWER RESEARCH INSTITUTE, INC.		
Patents By Year of Grant:	33	33
GLAXO WELLCOME INC.		
Patents By Year of Grant:	33	33
KOMATSU LTD.		
Patents By Year of Grant:	33	33

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
MCI COMMUNICATIONS CORP.		
Patents By Year of Grant:	33	33
MITSUBISHI GAS-CHEMICAL COMPANY, INC.		
Patents By Year of Grant:	33	33
ROLLS-ROYCE PLC		
Patents By Year of Grant:	33	33
SEXTANT AVIONIQUE		
Patents By Year of Grant:	33	33
SQUARE D COMPANY		
Patents By Year of Grant:	33	33
GEN-PROBE INCORPORATED		
Patents By Year of Grant:	32	32
GOLD STAR ELECTRON CO., LTD.		
Patents By Year of Grant:	32	32
HUBBELL INCORPORATED		
Patents By Year of Grant:	32	32
LEXMARK INTERNATIONAL, INC.		
Patents By Year of Grant:	32	32
MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA		
Patents By Year of Grant:	32	32
PALL CORPORATION		
Patents By Year of Grant:	32	32
SCI-MED LIFE SYSTEMS, INC.		
Patents By Year of Grant:	32	32
UNIVERSITY OF MINNESOTA, THE REGENTS OF		
Patents By Year of Grant:	32	32
ALUMINUM COMPANY OF AMERICA		
Patents By Year of Grant:	31	31
GENERAL INSTRUMENT CORPORATION		
Patents By Year of Grant:	31	31
NEUROGEN CORPORATION		
Patents By Year of Grant:	31	31

PATENTING BY ORGANIZATIONS (CY 1997)

---- Organizational Patenting

(Granted: Jan 01, 1997 - Dec 31, 1997) ---- Ranked List of Organizations with 30 or More Patents ----

	1997	TOTAL
NITTO DENKO CORPORATION		
Patents By Year of Grant:	31	31
PICKER INTERNATIONAL, INC.		
Patents By Year of Grant:	31	31
THOMAS + BETTS CORPORATION		
Patents By Year of Grant:	31	31
ZENITH ELECTRONICS CORPORATION		
Patents By Year of Grant:	31	31
ASGROW SEED COMPANY		
Patents By Year of Grant:	30	30
CHARTERED SEMICONDUCTOR MANUFACTURING PTE LTD		
Patents By Year of Grant:	30	30
LUBRIZOL CORPORATION		
Patents By Year of Grant:	30	30
MITSUBISHI MATERIALS CORPORATION		
Patents By Year of Grant:	30	30
SALK INSTITUTE FOR BIOLOGICAL STUDIES		
Patents By Year of Grant:	30	30
SAMSUNG AEROSPACE INDUSTRIES, LTD.		
Patents By Year of Grant:	30	30
Other Organizations (19143)		
Patents By Year of Grant:	44898	44898