

IPO Statistical Series, 1999 - No. 2
 Top 300 Organizations Receiving U.S. Patents in 1998
 Alphabetical by Company Name

<u>Organization</u>	<u>Patents</u>	<u>Rank</u>
Advanced Micro Devices, Inc.	556	24
Advantest Corp.	80	189
Agency of Industrial Science & Technology	71	221
Agfa-Gevaert N.V.	141	99
Air Products and Chemicals, Inc.	80	190
Aisin AW Co., Ltd.	77	201
Aisin Seiki K.K.	116	130
Ajinomoto Co., Inc.	53	300
Aktiebolaget Astra	63	250
Akzo Nobel N.V.	105	143
Alcatel N.V.	99	149
Allergan, Inc.	70	225
Allied-Signal Inc.	140	101
Alps Electric Co., Ltd.	99	150
Aluminum Company of America	53	300
American Cyanamid Co.	112	132
Amoco Corp.	67	232
Analog Devices, Inc.	69	227
Apple Computer, Inc.	270	49
Applied Materials, Inc.	176	73
Arco Chemical Technology, L.P.	59	271
Asahi Glass Company, Ltd.	64	244
Asahi Kogaku Kogyo K.K.	277	48
Asea Brown Boveri A.G.	94	159
AT&T Corp.	150	92
Avery Dennison Corp.	57	283
Baker Hughes Inc.	97	152
BASF A.G.	399	31
BASF Corp.	95	158
Baxter International, Inc.	96	155
Bayer A.G.	381	36
Bayer Corp.	140	102
Becton, Dickinson and Co.	157	88
Bell Atlantic Network Services, Inc.	65	240
Berg Technology, Inc.	53	300
Black & Decker Inc.	73	215
Boehringer Mannheim GmbH	80	191
Boeing Co.	157	89
Bridgestone Corp.	85	177

Bridgestone Sports Co., Ltd.	57	284
Bristol-Myers Squibb Co.	137	105
British Telecommunication, PLC	73	216
Brother Kogyo K.K.	209	63
California Institute of Technology	93	163
Canon K.K.	1928	2
Carrier Corp.	65	241
Casio Computer Co., Ltd.	74	212
Caterpillar Inc.	197	67
Chiron Corp.	81	186
Chrysler Motors Corp.	166	78
CIBA Specialty Chemicals Corp.	164	81
Cirrus Logic, Inc.	128	111
Colgate-Palmolive Co.	110	135
Columbia University	55	291
Commissariat A L'Energie Atomique	88	170
Compaq Computer Corp.	245	51
Cordis Corp.	63	251
Cornell Research Foundation Inc.	64	245
Corning Inc.	72	218
Cypress Semiconductor Corp.	105	144
Daewoo Electronics Co., Ltd.	327	40
Dai Nippon Printing Co., Ltd.	103	146
Daicel Chemical Industries Ltd.	54	296
Daikin Industries Ltd.	60	266
Daimler-Benz A.G.	241	53
Daimler-Benz Aerospace Airbus GmbH	53	300
Dana Corp.	82	184
Deere and Co.	70	226
Degussa A.G.	63	252
Delco Electronics Corp.	94	160
Dell USA, L.P.	109	136
Denso Corp.	124	113
Digital Equipment Corp.	164	82
Dow Chemical Co.	174	74
Dow Corning Corp.	108	137
E. I. Du Pont de Nemours & Co.	393	33
Eastman Chemical Corp.	63	253
Eastman Kodak Co.	1124	9
Eaton Corp.	164	83
Ebara Corp.	75	207
Electronic Data Systems Corp.	56	288
Electronics and Telecommunications Research	120	119
Elf Atochem S.A.	61	262
Eli Lilly and Co.	180	70

EMC Corp.	59	272
Emerson Electric Co.	57	285
Ericsson, Inc.	210	62
Ethicon, Inc.	55	292
Exxon Chemicals Patents Inc.	119	124
Exxon Research and Engineering Co.	105	145
Fanuc Ltd.	71	222
Fichtel and Sachs A.G.	74	213
FMC Corp.	97	153
Ford Motor Co.	461	27
France Telecom	63	254
Fuji Electric Co., Ltd.	87	173
Fuji Photo Film Co., Ltd.	547	26
Fuji Photo Optical Co., Ltd.	102	147
Fuji Xerox Co., Ltd.	278	47
Fujitsu, Ltd.	1189	7
G.D. Searle & Co.	60	267
Gas Research Institute	62	257
Genentech, Inc.	133	106
General Electric Co.	729	16
General Hospital Corp.	62	258
General Motors Corp.	308	43
Goodyear Tire and Rubber Co.	108	138
Halliburton Energy Services	75	208
Harris Corp.	124	114
Heidelberger Druckmaschinen A.G.	129	108
Henkel Corp.	153	91
Hewlett-Packard Co.	805	14
Hitachi, Ltd.	1094	10
Hoechst A.G.	334	39
Hoechst Celanese Corp.	68	230
Hoffmann-La Roche Inc.	72	219
Honda Motor Co., Ltd.	389	34
Honeywell Inc.	123	115
Huels A.G.	53	300
Hughes Electronic Devices Corp.	142	97
Hughes Electronics Corp.	107	141
Hyundai Electronics Industries Co., Ltd.	212	61
Hyundai Motor Co., Ltd.	92	165
IBM Corp.	2657	1
Illinois Tool Works Inc.	120	120
Imperial Chemical Industries PLC	63	255
Incyte Pharmaceuticals, Inc.	107	142
Industrial Technology Research Institute, Taiwan	218	56
Institut Francias du Petrole	142	98

Integrated Device Technology, Inc.	66	235
Intel Corp.	701	18
Iowa State University Research Foundation	53	300
Johns Hopkins University	78	196
KAO Corp.	129	109
Kawasaki Steel Corp.	58	278
Kimberly-Clark Worldwide, Inc.	161	86
Kobe Steel Ltd.	66	236
Komatsu Ltd.	74	214
Konica Corp.	166	79
Lear Corp.	61	263
Lever Bros. Co., Division of Conopco, Inc.	64	246
Lexmark International, Inc.	55	293
LG Electronics Inc.	215	60
Lg Semicon Co., Ltd.	234	54
Litton Systems Inc.	58	279
Lockheed Martin Corp.	108	139
L'Oreal S.A.	182	69
LSI Logic Corp.	229	55
Lucas Industries Public Ltd. Co.	58	280
Lucent Technologies Inc.	928	13
M.A.N. Roland Druckmaschinen A.G.	54	297
Mannesmann A.G.	59	273
Massachusetts Institute of Technology	138	103
Matsushita Electric Industrial Co., Ltd.	1034	12
Matsushita Electronics Corp.	55	294
Mazda Motor Corp.	66	237
McDonnell Douglas Corp.	111	134
MCI Communications Corp.	117	127
Medtronic, Inc.	243	52
Merck & Co., Inc.	178	71
Merck Patent GmbH	99	151
Michigan State University	59	274
Micron Technology, Inc.	579	21
Microsoft Corp.	341	38
Minnesota Mining and Manufacturing Co.	554	25
Minolta Camera Co., Ltd.	305	44
MITA Industrial Co., Ltd.	154	90
Mitsubishi Chemical Corp.	121	118
Mitsubishi Denki K.K.	1080	11
Mitsubishi Jidosha Kogyo K.K.	65	242
Mitsubishi Jukogyo K.K.	58	281
Mitsui Petrochemical Industries Ltd.	57	286
Mobil Oil Corp.	67	233

Molex Inc.	79	193
Monsanto Co.	77	202
Morton International, Inc.	83	179
Motorola, Inc.	1406	4
Murata Manufacturing Co., Ltd.	217	58
National Science Council	75	209
National Semiconductor Corp.	178	72
NCR Corp.	167	77
NEC Corp.	1627	3
Nestec, S.A.	67	234
NGK Insulators, Ltd.	92	166
Nikon Corp.	575	22
Nippon Steel Corp.	94	161
Nippon Telegraph & Telephone Corp.	88	171
Nippondenso Co., Ltd.	312	42
Nissan Motor Co., Ltd.	164	84
Nokia Mobile Phones (U.K.) Ltd.	55	295
Nokia Mobile Phones Ltd.	54	298
Nokia Telecommunications OY	93	164
Noritsu Koki Co., Ltd.	79	194
Northern Telecom, Ltd.	199	65
Northrop Grumman Corp.	197	68
Novartis Corp.	78	197
Novo Nordisk A/S	122	116
NSK Ltd.	60	268
OKI Electric Industry Co., Ltd.	120	121
Olympus Optical Co., Ltd.	290	46
Omron Corp.	53	300
Oracle Corp.	58	282
Otis Elevator Company	86	176
Owens-Corning Fiberglass Technology, Inc.	68	231
Pacesetter, Inc.	87	174
Pfizer, Inc.	117	128
Philips Electronics North America Corp.	118	125
Phillips Petroleum Co.	75	210
Pioneer Electronic Corp.	141	100
Pioneer Hi-Bred International, Inc.	108	140
Pitney-Bowes, Inc.	120	122
Polaroid Corp.	60	269
PPG Industries Inc.	97	154
Praxair Technoogy, Inc.	64	247
Procter and Gamble Co.	454	28
Qualcomm, Inc.	82	185
Quantum Corp.	60	270
Raytheon Co.	117	129

Research Corporation Technologies, Inc.	56	289
Rhone-Poulenc Chimie	80	192
Ricoh Co., Ltd.	406	30
Robert Bosch GmbH	348	37
Rockwell International Corp.	77	203
Rohm and Haas Co.	71	223
Rohm Co., Ltd.	112	133
Samsung Display Devices Co., Ltd.	84	178
Samsung Electronics Co., Ltd	1304	6
Sandia Corp.	76	205
Sanshin Kogyo K.K.	83	180
Sanyo Electric Co., Ltd.	256	50
Schering Corp.	78	198
Sci-Med Life Systems, Inc.	53	300
Scripps Research Institute	57	287
Seagate Technology	163	85
Seiko Epson Corp.	316	41
Seiko Instruments Inc.	59	275
Semiconductor Energy Laboratory Co., Ltd.	127	112
SGS-Thompson Microelectronics, Inc.	81	187
SGS-Thomson Microelectronics S.A.	118	126
SGS-Thomson Microelectronics, Inc.	174	75
Sharp K.K.	560	23
Shell Oil Co.	143	96
Shimano Inc.	62	259
Shin Etsu Chemical Co., Ltd.	96	156
Shin-Etsu Handotai Co., Ltd.	65	243
Siemens A.G.	626	19
Silicon Graphics, Inc.	90	168
SmithKline Beecham Corp.	94	162
Societe Nationale Industrielle Aerospatiale	61	264
Sony Corp.	1316	5
Southpac Trust International, Inc.	89	169
Stanford University, Leland Junior, Board of Trustees	79	195
Sumitomo Chemical Co., Ltd.	148	94
Sumitomo Electric Industries Co., Ltd.	158	87
Sumitomo Rubber Industries, Ltd.	76	206
Sumitomo Wiring Systems, Ltd.	132	107
Sun Microsystems, Inc.	423	29
Symbol Technologies, Inc.	64	248
Taiwan Semiconductor Manufacturing Co., Ltd.	218	57
Takeda Chemical Industries Ltd.	72	220
TDK Corp.	83	181
Tektronix Inc.	66	238

Telefonaktiebolaget L.M. Ericsson	204	64
Tetra Laval Holdings & Finance S.A.	87	175
Texas Instruments, Inc.	611	20
Thomson Consumer Electronics, Inc.	71	224
Thomson-CSF	66	239
Tokyo Electron Ltd.	101	148
Toshiba Corp.	1170	8
Toyoda Gosei K.K.	75	211
Toyoda Jidoshokki Seisakusho K.K.	78	199
Toyota Jidosha K.K.	387	35
Trimble Navigation, Ltd.	69	228
TRW Inc.	144	95
U.S. Philips Corp.	725	17
Union Carbide Corp.	62	260
Unisia Jecs Corp.	63	256
Unisys Corp.	122	117
United Microelectronics Corp.	174	76
United States Surgical Corp.	92	167
United Technologies Corp.	116	131
United Technologies Automotive, Inc.	61	265
University of California	395	32
University of Pennsylvania	69	229
University of Texas	96	157
UOP	88	172
Valeo S.A.	54	299
Valmet Corp.	64	249
Vanguard International Semiconductor Corp.	120	123
Victor Company of Japan, Ltd.	77	204
VLSI Technology, Inc.	150	93
Voith Sulzer Papiermaschinen GmbH	73	217
W.L. Gore Associates, Inc.	83	182
W.R. Grace & Co. - Conn.	56	290
Warner-Lambert Co.	62	261
Westinghouse Air Brake Co.	59	276
Westinghouse Electric Corp.	81	188
Whitaker Corp.	216	59
Winbond Electronics Corp.	59	277
Wisconsin Alumni Research Foundation	83	183
Xerox Corp.	769	15
Xilinx, Inc.	78	200
Yamaha Corp.	198	66
Yamaha Motor Co., Ltd.	129	110
Yazaki Corp.	304	45
Zeneca Ltd.	138	104

NOTE: IPO compiled this list from data obtained from the U.S. Patent & Trademark Office. The numbers are patents issued during 1998 for which an assignment of title was recorded in the Office when the patent was issued. Patents in the names of subsidiaries, other related companies, or divisions normally are not combined with patents in the name of the parent. Agencies of the U.S. Government that received patents are not included. For annual lists back to 1984, see "Documents" on www.ipo.org.