

REISSUE PATENTS  
JANUARY 1977 -- DECEMBER 2003



March 2004  
U.S. PATENT AND TRADEMARK OFFICE  
OFFICE OF ELECTRONIC INFORMATION PRODUCTS/PTMD  
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*A PATENT TECHNOLOGY MONITORING DIVISION REPORT*

Reissue Patents Report  
1/1977 - 12/2003  
Explanation of Data

This Patent Technology Monitoring Division (PTMD) Program Report profiles patent activity for U.S. reissue patents (hereafter referred to as patents) granted between **1977 and December 2003**. The source of the data used for this report is the PTMD database maintained by the Information Products Division.

Data Distribution By Date of Grant and By Date of Application

**Parts A1 and A2**

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1990" column corresponds to the period **January 1, 1977 through December 31, 1989**.

**Part B**

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 25% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.\* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 2003**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in years such as 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is

determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

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Parts of the Report

**Parts A1 and A2** present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. 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 this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

**Part B** is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received 5 or more U.S. reissue patents since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

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\* As of **December 31, 2003**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 92% complete for patent applications filed in 1999 and 76% complete for applications filed in 2000 and 50% complete for 2001 filings. They are essentially complete for applications filed prior to 1999. Currently, completion percentages restricted to reissue patents are not available.

Part A1

Patent Grants As Distributed By Year of Patent Grant

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	NUMBER OF PATENTS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
<b>Total</b>	4008	370	263	360	332	317	316	279	277	298	448	524	480	461	421	9154
U.S. Origin	2871	241	171	231	207	194	208	175	173	195	274	331	266	263	222	6022
Foreign Origin	1137	129	92	129	125	123	108	104	104	103	174	193	214	198	199	3132
JAPAN	367	58	53	66	61	59	61	49	51	48	86	112	98	87	98	1354
GERMANY	220	15	8	19	13	18	9	9	10	15	20	13	23	23	21	436
UNITED KINGDOM	160	12	4	10	16	11	6	11	8	8	8	13	11	18	8	304
FRANCE	72	9	5	4	9	7	3	9	5	7	14	7	15	10	18	194
CANADA	57	9	6	5	6	9	5	5	4	7	8	10	11	11	16	169
ITALY	29	3	3	1	1	2	4	4	13	4	14	4	15	5	6	108
NETHERLANDS	46	2	5	6	3		4	3	2	1	4	1	4	3	4	88
SWEDEN	43	3	2	3	3	1	1	1	3	2	4		6	7	2	81
SWITZERLAND	41	6	3	4	2	2	3	5		1	1	4	4	2		78
AUSTRALIA	18	1	1	3	1	4	1	1	1	2	1	1	4	3	2	43
SOUTH KOREA					1		1	2	1		6	7	6	11	2	37
DENMARK	14	2		1	1	2			1	2	4	2	2		2	33
ISRAEL	9	3			1		1	2		4	1	4	2	4	2	33
TAIWAN	2			2	1	2	1		1			4	5	5	8	31
AUSTRIA	7	1		2	2	1	1			2	1	2	2	2	4	27
BELGIUM	12	2		1								2		3	3	23
NORWAY	13				1						1		1			16
FINLAND	4	1		1	1		2		1		1	1		1	2	15
NEW ZEALAND	5	2						1				1	3			12
SPAIN	1					2	1		1			1				6
SOUTH AFRICA	3				1							1		1		6
CHINA,HONG KONG S.A.R	1				1							1	1		1	5
INDONESIA	1						2	1								4
BRAZIL	2								1							3
LUXEMBOURG	1		1											1		3
RUSSIAN FEDERATION							1	1				1				3
HUNGARY	2															2
CZECHOSLOVAKIA	2															2
MEXICO	1									1						2
IRELAND			1						1							2
ARGENTINA						2										2
LIECHTENSTEIN	1						1									2
THAILAND				1												1
GREECE	1															1
CHILE	1															1
PERU						1										1
Others ( 4 )	1											1	1	1		4
<b>Ownership:</b>																
U.S. Corporations	2391	185	133	188	156	152	164	134	146	163	214	265	234	212	198	4935
U.S. Government	10		1	2	3	1	1		1		1	5	3			28
U.S. Individuals	554	61	44	47	52	45	49	46	33	39	66	64	43	58	32	1233
Foreign Corporations	896	107	78	112	105	110	96	91	92	93	158	180	180	179	179	2656
Foreign Government	11	3		2	3	1		1		1			1	1	1	25
Foreign Individuals	146	14	7	9	13	8	6	7	5	2	9	10	19	11	11	277

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	PERCENT OF PATENTS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	72	65	65	64	62	61	66	63	62	65	61	63	55	57	53	66
Foreign Origin	28	35	35	36	38	39	34	37	38	35	39	37	45	43	47	34
JAPAN	9	16	20	18	18	19	19	18	18	16	19	21	20	19	23	15
GERMANY	5	4	3	5	4	6	3	3	4	5	4	2	5	5	5	5
UNITED KINGDOM	4	3	2	3	5	3	2	4	3	3	2	2	2	4	2	3
FRANCE	2	2	2	1	3	2	1	3	2	2	3	1	3	2	4	2
CANADA	1	2	2	1	2	3	2	2	1	2	2	2	2	2	4	2
ITALY	1	1	1			1	1	1	5	1	3	1	3	1	1	1
NETHERLANDS	1	1	2	2	1		1	1	1		1		1	1	1	1
SWEDEN	1	1	1	1	1				1	1	1		1	2		1
SWITZERLAND	1	2	1	1	1	1	1	2				1	1			1
AUSTRALIA				1		1				1			1	1		0
SOUTH KOREA								1			1	1	1	2		0
DENMARK		1				1				1	1					0
ISRAEL		1						1		1		1		1		0
TAIWAN				1		1						1	1	1	2	0
AUSTRIA				1	1					1					1	0
BELGIUM		1												1	1	0
NORWAY																0
FINLAND							1									0
NEW ZEALAND		1											1			0
SPAIN						1										0
SOUTH AFRICA																0
CHINA,HONG KONG S.A.R																0
INDONESIA							1									0
BRAZIL																0
LUXEMBOURG																0
RUSSIAN FEDERATION																0
HUNGARY																0
CZECHOSLOVAKIA																0
MEXICO																0
IRELAND																0
ARGENTINA						1										0
LIECHTENSTEIN																0
THAILAND																0
GREECE																0
CHILE																0
PERU																0
Others ( 4 )																0
<b>Ownership:</b>																
U.S. Corporations	60	50	51	52	47	48	52	48	53	55	48	51	49	46	47	54
U.S. Government				1	1							1	1			0
U.S. Individuals	14	16	17	13	16	14	16	16	12	13	15	12	9	13	8	13
Foreign Corporations	22	29	30	31	32	35	30	33	33	31	35	34	38	39	43	29
Foreign Government		1		1	1											0
Foreign Individuals	4	4	3	3	4	3	2	3	2	1	2	2	4	2	3	3

Part A2

Patent Grants As Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	NUMBER OF PATENTED APPLICATIONS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
<b>Total</b>	4748	345	357	354	343	411	420	444	390	404	388	343	162	45		9154
U.S. Origin	3349	216	217	228	211	257	247	289	231	240	233	193	82	29		6022
Foreign Origin	1399	129	140	126	132	154	173	155	159	164	155	150	80	16		3132
JAPAN	505	68	65	64	61	74	85	82	81	81	81	67	31	9		1354
GERMANY	247	18	17	12	16	18	19	18	18	11	15	13	13	1		436
UNITED KINGDOM	184	8	9	13	13	11	12	11	9	12	10	9	3			304
FRANCE	85	10	7	6	7	9	17	9	5	9	7	11	11	1		194
CANADA	71	7	9	6	7	7	7	7	8	11	9	10	7	3		169
ITALY	35	1	3	4	5	12	16	4	10	4	9	3	1	1		108
NETHERLANDS	54	5	4	5	2	2	4	1	3	1	2	3	2			88
SWEDEN	48	3	3	1	2	1	5	3	5	3	5	1	1			81
SWITZERLAND	52	2	2	4	3	5	1	2	1	2	3	1				78
AUSTRALIA	20	2	6	1	1	2		4	1		2	4				43
SOUTH KOREA			1		3	2		4	6	9	4	7	1			37
DENMARK	15	1	3		2	2	2	3	1	2			2			33
ISRAEL	13	1		1	1	1	2	3	3	2	1	5				33
TAIWAN	3		2	2	2			1		5	6	7	3			31
AUSTRIA	8		2	3	1			3	1	2	1	4	1	1		27
BELGIUM	13	2							2	2		2	2			23
NORWAY	13			1			1									16
FINLAND	6	1	1	1	1	2				1		1	1			15
NEW ZEALAND	7			1		1			2			1				12
SPAIN	1		1		1	1	1		1							6
SOUTH AFRICA	3		1						1	1						6
CHINA, HONG KONG S.A.R	1			1						2		1				5
INDONESIA	1		1		1	1										4
BRAZIL	2						1									3
LUXEMBOURG	2												1			3
RUSSIAN FEDERATION					1	1				1						3
CZECHOSLOVAKIA	2															2
HUNGARY	2															2
LIECHTENSTEIN	1					1										2
IRELAND	1				1											2
ARGENTINA			1		1											2
MEXICO	1					1										2
CHILE	1															1
THAILAND				1												1
PERU			1													1
PORTUGAL	1															1
Others ( 4 )	1								1	2						4
<b>Ownership:</b>																
U.S. Corporations	2768	164	175	172	178	213	202	229	196	194	201	153	63	27		4935
U.S. Government	11	4	1	1	3		2	3	1	1		1				28
U.S. Individuals	668	53	50	57	40	55	50	64	39	49	42	44	20	2		1233
Foreign Corporations	1116	110	119	115	113	132	157	139	146	150	133	137	74	15		2656
Foreign Government	15	1	2	1	1		2	2				1				25
Foreign Individuals	170	13	10	8	8	11	7	7	8	10	12	8	4	1		277

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	71	63	61	64	62	63	59	65	59	59	60	56	51	64		66
Foreign Origin	29	37	39	36	38	37	41	35	41	41	40	44	49	36		34
JAPAN	11	20	18	18	18	18	20	18	21	20	21	20	19	20		15
GERMANY	5	5	5	3	5	4	5	4	5	3	4	4	8	2		5
UNITED KINGDOM	4	2	3	4	4	3	3	2	2	3	3	3	2			3
FRANCE	2	3	2	2	2	2	4	2	1	2	2	3	7	2		2
CANADA	1	2	3	2	2	2	2	2	2	3	2	3	4	7		2
ITALY	1		1	1	1	3	4	1	3	1	2	1	1	2		1
NETHERLANDS	1	1	1	1	1			1	1		1	1	1			1
SWEDEN	1	1	1		1		1	1	1	1			1			1
SWITZERLAND	1	1	1	1	1	1					1					1
AUSTRALIA		1	2					1			1	1				0
SOUTH KOREA					1			1	2	2	1	2	1			0
DENMARK			1		1			1					1			0
ISRAEL								1	1			1				0
TAIWAN			1	1	1					1	2	2	2			0
AUSTRIA			1	1				1				1	1	2		0
BELGIUM		1							1			1	1			0
NORWAY																0
FINLAND													1			0
NEW ZEALAND									1							0
SPAIN																0
SOUTH AFRICA																0
CHINA,HONG KONG S.A.R																0
INDONESIA																0
BRAZIL																0
LUXEMBOURG													1			0
RUSSIAN FEDERATION																0
CZECHOSLOVAKIA																0
HUNGARY																0
LIECHTENSTEIN																0
IRELAND																0
ARGENTINA																0
MEXICO																0
CHILE																0
THAILAND																0
PERU																0
PORTUGAL																0
Others ( 4 )																0
<b>Ownership:</b>																
U.S. Corporations	58	48	49	49	52	52	48	52	50	48	52	45	39	60		54
U.S. Government		1			1			1								0
U.S. Individuals	14	15	14	16	12	13	12	14	10	12	11	13	12	4		13
Foreign Corporations	24	32	33	32	33	32	37	31	37	37	34	40	46	33		29
Foreign Government			1										1			0
Foreign Individuals	4	4	3	2	2	3	2	2	2	2	3	2	2	2		3

**Part B**

**Ranked Listing of Organizations with Patent Grants**

**As Distributed By Year of Patent Grant**

**and As Distributed By Year of Patent Application**

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre																
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
<b>HITACHI, LTD</b>																	
Patents By Year of Grant:	32	13	7	7	13	4	4	3	4	7	0	7	7	6	8	122	
Patents By Year of Application:	57	10	14	8	1	1	6	8	3	3	5	4	2	0	0	122	
<b>GENERAL ELECTRIC COMPANY</b>																	
Patents By Year of Grant:	40	3	6	5	8	2	3	2	2	1	2	2	0	1	0	77	
Patents By Year of Application:	49	5	7	2	2	4	3	0	2	2	0	1	0	0	0	77	
<b>AT&amp;T CORP.</b>																	
Patents By Year of Grant:	41	4	5	1	2	4	2	0	0	0	0	1	0	0	0	60	
Patents By Year of Application:	50	1	1	6	1	0	0	1	0	0	0	0	0	0	0	60	
<b>INTERNATIONAL BUSINESS MACHINES CORPORATION</b>																	
Patents By Year of Grant:	20	1	1	7	0	2	1	3	1	0	6	5	5	2	5	59	
Patents By Year of Application:	28	2	4	1	1	3	5	6	2	2	2	2	1	0	0	59	
<b>MINNESOTA MINING AND MANUFACTURING COMPANY</b>																	
Patents By Year of Grant:	23	4	0	1	2	3	7	2	5	1	4	2	1	0	1	56	
Patents By Year of Application:	29	2	1	5	5	4	2	3	3	1	1	0	0	0	0	56	
<b>MITSUBISHI DENKI KABUSHIKI KAISHA</b>																	
Patents By Year of Grant:	4	5	2	1	3	6	2	3	4	1	7	9	0	2	2	51	
Patents By Year of Application:	9	4	5	5	5	1	6	6	4	4	0	1	1	0	0	51	
<b>MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.</b>																	
Patents By Year of Grant:	8	0	4	0	0	1	2	1	3	2	4	7	9	5	4	50	
Patents By Year of Application:	12	0	1	1	3	5	3	5	3	6	5	4	2	0	0	50	
<b>E. I. DU PONT DE NEMOURS AND COMPANY</b>																	
Patents By Year of Grant:	34	0	2	1	0	2	0	1	0	2	1	1	3	1	1	49	
Patents By Year of Application:	36	0	1	2	1	1	0	1	1	2	2	1	0	1	0	49	
<b>EASTMAN KODAK COMPANY</b>																	
Patents By Year of Grant:	34	1	0	2	0	1	1	1	0	5	0	1	0	1	2	49	
Patents By Year of Application:	36	1	1	0	0	3	0	3	3	0	1	0	1	0	0	49	
<b>SONY CORPORATION</b>																	
Patents By Year of Grant:	9	4	2	0	0	3	1	2	1	2	1	7	6	4	5	47	
Patents By Year of Application:	15	0	1	1	4	5	3	3	5	2	3	5	0	0	0	47	
<b>TOSHIBA CORPORATION</b>																	
Patents By Year of Grant:	3	0	0	2	0	2	3	1	1	5	4	11	4	4	2	42	
Patents By Year of Application:	4	1	0	2	4	2	7	2	6	9	3	2	0	0	0	42	



---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>EATON CORPORATION</b>																
Patents By Year of Grant:	21	0	1	0	1	1	0	0	0	1	0	2	1	1	0	29
Patents By Year of Application:	22	0	1	2	0	0	0	2	1	0	0	1	0	0	0	29
<b>DOW CHEMICAL COMPANY</b>																
Patents By Year of Grant:	20	1	1	1	0	3	0	0	1	0	0	0	1	0	0	28
Patents By Year of Application:	22	0	1	3	1	1	0	0	0	0	0	0	0	0	0	28
<b>XEROX CORPORATION</b>																
Patents By Year of Grant:	18	2	0	1	0	0	0	0	2	1	0	0	1	0	1	26
Patents By Year of Application:	21	0	0	0	0	0	3	0	0	0	1	0	0	1	0	26
<b>MOTOROLA, INC.</b>																
Patents By Year of Grant:	14	1	0	1	1	1	0	2	0	0	0	2	0	1	0	23
Patents By Year of Application:	15	1	1	1	1	1	1	0	1	1	0	0	0	0	0	23
<b>TEXAS INSTRUMENTS, INCORPORATED</b>																
Patents By Year of Grant:	7	3	1	1	1	1	2	2	0	0	1	3	0	0	1	23
Patents By Year of Application:	13	2	0	1	1	2	2	0	0	1	0	1	0	0	0	23
<b>ELI LILLY AND COMPANY</b>																
Patents By Year of Grant:	17	1	0	0	0	0	1	0	0	0	0	0	0	2	1	22
Patents By Year of Application:	18	0	0	1	0	0	0	0	0	0	3	0	0	0	0	22
<b>NEC CORPORATION</b>																
Patents By Year of Grant:	10	0	1	0	1	0	0	0	0	2	2	1	2	2	0	21
Patents By Year of Application:	10	1	1	0	0	1	1	0	2	1	3	1	0	0	0	21
<b>ALLIED-SIGNAL INC.</b>																
Patents By Year of Grant:	13	1	0	0	1	1	2	1	0	0	0	0	0	1	0	20
Patents By Year of Application:	14	0	1	1	1	1	1	0	0	0	0	1	0	0	0	20
<b>BASF AKTIENGESELLSCHAFT</b>																
Patents By Year of Grant:	8	2	0	2	0	1	1	2	0	0	0	1	0	3	0	20
Patents By Year of Application:	10	2	0	1	1	2	1	2	0	0	0	0	1	0	0	20
<b>OLYMPUS OPTICAL CO., LTD.</b>																
Patents By Year of Grant:	2	0	1	3	1	1	1	0	1	0	2	1	3	2	2	20
Patents By Year of Application:	3	3	3	0	1	0	1	0	1	1	4	2	1	0	0	20
<b>SIEMENS AKTIENGESELLSCHAFT</b>																
Patents By Year of Grant:	7	0	1	1	0	0	1	0	0	0	3	0	0	2	5	20
Patents By Year of Application:	9	0	0	0	1	0	1	1	1	0	0	1	5	1	0	20

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre																
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
<b>EXXON RESEARCH + ENGINEERING CO.</b>																	
Patents By Year of Grant:	11	1	0	0	0	0	1	0	1	0	0	0	3	2	0	19	
Patents By Year of Application:	12	0	0	0	2	0	0	0	0	5	0	0	0	0	0	19	
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY</b>																	
Patents By Year of Grant:	7	0	0	1	0	1	1	0	0	1	3	1	3	1	0	19	
Patents By Year of Application:	7	1	1	1	1	2	2	2	0	0	2	0	0	0	0	19	
<b>MINOLTA CAMERA CO., LTD.</b>																	
Patents By Year of Grant:	7	1	0	1	4	2	0	0	2	0	1	0	0	0	1	19	
Patents By Year of Application:	9	1	4	1	1	0	2	0	1	0	0	0	0	0	0	19	
<b>MOBIL OIL CORP.</b>																	
Patents By Year of Grant:	14	0	1	1	2	0	0	0	0	0	0	1	0	0	0	19	
Patents By Year of Application:	15	0	3	0	0	1	0	0	0	0	0	0	0	0	0	19	
<b>PHILLIPS PETROLEUM COMPANY</b>																	
Patents By Year of Grant:	13	1	1	0	2	0	0	0	0	0	0	0	0	2	0	19	
Patents By Year of Application:	14	1	1	1	0	0	0	2	0	0	0	0	0	0	0	19	
<b>SGS-THOMSON MICROELECTRONICS S.R.L.</b>																	
Patents By Year of Grant:	0	0	0	0	0	0	2	1	8	3	3	2	0	0	0	19	
Patents By Year of Application:	0	0	0	2	1	6	7	2	1	0	0	0	0	0	0	19	
<b>UNITED TECHNOLOGIES CORPORATION</b>																	
Patents By Year of Grant:	11	0	1	3	0	0	0	0	0	1	1	1	0	0	1	19	
Patents By Year of Application:	12	3	0	0	0	0	0	1	0	1	2	0	0	0	0	19	
<b>SAMSUNG ELECTRONICS CO., LTD.</b>																	
Patents By Year of Grant:	0	0	0	0	1	0	1	1	0	0	4	2	0	9	0	18	
Patents By Year of Application:	0	0	1	0	3	0	0	1	3	2	1	6	1	0	0	18	
<b>UNISYS CORPORATION</b>																	
Patents By Year of Grant:	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
Patents By Year of Application:	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
<b>AMERICAN CYANAMID COMPANY</b>																	
Patents By Year of Grant:	13	0	1	0	0	0	0	0	0	1	1	0	0	1	0	17	
Patents By Year of Application:	13	1	0	0	0	0	0	2	0	0	0	1	0	0	0	17	
<b>HONEYWELL INC.</b>																	
Patents By Year of Grant:	10	0	0	0	0	0	1	1	1	0	1	3	0	0	0	17	
Patents By Year of Application:	10	0	0	0	0	1	1	3	2	0	0	0	0	0	0	17	





---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>SHARP KABUSHIKI KAISHA (SHARP CORPORATION)</b>																
Patents By Year of Grant:	2	2	0	0	1	0	0	1	2	0	0	0	3	2	1	14
Patents By Year of Application:	4	0	0	1	2	1	0	0	0	2	1	3	0	0	0	14
<b>VICTOR COMPANY OF JAPAN, LIMITED</b>																
Patents By Year of Grant:	4	0	0	0	0	0	3	1	1	0	0	3	0	1	1	14
Patents By Year of Application:	4	0	0	1	3	1	0	0	0	2	1	2	0	0	0	14
<b>CIBA-GEIGY CORPORATION</b>																
Patents By Year of Grant:	8	1	0	0	0	1	2	1	0	0	0	0	0	0	0	13
Patents By Year of Application:	9	0	0	1	2	1	0	0	0	0	0	0	0	0	0	13
<b>SGS-THOMSON MICROELECTRONICS S.A.</b>																
Patents By Year of Grant:	0	0	0	0	0	2	0	3	1	1	4	2	0	0	0	13
Patents By Year of Application:	0	0	1	0	3	5	3	1	0	0	0	0	0	0	0	13
<b>STMICROELECTRONICS S.R.L.</b>																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	1	5	2	3	13
Patents By Year of Application:	0	0	0	0	1	1	4	1	1	0	5	0	0	0	0	13
<b>TOYOTA JIDOSHA K.K.</b>																
Patents By Year of Grant:	1	0	4	1	0	0	0	0	0	1	0	1	1	3	1	13
Patents By Year of Application:	5	1	0	0	1	0	0	1	0	0	3	2	0	0	0	13
<b>3M INNOVATIVE PROPERTIES COMPANY</b>																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	2	3	2	5	12
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	1	5	3	1	1	0	12
<b>CORNING INCORPORATED</b>																
Patents By Year of Grant:	3	0	0	0	0	2	1	1	0	0	0	1	0	2	2	12
Patents By Year of Application:	3	1	0	1	1	1	0	1	0	1	2	0	1	0	0	12
<b>HEWLETT-PACKARD COMPANY</b>																
Patents By Year of Grant:	5	0	0	0	0	0	1	0	0	1	1	1	0	3	0	12
Patents By Year of Application:	5	0	0	0	0	2	1	0	0	3	0	1	0	0	0	12
<b>SCHLUMBERGER TECHNOLOGY CORPORATION</b>																
Patents By Year of Grant:	9	0	0	0	0	0	1	0	0	1	0	0	0	0	1	12
Patents By Year of Application:	9	0	0	0	0	1	0	1	0	0	0	0	1	0	0	12
<b>DANA CORPORATION</b>																
Patents By Year of Grant:	4	2	1	2	0	0	0	0	0	0	2	0	0	0	0	11
Patents By Year of Application:	6	2	1	0	0	0	0	1	1	0	0	0	0	0	0	11









---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre																
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
<b>HALLIBURTON CO.</b>																	
Patents By Year of Grant:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
<b>HITACHI METALS LTD.</b>																	
Patents By Year of Grant:	2	0	1	0	1	0	0	0	0	0	0	0	0	1	2	7	
Patents By Year of Application:	3	1	0	0	0	0	0	0	0	1	0	0	2	0	0	7	
<b>HOBART CORPORATION</b>																	
Patents By Year of Grant:	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
<b>HUGHES AIRCRAFT COMPANY</b>																	
Patents By Year of Grant:	4	0	0	0	2	0	1	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	4	0	2	0	0	1	0	0	0	0	0	0	0	0	0	7	
<b>L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE</b>																	
Patents By Year of Grant:	1	0	0	0	0	1	0	0	0	1	1	1	1	0	1	7	
Patents By Year of Application:	1	0	1	0	0	0	2	1	0	1	0	0	0	1	0	7	
<b>LG ELECTRONICS INC.</b>																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	7	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	7	
<b>MERCK + CO., INC.</b>																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	7	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	7	
<b>NIPPONDENSO CO., LTD.</b>																	
Patents By Year of Grant:	1	0	0	0	0	1	3	0	1	0	1	0	0	0	0	7	
Patents By Year of Application:	1	1	0	0	4	0	1	0	0	0	0	0	0	0	0	7	
<b>OWENS-ILLINOIS INC.</b>																	
Patents By Year of Grant:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
<b>PITNEY-BOWES, INC.</b>																	
Patents By Year of Grant:	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	
<b>SEMICONDUCTOR ENERGY LABORATORY CO., LTD.</b>																	
Patents By Year of Grant:	0	1	0	1	0	1	0	0	0	0	1	0	1	0	2	7	
Patents By Year of Application:	1	1	0	1	0	0	0	1	1	1	0	0	1	0	0	7	



---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>CPC INTERNATIONAL INC.</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6
Patents By Year of Application:	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6
<b>CUMMINS ENGINE CO., INC.</b>																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	1	1	0	1	1	0	6
Patents By Year of Application:	2	0	0	0	0	0	0	2	0	0	0	2	0	0	0	6
<b>FMC CORPORATION</b>																
Patents By Year of Grant:	3	0	0	0	0	0	1	0	1	0	0	0	0	0	1	6
Patents By Year of Application:	3	0	0	0	1	0	0	1	0	0	1	0	0	0	0	6
<b>FORD MOTOR COMPANY</b>																
Patents By Year of Grant:	1	1	0	1	1	2	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	2	0	2	1	1	0	0	0	0	0	0	0	0	0	0	6
<b>GENERAL SIGNAL CORPORATION</b>																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>HERCULES INCORPORATED</b>																
Patents By Year of Grant:	4	0	0	0	0	0	1	0	1	0	0	0	0	0	0	6
Patents By Year of Application:	4	0	0	0	1	0	1	0	0	0	0	0	0	0	0	6
<b>INTEL CORPORATION</b>																
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	2	1	1	0	1	6
Patents By Year of Application:	0	1	0	0	0	0	1	2	0	0	0	1	1	0	0	6
<b>J. M. HUBER CORPORATION</b>																
Patents By Year of Grant:	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	6
Patents By Year of Application:	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	6
<b>JOHNS-MANVILLE CORPORATION</b>																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>KENNAMETAL INC.</b>																
Patents By Year of Grant:	3	0	0	0	1	0	0	0	0	0	0	0	1	0	1	6
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	0	1	0	1	0	0	6
<b>KOBE STEEL LTD.</b>																
Patents By Year of Grant:	1	2	0	0	0	0	0	0	0	0	1	0	0	1	1	6
Patents By Year of Application:	3	0	0	0	0	0	0	0	1	0	0	1	0	1	0	6

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre																
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
<b>LITTON SYSTEMS INC.</b>																	
Patents By Year of Grant:	3	0	0	1	0	0	1	1	0	0	0	0	0	0	0	6	
Patents By Year of Application:	3	0	1	0	1	1	0	0	0	0	0	0	0	0	0	6	
<b>MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V</b>																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	0	1	0	1	6	
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	1	0	1	0	0	0	6	
<b>MOORE BUSINESS FORMS INC.</b>																	
Patents By Year of Grant:	3	1	1	0	0	0	1	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	
<b>NIPPON STEEL CORP.</b>																	
Patents By Year of Grant:	4	0	0	1	0	0	1	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	6	
<b>NORDSON CORPORATION</b>																	
Patents By Year of Grant:	2	2	0	0	0	0	1	0	0	1	0	0	0	0	0	6	
Patents By Year of Application:	4	0	0	0	1	0	0	1	0	0	0	0	0	0	0	6	
<b>POLAROID CORPORATION</b>																	
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
<b>RHONE-POULENC AGROCHIMIE LIMITED</b>																	
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
<b>SANSHIN KOGYO KABUSHIKI KAISHA</b>																	
Patents By Year of Grant:	2	0	0	0	0	0	1	0	0	0	0	1	0	2	0	6	
Patents By Year of Application:	2	0	0	0	1	0	0	1	1	0	0	1	0	0	0	6	
<b>SANYO ELECTRIC CO., LTD.</b>																	
Patents By Year of Grant:	2	0	1	0	1	0	0	0	0	0	0	0	0	2	0	6	
Patents By Year of Application:	3	0	0	1	0	0	1	0	0	0	0	1	0	0	0	6	
<b>SEAGATE TECHNOLOGY, INCORPORATED</b>																	
Patents By Year of Grant:	0	0	0	2	0	0	0	1	0	1	0	2	0	0	0	6	
Patents By Year of Application:	0	1	1	0	0	2	1	0	0	1	0	0	0	0	0	6	
<b>SGS-THOMSON MICROELECTRONICS, INC.</b>																	
Patents By Year of Grant:	1	0	0	0	0	0	1	0	1	1	1	0	1	0	0	6	
Patents By Year of Application:	1	0	0	1	0	2	1	0	1	0	0	0	0	0	0	6	



---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>ATLANTIC RICHFIELD COMPANY</b>																	
Patents By Year of Grant:	2	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5
Patents By Year of Application:	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5
<b>AUTOMOTIVE PRODUCTS PLC</b>																	
Patents By Year of Grant:	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
<b>BLACK &amp; DECKER INC.</b>																	
Patents By Year of Grant:	0	1	0	0	0	0	0	0	0	0	0	1	0	2	1	0	5
Patents By Year of Application:	1	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	5
<b>BOEHRINGER MANNHEIM G.M.B.H.</b>																	
Patents By Year of Grant:	0	0	0	0	1	2	1	0	0	0	1	0	0	0	0	0	5
Patents By Year of Application:	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	5
<b>CHURCH + DWIGHT CO., INC.</b>																	
Patents By Year of Grant:	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	5
<b>CINCINNATI MILACRON INC.</b>																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>COCA-COLA COMPANY</b>																	
Patents By Year of Grant:	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>DISCOVISION ASSOCIATES</b>																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
Patents By Year of Application:	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
<b>EMERSON ELECTRIC CO.</b>																	
Patents By Year of Grant:	3	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	5
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5
<b>ETHYL CORPORATION</b>																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
<b>GENERAL INSTRUMENT CORPORATION</b>																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>HITACHI CABLE, LTD.</b>																
Patents By Year of Grant:	2	0	0	0	0	1	0	0	0	0	1	0	1	0	0	5
Patents By Year of Application:	2	1	0	0	0	0	0	0	0	1	1	0	0	0	0	5
<b>IDEMITSU KOSAN COMPANY LIMITED</b>																
Patents By Year of Grant:	2	0	0	0	0	0	0	1	0	0	0	1	1	0	0	5
Patents By Year of Application:	2	0	0	0	1	0	0	0	0	1	0	1	0	0	0	5
<b>INTERNATIONAL FLAVORS + FRAGRANCES INC</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>LAITRAM CORPORATION</b>																
Patents By Year of Grant:	2	0	0	1	0	2	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	2	0	1	0	2	0	0	0	0	0	0	0	0	0	0	5
<b>LEVER BROTHERS COMPANY, DIVISION OF CONOPCO, INC.</b>																
Patents By Year of Grant:	2	0	0	1	0	0	0	0	0	0	0	1	0	1	0	5
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
<b>LUBRIZOL CORPORATION</b>																
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5
Patents By Year of Application:	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
<b>mitsubishi RAYON CO., LTD.</b>																
Patents By Year of Grant:	2	0	0	1	0	0	0	0	1	0	0	0	0	0	1	5
Patents By Year of Application:	3	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
<b>MOLINS LIMITED</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>NIPPON SEIKO KABUSHIKI KAISHA</b>																
Patents By Year of Grant:	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	5
<b>NIPPON THOMPSON CO., LTD.</b>																
Patents By Year of Grant:	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	5
<b>NISSAN CHEMICAL INDUSTRIES, LTD.</b>																
Patents By Year of Grant:	0	1	0	0	2	1	0	0	0	0	0	0	0	0	1	5
Patents By Year of Application:	1	0	0	3	0	0	0	0	0	0	0	0	1	0	0	5

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>NORTH AMERICAN PHILIPS CORPORATION</b>																
Patents By Year of Grant:	2	0	1	0	1	0	0	0	0	0	0	0	0	1	0	5
Patents By Year of Application:	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	5
<b>NORTHERN TELECOM LIMITED</b>																
Patents By Year of Grant:	3	0	0	0	1	0	0	0	0	0	0	1	0	0	0	5
Patents By Year of Application:	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	5
<b>PPG INDUSTRIES INC.</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>ROCKY RESEARCH</b>																
Patents By Year of Grant:	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	5
Patents By Year of Application:	0	0	2	0	0	0	0	1	1	1	0	0	0	0	0	5
<b>ROLLS-ROYCE PLC</b>																
Patents By Year of Grant:	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	5
Patents By Year of Application:	2	1	0	1	0	0	1	0	0	0	0	0	0	0	0	5
<b>SAINT-GOBAIN VITRAGE</b>																
Patents By Year of Grant:	0	0	0	0	0	3	0	0	0	0	0	0	1	0	1	5
Patents By Year of Application:	0	1	1	1	0	0	0	1	0	0	1	0	0	0	0	5
<b>SANDEN CORPORATION</b>																
Patents By Year of Grant:	2	0	0	1	0	0	0	0	1	1	0	0	0	0	0	5
Patents By Year of Application:	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0	5
<b>SANDVIK AKTIEBOLAG</b>																
Patents By Year of Grant:	2	0	0	0	0	0	1	0	0	0	1	0	0	1	0	5
Patents By Year of Application:	2	0	0	0	0	1	0	0	2	0	0	0	0	0	0	5
<b>SANTA FE INTERNATIONAL CORPORATION</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>SCM CORPORATION</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>SEGA ENTERPRISES, LTD.</b>																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	5
Patents By Year of Application:	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	5

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>STERLING DRUG INC.</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>SUMITOMO CHEMICAL COMPANY, LIMITED</b>																
Patents By Year of Grant:	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	5
Patents By Year of Application:	2	0	2	0	0	1	0	0	0	0	0	0	0	0	0	5
<b>SUNDSTRAND CORPORATION</b>																
Patents By Year of Grant:	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
<b>TEKTRONIX INC.</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>TORAY INDUSTRIES INC.</b>																
Patents By Year of Grant:	3	0	1	0	0	0	0	0	0	0	1	0	0	0	0	5
Patents By Year of Application:	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
<b>TORO COMPANY</b>																
Patents By Year of Grant:	2	0	1	0	0	0	1	0	0	0	0	1	0	0	0	5
Patents By Year of Application:	3	0	0	0	1	0	0	0	0	1	0	0	0	0	0	5
<b>TORRINGTON COMPANY</b>																
Patents By Year of Grant:	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5
<b>UNIROYAL, INC.</b>																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>UNIVERSITY OF MINNESOTA, THE REGENTS OF</b>																
Patents By Year of Grant:	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
<b>WACOM CO., LTD.</b>																
Patents By Year of Grant:	0	0	1	2	1	0	0	1	0	0	0	0	0	0	0	5
Patents By Year of Application:	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	5
<b>WISCONSIN ALUMNI RESEARCH FOUNDATION</b>																
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5

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	Pre	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>ZENITH ELECTRONICS CORPORATION</b>																
Patents By Year of Grant:	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0	5
Patents By Year of Application:	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5
<b>Other Organizations (3665)</b>																
Patents By Year of Grant:	1950	181	126	197	166	161	155	146	161	174	238	283	281	254	246	4719
Patents By Year of Application:	2306	177	190	178	182	222	223	217	242	238	223	206	85	30	0	4719