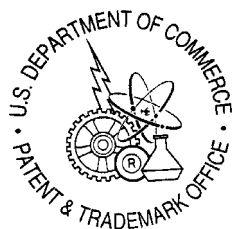


STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS

JANUARY 1977 -- DECEMBER 1998



March 1999
U.S. PATENT AND TRADEMARK OFFICE
OFFICE FOR PATENT AND TRADEMARK INFORMATION / TAF PROGRAM
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A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

Statutory Invention Registrations and Defensive Publications Report
1/1977 - 12/1998
Explanation of Data

This Technology Assessment and Forecast (TAF) Program Report profiles patent activity for statutory invention registrations and defensive publications (hereafter referred to as patents) granted between 1977 and December 1997. The source of the data used for this report is the TAF data base maintained by the Office for Patent and Trademark Information.

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 1985" column corresponds to the period January 1, 1977 through December 31, 1984.

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 40% 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 1998**. 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 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.

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 one or more U.S. statutory invention registrations and/or defensive publications 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.

* As of December 31, 1998, UTILITY patent application data (most issued patent documents are utility patents) were approximately 98% complete for patent applications filed in 1995, 84% complete for applications filed in 1996, and 27% complete for applications filed in 1997. They are essentially complete for applications filed prior to 1995. Currently, completion percentages restricted to statutory invention registrations and defensive publications 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, 1998) ----

	NUMBER OF PATENTS															
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Total
Total	475	28	179	213	167	157	143	144	117	144	117	121	109	78	62	2254
U.S. Origin	397	26	172	203	160	134	123	128	98	131	105	111	94	65	56	2003
Foreign Origin	78	2	7	10	7	23	20	16	19	13	12	10	15	13	6	251
JAPAN	9		7	6	5	16	16	14	13	12	9	7	12	7	3	136
UNITED KINGDOM	46			2	1	2	3	1		1	1					56
CANADA	4			1		3	1			1	1	1		1	1	15
GERMANY	8									2				1		11
NETHERLANDS	4			1		1				1			1	1		9
FRANCE	2									2	1	1			1	7
SWITZERLAND	2	1										1	1			5
INDIA		1						1					1			3
ITALY					1	1									1	3
AUSTRALIA	2															2
BELGIUM															2	2
INDONESIA														1		1
SWEDEN	1															1
Ownership:																
U.S. Corporations	146	3	37	28	31	30	21	24	25	36	34	35	40	29	26	545
U.S. Government	32	2	120	162	114	95	80	87	61	64	49	51	37	22	10	986
U.S. Individuals	228	21	15	17	16	14	24	19	13	31	24	25	19	18	19	503
Foreign Corporations	35	1	6	5	5	11	12	10	11	8	9	5	7	3	6	134
Foreign Government																0
Foreign Individuals	34	1	1	1	1	7	6	4	7	5	1	5	6	6	1	86

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 1998) ----

	PERCENT OF PATENTS															
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	84	93	96	95	96	85	86	89	84	91	90	92	86	83	90	89
Foreign Origin	16	7	4	5	4	15	14	11	16	9	10	8	14	17	10	11
JAPAN			4	3	3	10	11	10	11	8	8	6	11	9	5	6
UNITED KINGDOM	10			1	1	1	2	1			1					2
CANADA	1					2	1			1	1	1		1	2	1
GERMANY	2									2				1		0
NETHERLANDS	1					1				1			1	1		0
FRANCE										2	1	1			2	0
SWITZERLAND		4										1	1			0
INDIA		4						1					1			0
ITALY					1	1									2	0
AUSTRALIA																0
BELGIUM														3		0
INDONESIA														1		0
SWEDEN																0
Ownership:																
U.S. Corporations	31	11	21	13	19	19	15	17	21	25	29	29	37	37	42	24
U.S. Government	7	7	67	76	68	61	56	60	52	44	42	42	34	28	16	44
U.S. Individuals	48	75	8	8	10	9	17	13	11	22	21	21	17	23	31	22
Foreign Corporations	7	4	3	2	3	7	8	7	9	6	8	4	6	4	10	6
Foreign Government																0
Foreign Individuals	7	4	1		1	4	4	3	6	3	1	4	6	8	2	4

Part A2

Patent Grants As Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 1998) ----

	NUMBER OF PATENTED APPLICATIONS															Total
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
Total	650	178	199	172	144	163	163	129	138	113	75	75	32	21	2	2254
U.S. Origin	564	164	192	156	117	145	140	122	126	99	63	66	27	20	2	2003
Foreign Origin	86	14	7	16	27	18	23	7	12	14	12	9	5	1		251
JAPAN	13	10	6	12	19	17	17	6	10	9	9	4	3	1		136
UNITED KINGDOM	47	1	1	3	3					1						56
CANADA	4	1		1	3		3			2			1			15
GERMANY	8				1			1				1				11
NETHERLANDS	5	1				1				1	1					9
FRANCE	2						2		2				1			7
SWITZERLAND	2	1									2					5
INDIA	1						1			1						3
ITALY	1				1							1				3
AUSTRALIA	2															2
BELGIUM												2				2
INDONESIA												1				1
SWEDEN	1															1
Ownership:																
U.S. Corporations	186	38	25	28	23	25	30	37	38	41	26	22	14	11	1	545
U.S. Government	125	112	154	117	82	93	87	54	62	45	23	22	8	1	1	986
U.S. Individuals	263	16	16	14	16	28	25	32	26	15	16	23	5	8		503
Foreign Corporations	39	10	4	5	18	12	14	4	8	6	5	4	4	1		134
Foreign Government																0
Foreign Individuals	37	2		8	5	5	7	2	4	6	5	4	1			86

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 1998) ----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	87	92	96	91	81	89	86	95	91	88	84	88	84	95	100	89
Foreign Origin	13	8	4	9	19	11	14	5	9	12	16	12	16	5		11
JAPAN		2	6	3	7	13	10	10	5	7	8	12	5	9	5	6
UNITED KINGDOM		7	1	1	2	2				1						2
CANADA		1	1		1	2		2			2			3		1
GERMANY		1			1			1				1				0
NETHERLANDS		1	1			1				1	1					0
FRANCE							1		1				3			0
SWITZERLAND			1								3					0
INDIA							1			1						0
ITALY					1							1				0
AUSTRALIA																0
BELGIUM												3				0
INDONESIA												1				0
SWEDEN																0
Ownership:																
U.S. Corporations	29	21	13	16	16	15	18	29	28	36	35	29	44	52	50	24
U.S. Government	19	63	77	68	57	57	53	42	45	40	31	29	25	5	50	44
U.S. Individuals	40	9	8	8	11	17	15	25	19	13	21	31	16	38		22
Foreign Corporations	6	6	2	3	13	7	9	3	6	5	7	5	13	5		6
Foreign Government																0
Foreign Individuals	6	1		5	3	3	4	2	3	5	7	5	3			4

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, 1998) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
INTERNATIONAL BUSINESS MACHINES CORPORATION																	
Patents By Year of Grant:	25	0	0	0	1	0	0	1	0	0	0	0	0	0	0	27	
Patents By Year of Application:	26	0	0	0	0	1	0	0	0	0	0	0	0	0	0	27	
IMPERIAL CHEMICAL INDUSTRIES PLC																	
Patents By Year of Grant:	25	0	0	0	0	0	0	0	0	0	1	0	0	0	0	26	
Patents By Year of Application:	25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	26	
KONICA CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	3	0	2	4	7	2	2	5	0	0	25	
Patents By Year of Application:	0	0	0	2	1	1	11	1	3	2	3	1	0	0	0	25	
A. E. STALEY MANUFACTURING COMPANY																	
Patents By Year of Grant:	0	0	1	3	4	4	2	3	2	1	1	2	1	0	0	24	
Patents By Year of Application:	1	6	1	2	4	2	4	0	3	0	1	0	0	0	0	24	
EXXON PRODUCTION RESEARCH COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	1	1	0	0	3	5	2	4	1	1	18	
Patents By Year of Application:	0	1	0	0	1	0	1	2	3	5	4	0	1	0	0	18	
W. R. GRACE & CO.-CONN.																	
Patents By Year of Grant:	0	1	2	5	2	0	2	0	2	1	0	0	0	0	0	15	
Patents By Year of Application:	1	6	2	1	1	2	0	0	2	0	0	0	0	0	0	15	
PROCTER + GAMBLE COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	1	3	7	2	14	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	2	4	6	0	1	0	14	
BRISTOL-MYERS SQUIBB COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	2	2	0	0	1	2	1	0	1	2	11	
Patents By Year of Application:	1	0	1	1	2	0	1	0	1	1	0	0	1	2	0	11	
FMC CORPORATION																	
Patents By Year of Grant:	3	0	2	1	0	0	1	1	0	1	0	0	0	0	2	11	
Patents By Year of Application:	6	0	0	1	1	0	1	0	0	0	0	0	0	1	1	11	
DOW CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	0	1	1	0	0	0	1	1	0	4	1	1	0	10	
Patents By Year of Application:	0	0	1	1	0	0	1	2	1	3	0	0	1	0	0	10	
HERCULES INCORPORATED																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	1	1	1	0	1	1	1	10	
Patents By Year of Application:	4	0	0	0	0	0	1	1	1	0	1	2	0	0	0	10	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1998) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
EASTMAN KODAK COMPANY																
Patents By Year of Grant:	5	0	1	0	0	0	0	0	1	1	0	0	1	0	0	9
Patents By Year of Application:	5	1	0	0	0	0	1	1	1	0	0	0	0	0	0	9
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	7	0	0	1	0	0	0	0	1	0	0	0	0	0	0	9
Patents By Year of Application:	7	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9
CONCO INC.																
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
KIORITZ CORPORATION																
Patents By Year of Grant:	0	0	0	3	1	1	1	1	0	0	0	1	0	0	0	8
Patents By Year of Application:	0	2	3	1	1	0	0	0	0	1	0	0	0	0	0	8
MEDTRONIC INC.																
Patents By Year of Grant:	0	0	2	1	1	0	0	0	1	0	1	1	0	0	0	7
Patents By Year of Application:	3	1	0	0	0	0	1	0	1	1	0	0	0	0	0	7
EXXON RESEARCH + ENGINEERING CO.																
Patents By Year of Grant:	0	0	0	2	1	1	2	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	0	1	1	3	0	1	0	0	0	0	0	0	0	0	0	6
XEROX CORPORATION																
Patents By Year of Grant:	0	0	3	0	0	0	0	0	0	1	0	1	0	1	0	6
Patents By Year of Application:	3	0	0	0	0	0	0	2	0	0	0	1	0	0	0	6
FIRESTONE TIRE & RUBBER CO.																
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
GENERAL ELECTRIC COMPANY																
Patents By Year of Grant:	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5
Patents By Year of Application:	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5
WESTINGHOUSE ELECTRIC CORP.																
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
ATLANTIC RICHFIELD COMPANY																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	4
Patents By Year of Application:	2	0	0	0	0	0	0	0	1	0	0	1	0	0	0	4

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1998) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
CETUS CORPORATION																	
Patents By Year of Grant:	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	4	
Patents By Year of Application:	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
MINNESOTA MINING AND MANUFACTURING COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	4	
Patents By Year of Application:	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	4	
MOTOROLA, INC.																	
Patents By Year of Grant:	0	0	0	0	0	2	0	0	0	1	0	0	0	0	1	4	
Patents By Year of Application:	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	4	
AMERICAN CYANAMID COMPANY																	
Patents By Year of Grant:	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
BEXFORD LIMITED																	
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
CHRYSLER MOTORS CORPORATION																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	3	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	3	
GILLETTE COMPANY																	
Patents By Year of Grant:	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	3	
Patents By Year of Application:	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	3	
ISHIHARA SANGYO KAISHA LTD.																	
Patents By Year of Grant:	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	
MI DRILLING FLUIDS COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	3	
Patents By Year of Application:	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	3	
NAVISTAR INTERNATIONAL TRANSPORTATION CORP.																	
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
RHONE-POULENC INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1998) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
BRAND INSULATIONS, INC.																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
BRUNSWICK CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BURROUGHS WELLCOME CO.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
CARPENTER TECHNOLOGY CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CENTRAL SPRINKLER CORPORATION																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLAIROL INCORPORATED																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
COBE LABORATORIES, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
CPT CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
CRAY RESEARCH, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
CREATACARD, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
CYTOGEN CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1998) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre																TOTAL
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998		
DAINIPPON SCREEN MFG. CO., LTD.																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
DATA GENERAL CORP.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
EASTMAN CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
ELECTRIC POWER RESEARCH INSTITUTE, INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
ELF ATOCHEM NORTH AMERICA, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
EMERSON ELECTRIC CO.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
EMHART INDUSTRIES, INC.																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
EXXON CHEMICAL COMPANY LAW TECHNOLOGY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
EXXON CHEMICALS PATENTS INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
FIBERWEB NORTH AMERICA, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
GENETICS INSTITUTE, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1998) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
MITSUBISHI OIL CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
MOLI ENERGY (1990) LIMITED																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
MONSANTO CO.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
MOORE BUSINESS FORMS INC.																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
MORTON THIOKOL, INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NATIONAL SEMICONDUCTOR CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NEW VENTURE GEAR, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
NGK SPARK PLUG CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NIHON NOHYAKU CO. LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
NITTO BOSEKI CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
NORDSON CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	

