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 PK3 - SUITE 441, WASHINGTON, DC 20231 TEL (703) 306-2600/ FAX (703) 306-2737

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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Page Al- 1

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

							NUI	BER 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					56
CANADA	4			1		3	1		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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

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

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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Page A2- 1

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

						– – – м	JMBER O	F PATENTE	D APPLIC	ATIONS							
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Total	
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	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

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

						Pl	ERCENT OF	F PATENTE	D APPLIC	ATIONS							
	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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	ed: Jan O	1, 1977	- Dec 31,	, 1998)	R	anked Li	st of Or	ganizati	ons with	1 or i	More Pat	ents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
UNITED STATES OF AMERICA, ARMY																	
Patents By Year of Grant:	0	0	57	85	48	36	37	29	23	30	16	19	18	2	1	401	
Patents By Year of Application:	31	40	79	50	32	42	29	24	35	26	10	1	2	0	0	401	
UNITED STATES OF AMERICA, NAVY																	
Patents By Year of Grant:	1	0	17	36	23	20	11	15	16	14	17	16	9	10	4	209	
Patents By Year of Application:	24	21	36	24	12	18	17	17	12	10	7	10	1	0	0	209	
UNITED STATES OF AMERICA, DEPARTMENT C																	
Patents By Year of Grant:	3	0	24	17	16	18	17	20	8	10	6	5	0	1	1	146	
Patents By Year of Application:	26	19	15	19	13	20	19	7	5	1	1	0	0	1	0	146	
UNITED STATES OF AMERICA, AIR FORCE																	
Patents By Year of Grant:	0	0	7	18	21	20	13	14	6	7	7	6	5	5	3	132	
Patents By Year of Application:	13	11	19	23	20	7	10	5	6	6	3	4	4	0	1	132	
SHELL OIL COMPANY																	
Patents By Year of Grant:	8	0	0	3	7	6	4	6	8	10	12	12	13	5	5	99	
Patents By Year of Application:	12	4	4	7	4	7	5	16	13	13	5	4	3	2	0	99	
UNITED STATES OF AMERICA																	
Patents By Year of Grant:	0	2	13	5	5	0	1	6	5	3	3	5	5	4	1	58	
Patents By Year of Application:	3	19	3	0	2	4	10	1	4	2	2	7	1	0	0	58	
AT&T CORP.																	
Patents By Year of Grant:	7	2	15	2	4	2	2	1	0	3	1	0	0	0	0	39	
Patents By Year of Application:	24	4	1	3	0	2	2	1	2	0	0	0	0	0	0	39	
FUJI PHOTO FILM CO., LTD			_								_						
Patents By Year of Grant:	0	0	5	0	1	6	6	4	3	1	5	1	2	2	0	36	
Patents By Year of Application:	1	5	1	0	10	8	1	2	4	1	2	0	1	0	0	36	
Patents By Year of Grant:	24	0	0	1	0	0	0	2	0	4	1	3	0	0	0	35	
Patents By Year of Application:	24	0	1	0	0	0	1	3	1	4	1	0	0	0	0	35	
E. I. DU PONT DE NEMOURS AND COMPANY																	
Patents By Year of Grant:	9	0	5	2	2	1	1	1	1	2	2	2	1	2	4	35	
Patents By Year of Application:	11	4	3	0	3	2	1	1	2	1	1	0	2	4	0	35	
UNITED STATES OF AMERICA, TENNESSEE VA	LLEY AU	THORITY															
Patents By Year of Grant:	21	0	2	0	1	1	0	1	2	0	0	0	0	0	0	28	
Patents By Year of Application:	21	2	1	1	1	2	0	0	0	0	0	0	0	0	0	28	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	d: Jan (1, 1977	- Dec 31	, 1998)	F	anked Li	st of Or	ganizati	ons with	1 or	More Pat	tents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
INTERNATIONAL BUSINESS MACHINES CORPO																	
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	T	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	
ratenes by rear or Apprication:	U	U	Ū	4	-	-	11	-	5	4	5	-	U	U	U	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 & COCONN.																	
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	•	•	•	•			•	•	~		•		•		<u> </u>		
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	U	1	T	U	U	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 Grant: Patents By Year of Application:	5	0	2	1	1	0	1	0	0	0	0	0	0	1	2	11	
ratenes by rear or Apprication:	U	U	Ū	-	-	Ū	-	Ū	U	U	U	Ū	U	-	Ŧ		
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	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

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Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1998)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents
	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 AGRIC	ULTURE														
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
_	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	ō	U	U	U	U	U	U	U	U	U	U	U	U	U	U	o
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
Patents by fear of Application:	3	U	U	U	0	U	U	4	U	U	0	1	0	U	U	0
ETDEGROVE STREES DURDED GO																
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	ů 0	ů 0	0 0	0	0	0	1	ů 0	0	1	0	0	0	4
	-	v	v	v	v	v	v	v	-	v	v	-	v	v	v	-

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1998)	R	anked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	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 CO	MPANY																
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	

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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

---- Organizational Patenting

Organizational Fatenting				(Grance	u. Dan U	1, 1977	- Dec SI	, 1990)	K	anked hi	SC OI OI	ganizaci	ons wich	I OI I	MOLE Fat	
	Pre	1005	1000	1005	1000	1000	1000	1001	1000	1000	1004	1005	1000	1005	1000	
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
SMITH INTERNATIONAL INC.	-															
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
Patents By Year of Application:	2	0	U	0	0	U	U	U	U	1	0	0	U	U	U	3
UNITED STATES OF AMERICA, HEALTH & HUN																
Patents By Year of Grant:	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
Patents By Year of Application:	0	0	0	U	1	0	2	0	0	0	U	0	0	U	0	3
ADVANCED NUCLEAR FUELS CORPORATION	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
BEXFORD LIMITED IMPERIAL CHEMICAL HOUS		0	0	0	2	U	0	0	U	U	U	U	0	0	0	2
Patents By Year of Grant:	2 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	2	U	0	0	Ū	U	0	Ū	0	Ū	Ū	Ū	0	0	0	2
FORD MOTOR COMPANY	1	0	0	0	1	0	0	0	•	0	0	0	0	0	0	2
Patents By Year of Grant:	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Patents By Year of Application:	T	T	0	U	0	U	0	U	0	0	U	U	U	U	0	2
HOECHST CELANESE CORPORATION	•	0	0	0	0	0	1	•	0	0	0	0	0	0	1	2
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
Patents By Year of Application:	0	U	0	0	0	1	0	U	U	U	U	U	0	T	0	2
KEARNEY + TRECKER CORPORATION	2	0	0	0	0	0	0	0	•	0	0	0	0	0	0	2
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Patents By Year of Application:	2	U	0	0	0	U	0	U	0	0	U	U	0	0	0	2
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
MALLINCKRODT, INC.																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
MITSUBISHI RAYON CO., LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Patents By Year of Application:	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
MOBIL OIL CORP.																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

							_							_			
Organizational Patenting				(Grante	d: Jan ()1, 1977	- Dec 31	, 1998)	F	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	cents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
NIKON CORPORATION												_					
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	
NIPPONDENSO CO., LTD. Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
racened by rear of appreciation.	-	Ŭ	v	Ŭ	Ū	Ū	v	v	Ū	v	Ū	v	v	v	Ũ	-	
OTIS ENGINEERING CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	
POLAROID CORPORATION																	
Patents By Year of Grant:	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
RCA CORPORATION																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
RECOGNITION EQUIPMENT INCORPORATED		•			-	•	•	-	•	•		•	•	•		•	
Patents By Year of Grant:	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	U	T	U	T	0	U	0	U	U	U	U	0	0	U	2	
TEXACO CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
		· ·			· ·	· ·	=	•	· ·	· ·	·			•	· ·	-	
UNITED STATES BORAX + CHEMICAL CORPOR	ATION																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
VISKASE CORPORATION																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	2	
AHLSTROM MACHINERY, INC.																	
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	
NCAN NUMBER CORDORATION																	
ALCAN ALUMINUM CORPORATION	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Grant: Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Facence by rear of Apprication:	1	0	U	U	0	U	U	U	0	U	U	U	0	U	0	T	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	d: Jan (1, 1977	- Dec 31,	, 1998)	R	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
ALLIED-SIGNAL 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	
ARCO CHEMICAL TECHNOLOGY, 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	
facence by fear of Application.	U	U	Ū	U	U	-	U	Ū	U	v	U	v	U	Ū	U	-	
NOTWOMOO TNO																	
ARIMETCO, INC.	•	0	0	•	0	0	•	0	0	•	-	0	0	0	<u> </u>	1	
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	
AUBURN UNIVERSITY																	
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	1	0	0	0	0	0	0	1	
BABOLAT VS																	
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	
BASF 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	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Fatences by rear of Apprication:	U	U	-	U	U	U	U	U	U	U	U	U	U	U	U	-	
BATESVILLE CASKET COMPANY, 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	0	1	0	0	0	0	0	1	
BBC BROWN, BOVERI & COMPANY, LIMITED																	
Patents By Year of Grant:	0	1	0	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	
BEDFORD LIMITED																	
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	
BOSTON UNIVERSITY																	
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	
Fatence by rear of Apprication:	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	T	
BP AMERICA INC.	•	•	•	•	•	•	•	-	•	•	•	•	•	•	<u> </u>	-	
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	1	0	0	0	0	0	0	0	0	0	1	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	ed: Jan (01, 1977	- Dec 31	, 1998)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	cents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
BRAND INSULATIONS, INC.	0	•	•	•	-	•	0	•	•	•	•	•	•	•	•	-	
Patents By Year of Grant:	0	0	0 0	0 1	1 0	0	0 0	0 0	0	0	0	0	0	0 0	0	1 1	
Patents By Year of Application:	0	0	0	T	0	0	0	0	0	0	0	0	0	0	0	T	
BRUNSWICK CORPORATION	1	0	0	•	0	0	0	•	0	0	0	0	0	0	0	1	
Patents By Year of Grant:	1	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	0	1 1	
Patents By Year of Application:	T	U	0	U	U	U	U	0	U	U	0	U	U	U	0	T	
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	
Facence by rear of Apprication:	0	U	0	1	U	0	U	0	U	U	U	U	U	U	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	
Fatents by rear of Apprication:	U	U	U	U	U	U	U	Ŧ	U	U	U	U	U	U	0	T	
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	
	•	•	•	Ť		÷	•	•	-	•	•	•	•	•	5	-	

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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

---- Organizational Patenting

				(Granee	u. oui o	-, -,											
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
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	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Cmant-	d. Tor (1 1077	Dec. 31	1009		Dopland T-	at of 0		ong with	1	Nome Dat	ents	
Organizational Patenting				Grante	a: Jan (JI, 1977	- Dec 31,	, TAAR)		Ranked Li	st or Or	ganizati	ons with	1 or	more Pat	tents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
GLYCO CHEMICALS, 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	
GRACE ITALIANA S.P.A. 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	
ratenes by rear of apprication.	-	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū	U	U	Ū	Ū	Ū	U	-	
GREAT LAKES CHEMICAL 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	
GTE MOBILE COMMUNICATIONS SERVICE COR	PORATION																
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	1	0	0	0	0	0	1	
HALLIBURTON CO.																	
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	
HENKEL CORPORATION	_														_	_	
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	U	0	0	U	0	U	0	0	0	T	0	0	0	0	1	
HENNING BERLIN GMBH CHEMIE- UND PHARM	AMEDK																
Patents By Year of Grant:	AWERE 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	1	0	0	0	0	0	0	0	0	0	0	1	
	·	•	•	Ţ	_	Ţ	·	·	•	v	•	Ţ	·	•	·	-	
HEUER-LEONIDAS S.A.																	
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	
HUTCHINSON TECHNOLOGY 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	
ICI AMERICAS 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	
K. W. MUTH COMPANY, INC.	0	0	0	0	0	0	0	0	1	0	0	^	0	0	0	-	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Facence by rear of Apprication:	0	U	U	U	U	1	U	U	0	U	U	U	U	U	U	1	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

					_												
Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1998)	Ra	anked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	Dest																
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
	1992	1982	T390	1987	T399	T 3 9 3	1990	TAAT	1992	T332	1994	T332	TAAO	1991	T339	IUTAL	
KANEGAFUCHI CHEMICAL INDUSTRY 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:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
KAO KABUSHIKI KAISHA (KAO CORPORATION)																	
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	
KENNECOTT 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:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
KIMBERLY-CLARK CORPORATION																	
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	1	0	0	0	0	0	0	1	
racents by rear of Apprication:	U	U	U	U	U	U	U	U	-	U	U	U	U	U	J	+	
THEFT Y OF ADV MORT DUTDE THO																	
KIMBERLY-CLARK WORLDWIDE, 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	0	0	0	0	0	1	0	0	1	
KOBE, 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	
LORILLARD TOBACCO COMPANY																	
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	1	0	0	0	0	0	0	1	
	÷	·	•	v	÷	v	÷	•	-	÷	÷	•	÷	÷	÷	-	
LUCENT TECHNOLOGIES INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
-	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	U	U	U	U	U	U	U	U	U	U	U	T	U	U	U	T	
MACHINE BUILDERS AND DESIGN, 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	
MEAD CORPORATION																	
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	
MINOLTA CAMERA CO., LTD.																	
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	õ	0	õ	0	ů 0	0	0	0	ů 0	0	0	0	0	ů 0	1	
- course of the approaction.	-	v	v	v	v	v	v	v	v	v	v	v	v	v	J	-	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	1998)	F	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	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	

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

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

---- Organizational Patenting

				(or and c													
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
NORTON COMPANY																	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NUTRASWEET COMPANY																	
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	
OCCIDENTAL CHEMICAL CORPORATION																	
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	
OKI AMERICA, INC.																	
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	1	0	0	0	0	1	
OKURA YUSOKI KABUSHIKI KAISHA																	
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	
OTIS ELEVATOR COMPANY																	
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	
PALL CORPORATION																	
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	
PENNSYLVANIA DEPARTMENT OF TRANSPORTA	TION																
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	
PPG INDUSTRIES 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	1	0	0	0	0	0	0	0	1	
PROCESS LAB. MICRON CO., LTD.																	
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	
PULLMAN, INCORPORATED																	
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	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

														_			
Organizational Patenting				(Grante	d: Jan (01, 1977	- Dec 31,	, 1998)	I	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
QUANTUM CHEMICAL CORPORATION																	
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	0	1	0	0	0	1	
R. J. REYNOLDS TOBACCO COMPANY																	
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	1	0	0	0	0	0	0	0	1	
REYNOLDS METALS COMPANY																	
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	
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RHONE-POULENC AG COMPANY																	
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	1	0	0	0	0	0	0	0	0	0	1	
RHONE-POULENC CHEMICALS LTD.																	
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	0	1	0	0	0	0	0	1	
RHONE-POULENC RORER PHARMACEUTICALS IN																	
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	
RHONE-POULENC SECTEUR AGROCHIMIE																	
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	
Lucence by rour of appredicton.	v	v	J	Ŭ	5	Ŭ	-	v	5	v	v	v	v	Ŭ	5	-	
RICHARD WOLF GMBH																	
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	0	1	0	0	0	0	0	0	0	1	
RICHARDSON CHEMICAL COMPANY																	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
ROGERS CORPORATION																	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
SEAGATE TECHNOLOGY	•	0	0	0	0	0	0	•	1	0	0	0	0	0	<u>^</u>	1	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	0	0	0	1 0	0	0	0	0	0	0	1	
Facence by rear of Apprication:	0	U	U	U	0	1	0	U	0	U	U	U	U	U	0	Ŧ	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	d: Jan (1, 1977	- Dec 31	, 1998)	R	anked Li	st of Org	ganizati	ons with	1 or	More Pat	ents	
	Pre																
	1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
SEMATECH, 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	0	0	1	0	0	0	0	0	0	0	1	
SEMICONDUCTOR ENERGY LABORATORY CO.,	LTD.																
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	õ	0	ů 0	0	0	0	0	0	1	ů 0	0	ů 0	1	
Facences by leaf of Application:	U	U	U	U	U	U	U	U	U	U	U	1	U	U	U	-	
SHIONOGI + CO. LTD.	•	•	•		•	•	•	•	•	•	•	•	•	•	•	-	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
SINCLAIR OIL 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	
SONY CORPORATION																	
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	1	0	0	0	1	
SONY ELECTRONICS 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	0	0	0	0	0	1	0	0	1	
Facences by leaf of Application:	U	U	U	U	U	U	U	U	U	U	U	U	-	U	U	-	
STANDARD OIL COMPANY	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	-	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
STERLING CHEMICALS, INC.																	
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	
TANDEM COMPUTERS INCORPORATED																	
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	1	0	0	0	0	1	
	-	-	-	-	-	-	-				-	-	-	-	-	-	
TOKYO ROPE MANUFACTURING CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	U	U	U	U	U	U	U	U	U	T	U	U	U	U	U	T	
TOWMOTOR 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	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1998

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1998)	I	Ranked Li	st of Org	ganizati	ons with	1 or	More Pat	ents	
	Pre 1985	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL	
	1905	1905	1980	1907	1988	1909	1990	1991	1992	1995	1994	1995	1990	1997	1998	IOIAL	
TOYOTA JIDOSHA K.K.																	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
ULTRAPOINTE CORPORATION																	
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	
UNITED TECHNOLOGIES CORPORATION																	
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	0	0	1	0	0	0	0	0	0	0	1	
WANGNER SYSTEMS CORPORATION																	
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	
WHIRLPOOL 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	
Other Organizations (0)																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	