PTMD PROFILE REPORT

U.S. (FEDERAL) GOVERNMENT PATENTING

1/1977 - 12/2003



March 2004 U.S. PATENT AND TRADEMARK OFFICE OFFICE OF ELECTRONIC INFORMATION PRODUCTS/ PTMD PK3 - Suite 441, WASHINGTON, DC 20231 tel (703) 306-2600 / FAX (703) 306-2737

A PATENT TECHNOLOGY MONITORING DIVISION REPORT

PTMD Profile Report 1/1977 - 12/2003 Explanation of Data

This Patent Technology Monitoring Division (PTMD) report profiles patent activity for all U.S. patent documents (design, plant, reissue, and utility patents, defensive publications, and statutory invention registrations) granted between January 1, 1977 and December 31, 2003 for which ownership was assigned to a Federal organization at the time of grant. The source of the data used for this report is the PTMD data base maintained by the Office of 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 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 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 Federal organizations which have received 1 or more U.S. patents since 1977. Information on patent ownership reflects ownership at the time of patent grant (see explanation for Parts A1 and A2, above). 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.

complete for 2000 filings. They are essentially complete for applications filed prior to

1998.

^{*} As of December 31, 2003, UTILITY patent application data (most issued patent documents are utility patents) were approximately 93% complete for patent applications filed in 1998, and 77% complete for applications filed in 1999 and 52%

Part A1 Patent Grants as Distributed By Year of Patent Grant

---- Technology Assessment and Forecast Report ----

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS) Page A1- 1

		Patents	Granted	l By Da	ite Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	2003)					
				•													
							NU	MBER OF	PATENTS								
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total	
Total	14646	1064	1272	1225	1234	1310	1083	960	974	1039	999	961	985	939	890	29581	
U.S. Origin	14532	1059	1268	1218	1226	1299	1076	955	963	1030	995	954	975	927	880	29357	
Foreign Origin	114	5	4	7	8	11	7	5	11	9	4	7	10	12	10	224	
UNITED KINGDOM	26	1				1				1	1	1	1		1	33	
GERMANY	9	2	1	2		1		3	2	3		1	1	4		29	
CANADA	18	1				1	2				1	1			2	26	
ISRAEL	11		1	1	1	1	1	1	2				1		1	21	
INDIA	15		2		2											19	
JAPAN	6			1		3	2		1	2			1		1	17	
ITALY					2				2	1		1	2	1		9	
RUSSIAN FEDERATION					_				_	_		1	2	5	1	9	
GREECE	7											_	_		_	7	
FRANCE	3	1				1						2				7	
AUSTRALIA	3	-			1	-	1					_			1	6	
SWITZERLAND	2				1	2	_				1				-	6	
TURKEY	4				-						-					4	
TAIWAN	-			1					1				1			3	
BRAZIL							1		1	1			_			3	
BELGIUM							_		1	_					2	3	
NORWAY	2															2	
FINLAND	1									1						2	
CHINA P.REP.	2									_						2	
SOUTH KOREA	2										1			1		2	
EGYPT	2															2	
KENYA	2												1		1	2	
KENYA SWEDEN	1												1		_	1	
	1																
YUGOSLAVIA						1										1	
VENEZUELA	1															1	
ARAB EMIRATES				-				1								1	
POLAND				1					-							1	
JORDAN NETHERLANDS	1								1							1	
	1																
TANZANIA				1												1	
BULGARIA SINGAPORE					1									-		1 1	
SINGAPORE														1		1	
Ownership:																	
U.S. Corporations																0	
U.S. Corporations U.S. Government	14646	1064	1272	1225	1234	1310	1083	960	974	1039	999	961	985	939	890	29581	
U.S. Individuals	14040	1004	14/4	1443	1434	1310	1003	300	J/4	1039	222	301	303	232	030	29581	
U.S. INGIVIDUALS																U	
Foreign Corporations																0	
Foreign Government																0	
Foreign Individuals																0	
Foreign individuals																U	

---- Technology Assessment and Forecast Report ----

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS) Page A1- 2

U.S. ofsigin 99 100 100 99 99 99 99 99 99 99 99 99 99 99 99 9	J.S. FEDERAL GOVERNMENT	(UTILITY,	DESIGN,	PLANT, RE	ISSUE PA	ATENTS, S	STATUTOR	I INVENTI	ON REGIS	TRATIONS	, DEFENS	IAE BORD	ICATIONS	,		Page	A1- 2
Per 199			Patents	Granted	. By Da	ate Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	2003)				
Per 199								PE	ERCENT OF	PATENTS							
UN.5 ofisin 99 100 100 99 99 99 99 99 99 99 99 99 99 99 99 9		Pre 1990	1990	1991	1992	1993	1994					1999	2000	2001	2002	2003	Total
TROTEIR KINGOM SINTED KINGOM GEMANY GARAGA 1 S	[otal																
NITED KINGON (REMANY CANADA 1 SARAL 1 ON 1	U.S. Origin	99	100	100	99	99	99	99	99	99	99	100	99	99	99	99	99
CRAMAN	Foreign Origin	1			1	1	1	1	1	1	1		1	1	1	1	1
INDIA																	
INDIA JAPAN ITALY TRAIT TRAI																	
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TRIATY RUSSIAN FEDERATION RUSSIAN FEDERATION RUSSIAN FEDERATION REALIAN RUSTICALIAN RUTTICALIAN RUTTICALIAN RUTTICALIAN RUTTICALIAN RUTANAN REALIAN REALI	INDIA																0
RISIAN FEDERATION	JAPAN																0
RISIAN FEDERATION	ITALY																0
RERCE															1		
PRANCE AUSTRALIA SINTIZERIAND TURKEY TATIWAN RAZIL BELGIUM NORNAY FINLAND FINL															•		
SNITZERLAND TURKEY TATIVAN BRAZIL BELGIUM NORNAY FINLAND CHINA P.REP. SOUTH KOREA SOUTH																	
SNITZERLAND TURKEY TATIVAN BRAZIL BELGIUM NORNAY FINLAND CHINA P.REP. SOUTH KOREA SOUTH	AUSTRALIA																0
TAIWN RRAZIL REGIUM NORMAY FINAND CHINA P.REP. SOUTH KOREA SOUT																	
TAIWAN BRAZIL BELGIUM NORMAY FINLAND CHINA P.REP. SOUTH KOREA ECYPT KENYA SWEDEN YUGOSLAVIA VENSZUELA ARAB EMIRATES FOLAND JORNAN STELLELANDS TAIXANIA BULGARIA STELLELANDS TAIXANIA BULGARIA SULGARIA SULGA																	
BRAZIL BELGIUM SILVANO SONOHNAY FINLAND CHINA P.REP. SOUTH KOREA EGYPT KENYA SWEDEN JUGOSLAVIA SWEDEN JUGOSLAVIA SWEDEN JUGOSLAVIA SWEDEN JUGOSLAVIA SWEDEN JUGOSLAVIA SULARAB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA SULARB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA SULARB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA SULARB EMIRATES SULARB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA SULARB EMIRATES SULARB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA SULARB EMIRATES																	-
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NORWAY FILLALD FILLALD CHINA P.REP. SOUTH KOREA EGYPT KENYA SWEDEN SWEDE																	
FINLAND CHINA P.REP. SOUTH KOREA EGYPT KENYA SWEDEN YUGOSLAVIA VENEZUELA ARAB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA BULGARIA SINGAPORE SINGAPORE WIGOSLAVIA VENEZUELA ARAB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA BULGARIA SINGAPORE WIGOSLAVIA WICOSLAVIA WIGOSLAVIA WIGOSLAVI																	
CHINA P.REP. SOUTH KOREA EGYPT KENYA KENYA SMEDEN YUGOSLAVIA VENEZUELA ARAB EMIRATES POLAND JORDAN NETHERLANDS STANZANIA BULGARIA SINGAPORE U.S. CORPORATIONS U.S. CORPORATIONS Foreign CORPORATION F																	-
SOUTH KOREA																	
EGYPT KENYA SWEDEN YUGOSLAVIA VENEZUELA ARAB EMIRATES POLAND JORDAN NETHERLANDS TANZANIA SINGAPORE U.S. COTPORATIONS U.S. Government 100 100 100 100 100 100 100 100 100 10	CHINA P.REP.																0
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SWEDEN	EGYPT																0
YUGOSLAVIA VENEZUELA ARAB EMTRATES POLAND JORDAN NETHERLANDS TANZANIA BUIGARIA SINGAPORE S	KENYA																0
YUGOSLAVIA VENEZUELA ARAB EMIRATES FOLAND OCORDAN NETHERLANDS TANZANIA BULGARIA SINGAPORE																	
VENEZUELA ARAB EMIRATES FOLAND SOLAND NETHERLANDS TANZANIA BULGARIA SINGAPORE SI																	
ARAB EMIRATES FOLAND JORDAN NETHERLANDS TANZANIA BULGARIA SINGAPORE SI																	
POLAND JORDAN NETHERLANDS TANZANIA BULGARIA SINGAPORE SINGAPORE J.S. Corporations J.S. Government 100 100 100 100 100 100 100 100 100 10																	-
JORDAN NETHERLANDS TANZANIA BULGARIA SINGAPORE S.S. Corporations C.S. Government 100 100 100 100 100 100 100 100 100 10																	
NETHERLANDS TANZANIA BULGARIA SINGAPORE J.S. Corporations J.S. Government 100 100 100 100 100 100 100 100 100 10																	
TANZANIA BULGARIA SINGAPORE SINGAPORE J.S. Corporations J.S. Government 100 100 100 100 100 100 100 100 100 10																	
BULGARIA SINGAPORE ership: .s. Corporations .s. Government 100 100 100 100 100 100 100 100 100 10																	
SINGAPORE 0 nership: J.S. Corporations J.S. Government 100 100 100 100 100 100 100 100 100 10																	
nership: U.S. Corporations U.S. Government 100 100 100 100 100 100 100 100 100 10																	
U.S. Corporations U.S. Government 100 100 100 100 100 100 100 100 100 10	SINGAPORE																0
U.S. Government 100 100 100 100 100 100 100 100 100 10	mership:																
U.S. Individuals Foreign Corporations Foreign Government 0	U.S. Corporations																
Foreign Corporations Foreign Government 0	U.S. Government	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Foreign Government	U.S. Individuals																0
Foreign Government	Foreign Cornerations																^
Foreign Individuals																	
	Foreign Individuals																0

Part A2 Patent Grants as Distributed By Year of Patent Application

Page A2- 1

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS)

Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) NUMBER OF PATENTED APPLICATIONS Pre 1990 Total Total U.S. Origin Foreign Origin UNITED KINGDOM GERMANY CANADA ISRAEL INDIA JAPAN ITALY RUSSIAN FEDERATION FRANCE GREECE AUSTRALIA SWITZERLAND TURKEY TAIWAN BELGIUM BRAZIL NORWAY FINLAND CHINA P.REP. EGYPT KENYA SOUTH KOREA TANZANIA YUGOSLAVIA SWEDEN VENEZUELA ARAB EMIRATES POLAND JORDAN BULGARIA NETHERLANDS SINGAPORE Ownership: U.S. Corporations U.S. Government U.S. Individuals Foreign Corporations Foreign Government Foreign Individuals

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS) Page A2- 2

	•	•	•		•					•			•				
	Pat	tents Gr	ranted B	y Date	Of Pat	ent App	olication	(Grant	ed: Jan	01, 1977	- Dec 3	1, 2003)					
				_													
						P	PERCENT C	F PATENT	ED APPLI	CATIONS							
	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	99	99	99	99	100	99	99	99	99	99	99	99	99	100	100	99	
Foreign Origin	1	1	1	1		1	1	1	1	1	1	1	1			1	
UNITED KINGDOM																0	
GERMANY																0	
CANADA																0	
ISRAEL																0	
INDIA																0	
JAPAN																0	
ITALY																0	
RUSSIAN FEDERATION																0	
FRANCE																0	
GREECE																0	
AUSTRALIA																0	
SWITZERLAND																0	
TURKEY																0	
TAIWAN																0	
BELGIUM																0	
BRAZIL																0	
NORWAY																0	
FINLAND																0	
CHINA P.REP.																0	
EGYPT																0	
KENYA																0	
SOUTH KOREA																0	
TANZANIA																0	
YUGOSLAVIA																0	
SWEDEN																0	
VENEZUELA																0	
ARAB EMIRATES																0	
POLAND																0	
JORDAN																0	
BULGARIA																0	
NETHERLANDS																0	
SINGAPORE																0	
Ownership:																•	
U.S. Corporations		100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
U.S. Government	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Individuals																0	
Banadan Garage																^	
Foreign Corporations																0	
Foreign Government																0	
Foreign Individuals																U	

Part B Ranked Listing of Organizations with Patent Grants As Distributed By Year of Patent Grant

and As Distributed By Year of Patent Application

Technology Assessment and Forecast Report

UNITED STATES OF AMERICA, TENNESSEE VALLEY AUTHORITY

Patents By Year of Grant:

Patents By Year of Application:

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS) Page B - 1																
U.S. FEDERAL GOVERNMENT (UTILITY, DES	IGN, PLA	NT, REIS	SUE PATE	SNTS, STA	TUTORY II	NVENTION	KEGISTR	ATIONS,	DEFENSIV	E PUBLIC	ATIONS)				Page	B - 1
Organizational Patenting				(Granto	d. Jan O	1 1977	- Deg 31	20037	=	anked Ii	et of or	canizati	one with	1 0~	More Pat	ents
Organizational Patenting				(Grante	u. Jan U.	L, 13//	- Dec 31	, 2003)	K	ankeu Ll	SC OI OI	ganizati	.OIIS WICH	1 01	more Pat	encs
	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	3723	276	396	314	360	395	347	294	299	345	358	365	326	386	365	8549
Patents By Year of Application:	4439	371	331	368	368	315	342	334	372	353	274	295	265	118	4	8549
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	2935	170	201	168	184	203	191	155	170	166	142	148	165	149	131	5278
Patents By Year of Application:	3232	171	172	214	205	188	205	178	143	153	140	141	99	36	1	5278
UNITED STATES OF AMERICA, DEPARTMENT																
Patents By Year of Grant:	2945	240	215	250	182	205	119	71	69	62	53	57	69	45	42	4624
Patents By Year of Application:	3358	229	227	178	166	78	69	67	56	55	48	52	29	12	0	4624
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	1925	114	149	145	139	138	86	104	94	84	91	84	106	76	68	3403
Patents By Year of Application:	2171	154	135	131	112	101	106	94	83	90	84	70	52	20	0	3403
INTER GENERA OF AMERICA MARTONAL ARE	DOMA TIME C	a 2200 ar	3.CE 3.DW		.017											
UNITED STATES OF AMERICA, NATIONAL AE Patents By Year of Grant:	1356	S AND SE 128	ACE ADMI	NISTRATI 151	ON 166	160	122	104	97	95	93	97	92	84	80	2976
Patents By Year of Application:	1583	138	170	151	167	125	110	99	94	99	69	87	53	22	1	2976
racence by rear or appricacion.	1303	130	170	133	107	123	110	,,,	74	,,,	0,5	07	33	22	-	2370
UNITED STATES OF AMERICA, HEALTH & HU	MAN SERV	ICES														
Patents By Year of Grant:	366	38	50	76	85	108	97	117	150	169	139	97	103	90	86	1771
Patents By Year of Application:	511	84	98	130	127	186	212	71	103	67	73	65	38	5	1	1771
• • • • • • • • • • • • • • • • • • • •																
UNITED STATES OF AMERICA, DEPARTMENT	OF AGRIC	ULTURE														
Patents By Year of Grant:	635	49	47	55	54	38	49	41	49	75	71	55	67	51	63	1399
Patents By Year of Application:	733	58	58	39	49	51	67	74	65	51	47	53	42	12	0	1399
UNITED STATES OF AMERICA, DEPARTMENT	OF THE I	NTERIOR														
Patents By Year of Grant:	332	8	18	20	10	10	14	17	6	3	5	7	5	12	7	474
Patents By Year of Application:	349	20	16	9	12	18	10	3	5	10	7	5	10	0	0	474
UNITED STATES OF AMERICA, DEPARTMENT																
Patents By Year of Grant:	92	18	8	18	27	34	26	23	18	15	20	21	21	17	12	370
Patents By Year of Application:	118	15	22	42	30	26	23	12	17	24	16	15	9	1	0	370
UNITED STATES OF AMERICA																
Patents By Year of Grant:	100	7	16	18	8	5	14	16	9	8	8	1	1	3	2	216
Patents By Year of Application:	128	17	7	9	13	9	20	1	7	1	3	1	0	0	0	216

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Organizational Patenting		(Grante	d: Jan 0	1, 1977	- Dec 31	, 2003)	Ranked List of Organizations with 1 or More Patents									
	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
UNITED STATES OF AMERICA, ENVIRONMENT																
Patents By Year of Grant:	47	4	6	2	8	4	5	8	7	3	4	9	12	6	8	133
Patents By Year of Application:	53	6	6	4	7	6	12	2	8	2	10	7	7	2	1	133
UNITED STATES OF AMERICA, DIRECTOR NA	ATIONAL S	ECURITY :	AGENCY													
Patents By Year of Grant:	29	3	2	3	8	4	3	3	1	8	5	17	11	10	15	122
Patents By Year of Application:	43	2	1	5	4	4	2	2	13	11	14	13	6	2	0	122
UNITED STATES OF AMERICA, DEPARTMENT	OF TRANS	PORTATIO	N													
Patents By Year of Grant:	21	0	2	0	2	1	0	0	1	3	2	1	0	6	0	39
Patents By Year of Application:	24	1	1	0	0	0	0	3	4	1	0	4	1	0	0	39
UNITED STATES OF AMERICA, FEDERAL CON	MINIT CA TI	ONG COMM	TCCTON													
Patents By Year of Grant:	MMUNICATI 15	ONS COMM	1551ON 0	0	0	0	0	0	0	0	1	0	1	0	0	17
Patents By Year of Application:	15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	17
ratenes by rear of Application:	13	U	U	U	U	U	U	U	1	U	1	U	U	U	U	17
UNITED STATES OF AMERICA, VETERANS ADMINISTRATION																
Patents By Year of Grant:	10	0	0	0	0	0	0	0	0	0	0	0	1	2	4	17
Patents By Year of Application:	10	0	0	0	0	0	0	0	0	0	1	2	4	0	0	17
UNITED STATES OF AMERICA POSTAL SERVI	ICE															
Patents By Year of Grant:	5	0	1	0	0	1	0	1	1	0	0	0	2	1	4	16
Patents By Year of Application:	6	0	0	1	1	0	0	1	0	0	2	2	2	1	0	16
UNITED STATES OF AMERICA, TREASURY	_			•				_							•	_
Patents By Year of Grant:	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	7
Patents By Year of Application:	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7
UNITED STATES OF AMERICA, LIBRARY OF	CONGRESS	:														
Patents By Year of Grant:	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	4
Patents By Year of Application:	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	4
UNITED STATES OF AMERICA, ATTORNEY GR	ENERAL															
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
UNITED STATES OF AMERICA, DEPARTMENT	OF STATE	,														
Patents By Year of Grant:	OF STATE	. 0	0	0	0	0	1	0	0	0	0	0	1	0	0	2
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
racenes by rear or imprinacion.		v	J	•	-	v	v	•		v	_	•	•	•	J	-
UNITED STATES OF AMERICA, FEDERAL RES	SERVE BAN	K OF BOS	TON													
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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U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS)

	Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 2003)	I	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	tents	-
		Pre																
		1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
UNITED STA	TES OF AMERICA, FEDERAL RESE	ERVE BANI	K OF RIC	HMOND														
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	
UNITED STA	TES OF AMERICA, FEDERAL TRAI	DE COMMIS	SSION															
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	
UNITED STA	UNITED STATES OF AMERICA, NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY																	
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	
UNITED STA	TES OF AMERICA, NATIONAL SCI	ENCE FO	UNDATION	•														
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	
UNITED STA	TES OF AMERICA, SMALL BUSINE	ESS ADMIN	NISTRATI	ON														
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 Organ	nizations (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	