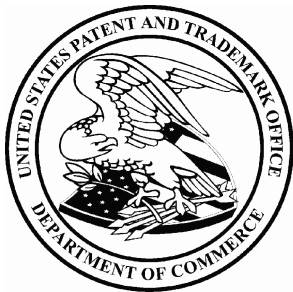


PTMD PROFILE REPORT

U.S. (FEDERAL) GOVERNMENT PATENTING

1/1977 - 12/2003



March 2004
U.S. PATENT AND TRADEMARK OFFICE
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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.

* 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% complete for 2000 filings. They are essentially complete for applications filed prior to 1998.

Part A1

Patent Grants as Distributed By Year of Patent Grant

Part A2

Patent Grants as Distributed By Year of Patent Application

Part B

**Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application**

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 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, 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 OF ENERGY																	
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	
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																	
Patents By Year of Grant:	1356	128	151	151	166	160	122	104	97	95	93	97	92	84	80	2976	
Patents By Year of Application:	1583	138	170	159	167	125	110	99	94	99	69	87	53	22	1	2976	
UNITED STATES OF AMERICA, HEALTH & HUMAN SERVICES																	
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 AGRICULTURE																	
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 INTERIOR																	
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 OF COMMERCE																	
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	
UNITED STATES OF AMERICA, TENNESSEE VALLEY AUTHORITY																	
Patents By Year of Grant:	96	9	10	5	1	4	8	3	3	3	7	2	2	1	1	155	
Patents By Year of Application:	112	6	3	2	8	3	4	5	4	4	2	1	0	1	0	155	

