

PTMB PROFILE REPORT

U.S. (FEDERAL) GOVERNMENT PATENTING

1/1977 - 12/2005



September 2006
U.S. PATENT AND TRADEMARK OFFICE
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A PATENT TECHNOLOGY MONITORING BRANCH REPORT

PTMB Profile Report
1/1977 - 12/2005
Explanation of Data

This Patent Technology Monitoring Branch (PTMB) 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, 2005 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 TAF database maintained by the Electronic Information Products Division.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

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

Patent data in the "Pre 1992" column corresponds to the period January 1, 1977 through December 31, 1991.

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 30% 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 2005**. 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 and 2005 when the PTO issued

fewer patents than would normally have been expected due to administrative reasons. 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 name.

* As of December 31, 2005, UTILITY patent application data (most issued patent documents are utility patents) were approximately 97% complete for patent applications filed in 1999, 90% complete for applications filed in 2000, 77% complete for applications filed in 2001, 62% complete for applications filed in 2002, and 34% complete for applications filed in 2003; data are essentially complete for applications filed prior to 1999. Currently, completion percentages restricted to Federal Government patents are not available.

Part A1

Patent Grants as Distributed By Year of Patent Grant

Page A1- 1

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

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Part A2

Patent Grants as Distributed By Year of Patent Application

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Page A2- 2

[illegible]

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 ----

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

Page B - 1

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2005) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre															
	1992	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	TOTAL
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	4440	321	363	397	352	299	303	346	360	366	326	388	366	322	262	9211
Patents By Year of Application:	5205	372	369	318	351	338	376	360	288	330	345	308	196	54	1	9211
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	3309	169	184	204	192	156	170	167	143	147	165	150	131	135	127	5549
Patents By Year of Application:	3579	215	206	189	207	178	146	157	151	155	130	128	83	24	1	5549
UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY																
Patents By Year of Grant:	3401	250	182	205	119	71	69	63	53	57	69	45	43	40	22	4689
Patents By Year of Application:	3822	178	168	78	69	68	56	55	48	57	41	37	11	1	0	4689
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	2189	145	139	138	86	104	94	84	91	84	106	76	68	55	55	3514
Patents By Year of Application:	2462	131	112	101	106	94	83	92	85	75	75	52	36	9	1	3514
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																
Patents By Year of Grant:	1637	152	166	160	122	104	97	95	93	97	92	85	80	89	86	3155
Patents By Year of Application:	1894	159	167	125	111	99	95	102	72	101	87	95	41	7	0	3155
UNITED STATES OF AMERICA, HEALTH & HUMAN SERVICES																
Patents By Year of Grant:	459	83	89	110	104	123	152	174	142	97	103	92	87	118	81	2014
Patents By Year of Application:	711	136	138	193	226	73	103	70	91	93	115	49	15	1	0	2014
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	733	55	54	38	49	41	49	75	71	55	67	51	63	41	29	1471
Patents By Year of Application:	851	39	49	51	67	74	65	52	51	57	69	35	10	1	0	1471
UNITED STATES OF AMERICA, DEPARTMENT OF THE INTERIOR																
Patents By Year of Grant:	358	20	10	10	14	17	8	3	5	7	5	12	7	11	9	496
Patents By Year of Application:	385	9	12	18	12	3	5	10	7	8	16	4	5	2	0	496
UNITED STATES OF AMERICA, DEPARTMENT OF COMMERCE																
Patents By Year of Grant:	118	19	27	34	26	24	18	15	21	21	21	20	12	9	4	389
Patents By Year of Application:	156	42	30	26	25	12	18	24	16	18	13	9	0	0	0	389
UNITED STATES OF AMERICA, TENNESSEE VALLEY AUTHORITY																
Patents By Year of Grant:	115	5	1	4	8	3	3	3	7	2	2	1	1	2	0	157
Patents By Year of Application:	121	2	8	3	4	5	4	4	2	2	0	2	0	0	0	157
UNITED STATES OF AMERICA, ENVIRONMENTAL PROTECTION AGENCY																
Patents By Year of Grant:	59	2	8	4	5	9	7	3	4	9	12	6	8	8	6	150
Patents By Year of Application:	67	4	7	7	12	2	8	2	10	8	10	6	7	0	0	150

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

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

Page B - 2

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2005) ----- Ranked List of Organizations with 1 or More Patents -----

	Pre 1992	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	TOTAL
UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY																
Patents By Year of Grant:	34	3	8	4	3	3	1	8	7	17	11	10	15	10	9	143
Patents By Year of Application:	47	5	4	4	3	3	14	11	14	17	10	8	2	1	0	143
UNITED STATES OF AMERICA																
Patents By Year of Grant:	58	0	1	0	1	0	0	1	0	0	1	0	0	0	0	62
Patents By Year of Application:	59	0	1	0	1	0	1	0	0	0	0	0	0	0	0	62
UNITED STATES OF AMERICA, DEPARTMENT OF TRANSPORTATION																
Patents By Year of Grant:	27	0	2	1	0	2	2	3	2	1	0	6	0	2	1	49
Patents By Year of Application:	30	0	0	1	2	3	5	2	0	4	1	1	0	0	0	49
UNITED STATES OF AMERICA POSTAL SERVICE																
Patents By Year of Grant:	6	0	0	1	0	1	1	0	0	0	2	1	4	2	13	31
Patents By Year of Application:	6	1	1	0	0	1	0	0	2	6	2	5	6	1	0	31
UNITED STATES OF AMERICA, VETERANS ADMINISTRATION																
Patents By Year of Grant:	10	0	0	0	0	0	0	0	0	0	1	2	4	1	7	25
Patents By Year of Application:	10	0	0	0	0	0	1	0	1	4	6	2	1	0	0	25
UNITED STATES OF AMERICA, FEDERAL COMMUNICATIONS COMMISSION																
Patents By Year of Grant:	15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	17
Patents By Year of Application:	15	0	0	0	0	0	1	0	1	0	0	0	0	0	0	17
UNITED STATES OF AMERICA, TREASURY																
Patents By Year of Grant:	6	1	0	0	0	2	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	7	0	0	1	1	0	0	0	0	0	0	0	0	0	0	9
UNITED STATES OF AMERICA, LIBRARY OF CONGRESS																
Patents By Year of Grant:	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	4
Patents By Year of Application:	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4
UNITED STATES OF AMERICA, ATTORNEY GENERAL																
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:	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:	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	3
Patents By Year of Application:	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	3
ARMY & AIR FORCE EXCHANGE SERVICE																
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

---- Ranked List of Organizations with 1 or More Patents ----

Other Organizations (0)