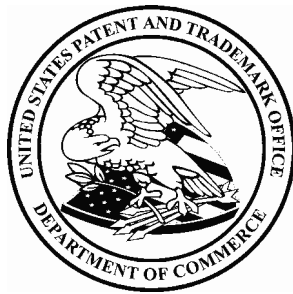


# PROFILE REPORT

## U.S. (FEDERAL) GOVERNMENT PATENTING

1/1977 - 12/2010



March 2011  
U.S. PATENT AND TRADEMARK OFFICE  
ELECTRONIC INFORMATION PRODUCTS DIVISION - PTMT  
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*A PATENT TECHNOLOGY MONITORING TEAM REPORT*

## U.S. (Federal) Government Patenting Report 1/1977 - 12/2010 Explanation of Data

This Patent Technology Monitoring Team (PTMT) 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, 2009** for which ownership was assigned to a Federal organization at the time of grant. Most of these patents are utility patents, also known as "patents for inventions". The source of the data used for this report is the TAF database maintained by the U.S. Patent and Trademark Office.

### 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 1997**" column correspond to the period **prior to 1997**.

#### **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 35% 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 35 months, the patented application data for the most recent years are incomplete.\* This is because the patents included in this report are limited to those **granted** during the specified time period. However, a significant number of the applications filed during the most recent years of this time period were still pending at the end of the period. While many of these applications eventually will be patented, they will not be patented until sometime following the end of the period displayed 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.

Patent data in the "**Pre 1997**" column correspond to the period **prior to 1997**.

#### 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**.

**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 Corporation ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in these categories. While U.S. Government patent ownership includes only patents granted to the Federal Government, no similar distinction is made for Foreign Government patents.

Note that for a patent, the country of origin may differ from the country of ownership. Therefore, the **sum of U.S. origin patents does not equal the sum of U.S. ownership category patents**.

**Part B** is a ranked listing of Federal Government organizations that 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.

\* For example, in a report profiling utility patents granted through December 2010, patent grant data, as distributed by year of application are approximately 90% complete for utility patent applications filed in 2003, 80% complete for applications filed in 2004, 66% complete for applications filed in 2005, 50% complete for applications filed in 2006, 33% complete for applications filed in 2007, and 17% complete for applications filed in 2008; data are essentially complete for applications filed prior to 2003. Currently, completion percentages restricted to Federal Government patents are not available.

## Part A1

Patent Grants as Distributed By Year of Patent Grant

	(Granted: Jan 01, 1977 - Dec 31, 2010)															
	NUMBER OF PATENTS															
	Pre 1997	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
Total	22795	974	1040	1000	960	985	945	891	859	713	815	739	693	710	937	35056
U.S. Origin	22633	963	1031	996	953	975	933	881	855	699	801	728	683	704	917	34752
Foreign Origin	162	11	9	4	7	10	12	10	4	14	14	11	10	6	20	304
GERMANY	18	2	3		1	1	4		2	3	1	2	2		3	42
UNITED KINGDOM	28		1	1	1	1		1		2	1	1		1	2	40
CANADA	22			1	1			2	1	1	2	1			1	32
JAPAN	12	1	2			1		1			1	3	2	2	5	30
ISRAEL	18	2				1		1		1	1	1	1		1	27
INDIA	19										1	1				19
ITALY	2	2	1		1	2	1		1	1	1				2	14
FRANCE	5				2					1	1	1	1			11
RUSSIAN FEDERATION					1	2	5	1					1	1		11
KOREA, SOUTH				1			1			4	1	1				8
GREECE	7															7
SWITZERLAND	5			1												6
AUSTRALIA	5							1								6
BRAZIL	1	1	1								1				1	5
KENYA						1		1					1	2		5
TURKEY	4															4
BELGIUM		1						2			1					4
TAIWAN	1	1				1										3
POLAND	1														1	2
SWEDEN	1											1				2
FINLAND	1		1													2
YUGOSLAVIA / SERBIA-M	1									1						2
CHINA, PEOPLE'S REPUB	2															2
EGYPT	2															2
NORWAY	2															2
NETHERLANDS	1															2
SINGAPORE							1						1			2
THAILAND											1				1	2
UKRAINE											1		1			2
VENEZUELA	1															1
UNITED ARAB EMIRATES	1															1
TANZANIA	1															1
AUSTRIA											1					1
JORDAN		1														1
BULGARIA	1															1
DENMARK															1	1
Others ( 1 )															1	1
Ownership:																
U.S. Corporations																0
U.S. Government	22795	974	1040	1000	960	985	945	891	859	713	815	739	693	710	937	35056
U.S. Individuals																0
Foreign Corporations																0
Foreign Government																0
Foreign Individuals																0

	----	Patents	Granted	By	Date	Of	Patent	Grant	(Granted: Jan 01, 1977 - Dec 31, 2010)					----			
	PERCENT OF PATENTS																
	Pre	1997	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
Total		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin		99	99	99	100	99	99	99	99	100	98	98	99	99	99	98	99
Foreign Origin		1	1	1		1	1	1	1		2	2	1	1	1	2	1
GERMANY																	0
UNITED KINGDOM																	0
CANADA																	0
JAPAN																1	0
ISRAEL																	0
INDIA																	0
ITALY																	0
FRANCE																	0
RUSSIAN FEDERATION								1									0
KOREA, SOUTH											1						0
GREECE																	0
SWITZERLAND																	0
AUSTRALIA																	0
BRAZIL																	0
KENYA																	0
TURKEY																	0
BELGIUM																	0
TAIWAN																	0
POLAND																	0
SWEDEN																	0
FINLAND																	0
YUGOSLAVIA / SERBIA-M																	0
CHINA, PEOPLE'S REPUB																	0
EGYPT																	0
NORWAY																	0
NETHERLANDS																	0
SINGAPORE																	0
THAILAND																	0
UKRAINE																	0
VENEZUELA																	0
UNITED ARAB EMIRATES																	0
TANZANIA																	0
AUSTRIA																	0
JORDAN																	0
BULGARIA																	0
DENMARK																	0
Others ( 1 )																	0
Ownership:																	
U.S. Corporations																	0
U.S. Government		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Individuals																	0
Foreign Corporations																	0
Foreign Government																	0
Foreign Individuals																	0

## Part A2

Patent Grants as Distributed By Year of Patent Application

Ownership:

[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

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2010) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre 1997	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	TOTAL
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	6172	303	346	360	366	326	388	366	322	262	284	273	229	236	307	10540
Patents By Year of Application:	6960	378	362	292	343	366	351	351	321	271	214	208	87	32	4	10540
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	4214	170	167	143	147	165	150	131	135	127	181	144	130	118	158	6280
Patents By Year of Application:	4581	148	158	155	164	145	162	165	186	174	124	72	31	13	2	6280
UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY																
Patents By Year of Grant:	4228	69	63	53	57	69	45	43	40	22	22	23	17	23	38	4812
Patents By Year of Application:	4383	56	55	48	58	43	43	31	19	19	21	21	11	3	1	4812
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	2801	94	84	91	84	106	76	68	55	55	49	43	46	51	46	3749
Patents By Year of Application:	3009	83	92	85	78	76	74	56	51	66	33	26	18	2	0	3749
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																
Patents By Year of Grant:	2341	97	95	93	97	92	85	80	102	87	62	70	66	86	101	3554
Patents By Year of Application:	2555	95	102	72	104	94	115	94	80	86	73	51	25	8	0	3554
UNITED STATES OF AMERICA, DEPARTMENT OF HEALTH & HUMAN SERVICES																
Patents By Year of Grant:	968	152	174	142	97	103	92	87	118	81	122	100	110	110	136	2592
Patents By Year of Application:	1489	107	80	109	137	165	141	115	76	68	50	37	17	1	0	2592
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	970	49	75	71	55	67	51	63	41	29	39	26	31	27	41	1635
Patents By Year of Application:	1131	65	52	52	60	72	45	42	29	29	17	17	22	2	0	1635
UNITED STATES OF AMERICA, DEPARTMENT OF THE INTERIOR																
Patents By Year of Grant:	429	8	3	5	7	5	12	7	11	9	1	7	1	5	3	513
Patents By Year of Application:	439	5	10	7	8	17	5	8	3	3	2	5	1	0	0	513
UNITED STATES OF AMERICA, DEPARTMENT OF COMMERCE																
Patents By Year of Grant:	248	18	15	21	21	21	20	12	9	4	5	3	5	4	10	416
Patents By Year of Application:	291	18	24	16	19	14	12	2	3	7	2	2	6	0	0	416
UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY																
Patents By Year of Grant:	55	1	8	7	17	11	10	15	10	9	17	12	19	12	27	230
Patents By Year of Application:	66	14	11	15	17	12	16	4	18	21	14	10	5	7	0	230
UNITED STATES OF AMERICA, ENVIRONMENTAL PROTECTION AGENCY																
Patents By Year of Grant:	87	7	3	4	9	12	6	8	8	6	12	10	9	9	11	201
Patents By Year of Application:	99	8	2	10	8	11	7	17	10	14	10	5	0	0	0	201

[illegible]

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2010) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre 1997	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	TOTAL
UNITED STATES OF AMERICA, NATIONAL SCIENCE FOUNDATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	3
Patents By Year of Application:	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	3
UNITED STATES OF AMERICA, FEDERAL RESERVE BANK OF DALLAS																
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	2	0	0	0	0	2
The White House Commission on the National Moment of Remembrance																
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
UNITED STATES OF AMERICA, ARMY & AIR FORCE EXCHANGE SERVICE																
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
UNITED STATES OF AMERICA, CENTRAL INTELLIGENCE AGENCY																
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 STATES OF AMERICA, DEPARTMENT OF HOMELAND SECURITY																
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
UNITED STATES OF AMERICA, FEDERAL AVIATION ADMINISTRATION																
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
UNITED STATES OF AMERICA, FEDERAL BUREAU OF INVESTIGATION																
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	1	0	0	0	0	0	0	0	1
UNITED STATES OF AMERICA, FEDERAL RESERVE BANK OF BOSTON																
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 STATES OF AMERICA, FEDERAL RESERVE BANK OF CHICAGO																
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	1	0	0	0	0	0	1
UNITED STATES OF AMERICA, FEDERAL RESERVE BANK OF CLEVELAND																
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

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

Other Organizations (0)