

STATUTORY INVENTION REGISTRATIONS
AND
DEFENSIVE PUBLICATIONS

JANUARY 1, 1977 -- DECEMBER 31, 2015



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U.S. PATENT AND TRADEMARK OFFICE
ELECTRONIC INFORMATION PRODUCTS DIVISION - PTMT
P.O. Box 1450
ALEXANDRIA, VA 22313-1450
tel (571) 272-5600 / FAX (571) 273-0110

A PATENT TECHNOLOGY MONITORING TEAM REPORT

Statutory Invention Registrations and Defensive Publications Report

1/1/1977 - 12/31/2015

Explanation of Data

This Patent Technology Monitoring Team (PTMT) report profiles patent activity for U.S. statutory invention registrations and defensive publications (hereafter referred to as patents) granted between **January 1, 1977** and **December 31, 2015**. 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 applications were 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, as shown in the "**Pre 2002**" column, correspond to the period **1977** through **2001**.

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 by the year in which the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (HISTORICALLY ABOUT 35% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between the filing for a utility patent and its final disposition (e.g., issued as a patent or abandoned) is now about **26** months (i.e., the patent's "pendency"), the patented application data for applications filed in 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 reporting period. While many of these applications eventually will be patented, they will not be patented until sometime following the end of the reporting period. 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 U.S. Patent and Trademark Office (USPTO) workload which varies between technologies, budget and manpower levels, patent printing schedules, etc.

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, for the most part, such fluctuations would be immune from many of the changes in USPTO processing such as those that occurred in years such as in 1986 and 2005 when the USPTO issued fewer patents than would have normally been expected due to administrative reasons.

"Patents Granted By Date of Patent Application", as shown in the "**Pre 2002**" column, correspond to patents granted during the reporting period but filed prior to **2002**.

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 information 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 may not equal the sum of U.S. ownership category patents**.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) that have received **1** or more U.S. patents 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 applications were filed. Patent ownership information 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.

* For example, in a report profiling utility patents granted through **December 2015**, patent grant data, as distributed by year of application, are approximately 97% complete for utility patent applications filed in 2007, 97% complete for filings in 2008, 91% complete for filings in 2009, 86% complete for filings in 2010, 83% complete for filings in 2011, 69% complete for filings in 2012, 43% complete for filings in 2013, and 16% complete for filings in 2014; data are essentially complete for applications filed prior to 2007. About 90% of all patent documents granted (i.e., utility, design, plant, and reissue patents, statutory invention registrations, and defensive publications) are utility patents. 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

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2015) ----

	NUMBER OF PATENTS															
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total	2494	49	36	20	23	32	29	20	6	17	15	8	14	6		2769
U.S. Origin	2227	49	35	19	23	28	26	20	5	15	14	7	14	4		2486
Foreign Origin	267		1	1		4	3		1	2	1	1		2		283
JAPAN	140															140
UNITED KINGDOM	60					1	1							1		63
CANADA	17									2	1					20
GERMANY	12													1		13
NETHERLANDS	9						1									10
FRANCE	7															7
SWITZERLAND	5															5
AUSTRALIA	3					1										4
INDIA	3											1				4
SOUTH AFRICA	2		1				1									4
ITALY	3															3
BELGIUM	3															3
INDONESIA	1															1
SWEDEN	1															1
TAIWAN	1															1
ISRAEL				1												1
CZECH REPUBLIC						1										1
AUSTRIA						1										1
MALAYSIA								1								1
Ownership:																
U.S. Corporations	682	27	25	7	10	8	14	9	2	9	3	2	4	6		808
U.S. Government	1049	19	7	12	11	18	10	10	3	5	10	4	7			1165
U.S. Individuals	530	3	2			2	2	1		1	1	1	1			544
Foreign Corporations	143		2		2	3	2				1		2			155
Foreign Government																0
Foreign Individuals	90			1		1	1	1	2			1				97

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2015) ----

	PERCENT OF PATENTS															
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	89	100	97	95	100	88	90	100	83	88	93	88	100	67		90
Foreign Origin	11		3	5		13	10		17	12	7	13		33		10
JAPAN	6															5
UNITED KINGDOM	2					3	3							17		2
CANADA	1									12	7					1
GERMANY														17		0
NETHERLANDS							3									0
FRANCE																0
SWITZERLAND																0
AUSTRALIA						3										0
INDIA												13				0
SOUTH AFRICA			3				3									0
ITALY																0
BELGIUM																0
INDONESIA																0
SWEDEN																0
TAIWAN																0
ISRAEL				5												0
CZECH REPUBLIC							3									0
AUSTRIA							3									0
MALAYSIA									17							0
Ownership:																
U.S. Corporations	27	55	69	35	43	25	48	45	33	53	20	25	29	100		29
U.S. Government	42	39	19	60	48	56	34	50	50	29	67	50	50			42
U.S. Individuals	21	6	6			6	7	5		6	7	13	7			20
Foreign Corporations	6		6		9	9	7				7		14			6
Foreign Government																0
Foreign Individuals	4			5		3	3		17	12		13				4

Part A2

Patent Grants as Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2015) ----

	NUMBER OF PATENTED APPLICATIONS															Total
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Total	2622	34	25	16	9	14	12	7	7	8	9	4	2			2769
U.S. Origin	2352	33	23	13	9	12	10	7	6	8	8	3	2			2486
Foreign Origin	270	1	2	3		2	2		1		1	1				283
JAPAN	140															140
UNITED KINGDOM	61			1								1				63
CANADA	17			1		2										20
GERMANY	12										1					13
NETHERLANDS	9						1									10
FRANCE	7															7
SWITZERLAND	5															5
AUSTRALIA	4															4
INDIA	3								1							4
SOUTH AFRICA	3			1												4
ITALY	3															3
BELGIUM	3															3
INDONESIA	1															1
SWEDEN	1															1
TAIWAN	1															1
ISRAEL		1														1
CZECH REPUBLIC			1													1
AUSTRIA			1													1
MALAYSIA							1									1
Ownership:																
U.S. Corporations	749	16	7	6	4	6	5	2	2	4	2	3	2			808
U.S. Government	1100	14	15	6	4	4	5	5	4	2	5	1				1165
U.S. Individuals	536	1	1	1	1	2					2					544
Foreign Corporations	146	2	2	2		1				2						155
Foreign Government																0
Foreign Individuals	91	1		1		1	2		1							97

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2015) ----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	90	97	92	81	100	86	83	100	86	100	89	75	100			90
Foreign Origin	10	3	8	19		14	17		14		11	25				10
JAPAN	5															5
UNITED KINGDOM	2			6								25				2
CANADA	1			6		14										1
GERMANY											11					0
NETHERLANDS							8									0
FRANCE																0
SWITZERLAND																0
AUSTRALIA																0
INDIA									14							0
SOUTH AFRICA				6												0
ITALY																0
BELGIUM																0
INDONESIA																0
SWEDEN																0
TAIWAN																0
ISRAEL		3														0
CZECH REPUBLIC			4													0
AUSTRIA			4													0
MALAYSIA							8									0
Ownership:																
U.S. Corporations	29	47	28	38	44	43	42	29	29	50	22	75	100			29
U.S. Government	42	41	60	38	44	29	42	71	57	25	56	25				42
U.S. Individuals	20	3	4	6	11	14					22					20
Foreign Corporations	6	6	8	13		7				25						6
Foreign Government																0
Foreign Individuals	3	3		6		7	17		14							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

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2015) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
MI DRILLING FLUIDS COMPANY																	
Patents By Year of Grant:	3	0	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	0	3
MOBIL OIL CORP.																	
Patents By Year of Grant:	2	0	1	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	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	0	3
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
NOVARTIS AG (FORMERLY SANDOZ LTD.)																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3
RHONE-POULENC INC.																	
Patents By Year of Grant:	3	0	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	0	3
SMITH INTERNATIONAL INC.																	
Patents By Year of Grant:	3	0	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	0	3
SUN MICROSYSTEMS, INC.																	
Patents By Year of Grant:	3	0	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	0	3
ADVANCED NUCLEAR FUELS CORPORATION																	
Patents By Year of Grant:	2	0	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	0	2
BELOIT TECHNOLOGIES, INC.																	
Patents By Year of Grant:	2	0	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	0	2
BEXFORD LIMITED IMPERIAL CHEMICAL HOUSE																	
Patents By Year of Grant:	2	0	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	0	2
BORGWARNER INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2

