

STATUTORY INVENTION REGISTRATIONS
AND
DEFENSIVE PUBLICATIONS

JANUARY 1977 -- DECEMBER 2006



March 2007
U.S. PATENT AND TRADEMARK OFFICE
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A PATENT TECHNOLOGY MONITORING TEAM REPORT

Statutory Invention Registrations and Defensive Publications Report

1/1977 - 12/2006

Explanation of Data

This Patent Technology Monitoring Team (PTMT) Report profiles patent activity for statutory invention registrations and defensive publications (hereafter referred to as patents) granted between **1977** and **December 2006**. 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 1993**" column corresponds to the period **January 1, 1977** through **December 31, 1992**.

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 2006**. 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 national and international organizations (i.e., corporations, universities, government agencies) which have received one or more U.S. statutory invention registrations and/or defensive publications 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 application was filed. Information on patent ownership 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.

* As of **December 31, 2006**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 94% complete for patent applications filed in 2000, 86% complete for applications filed in 2001, 76% complete for applications filed in 2002, 54% complete for applications filed in 2003, and 27% complete for 2004 filings. They are essentially complete for applications filed prior to 2000. 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, 2006) -----																
----- NUMBER OF PATENTS -----																
	Pre 1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Total
Total	1623	144	117	121	109	78	62	60	104	76	49	36	20	23	32	2654
U.S. Origin	1441	131	105	111	94	65	56	56	96	72	49	35	19	23	28	2381
Foreign Origin	182	13	12	10	15	13	6	4	8	4		1	1		4	273
JAPAN	86	12	9	7	12	7	3	2	2							140
UNITED KINGDOM	55		1						3	1					1	61
CANADA	10	1	1	1		1	1		2							17
GERMANY	10					1				1						12
NETHERLANDS	7				1	1										9
FRANCE	4		1	1			1									7
SWITZERLAND	3			1	1											5
AUSTRALIA	2									1					1	4
INDIA	2				1											3
ITALY	2						1									3
BELGIUM						2		1								3
SOUTH AFRICA								1	1			1				3
SWEDEN	1															1
INDONESIA						1										1
TAIWAN										1						1
ISRAEL													1			1
AUSTRIA															1	1
CZECH REPUBLIC															1	1
Ownership:																
U.S. Corporations	345	36	34	35	40	29	26	28	65	44	27	25	7	10	8	759
U.S. Government	753	64	49	51	37	22	10	14	25	24	19	7	12	11	18	1116
U.S. Individuals	367	31	24	25	19	18	19	13	10	4	3	2			2	537
Foreign Corporations	96	8	9	5	7	3	6	3	3	3		2		2	3	150
Foreign Government																0
Foreign Individuals	62	5	1	5	6	6	1	2	1	1			1		1	92

----- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2006) -----

	PERCENT OF PATENTS															
	Pre 1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	89	91	90	92	86	83	90	93	92	95	100	97	95	100	88	90
Foreign Origin	11	9	10	8	14	17	10	7	8	5		3	5		13	10
JAPAN	5	8	8	6	11	9	5	3	2							5
UNITED KINGDOM	3		1						3	1					3	2
CANADA	1	1	1	1		1	2		2							1
GERMANY	1					1				1						0
NETHERLANDS					1	1										0
FRANCE			1	1			2									0
SWITZERLAND				1	1											0
AUSTRALIA										1					3	0
INDIA					1											0
ITALY							2									0
BELGIUM						3		2								0
SOUTH AFRICA								2	1			3				0
SWEDEN																0
INDONESIA						1										0
TAIWAN										1						0
ISRAEL													5			0
AUSTRIA															3	0
CZECH REPUBLIC															3	0
Ownership:																
U.S. Corporations	21	25	29	29	37	37	42	47	63	58	55	69	35	43	25	29
U.S. Government	46	44	42	42	34	28	16	23	24	32	39	19	60	48	56	42
U.S. Individuals	23	22	21	21	17	23	31	22	10	5	6	6			6	20
Foreign Corporations	6	6	8	4	6	4	10	5	3	4		6		9	9	6
Foreign Government																0
Foreign Individuals	4	3	1	4	6	8	2	3	1	1			5		3	3

Part A2

Patent Grants As Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2006) ----

	NUMBER OF PATENTED APPLICATIONS															
	Pre 1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Total
Total	1951	120	80	90	72	91	113	46	32	21	23	14	1			2654
U.S. Origin	1741	105	68	80	65	82	110	44	31	20	22	12	1			2381
Foreign Origin	210	15	12	10	7	9	3	2	1	1	1	2				273
JAPAN	110	9	9	4	4	4										140
UNITED KINGDOM	55	2			1		2		1							61
CANADA	12	2			1	2										17
GERMANY	10			1		1										12
NETHERLANDS	7	1	1													9
FRANCE	6				1											7
SWITZERLAND	3		2													5
AUSTRALIA	2							2								4
INDIA	2	1														3
ITALY	2			1												3
BELGIUM				3												3
SOUTH AFRICA						1	1			1						3
SWEDEN	1															1
TAIWAN						1										1
INDONESIA				1												1
ISRAEL											1					1
AUSTRIA												1				1
CZECH REPUBLIC												1				1
Ownership:																
U.S. Corporations	434	46	30	29	33	46	76	26	17	8	11	3				759
U.S. Government	897	46	24	26	23	21	23	14	14	10	8	9	1			1116
U.S. Individuals	436	16	16	26	9	18	10	3		2	1					537
Foreign Corporations	114	6	5	5	5	4	4	1	1	1	2	2				150
Foreign Government																0
Foreign Individuals	70	6	5	4	2	2		2			1					92

----- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2006) -----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100			100
U.S. Origin	89	88	85	89	90	90	97	96	97	95	96	86	100			90
Foreign Origin	11	13	15	11	10	10	3	4	3	5	4	14				10
JAPAN	6	8	11	4	6	4										5
UNITED KINGDOM	3	2			1		2		3							2
CANADA	1	2			1	2										1
GERMANY	1			1		1										0
NETHERLANDS		1	1													0
FRANCE					1											0
SWITZERLAND			3													0
AUSTRALIA								4								0
INDIA		1														0
ITALY				1												0
BELGIUM				3												0
SOUTH AFRICA						1	1			5						0
SWEDEN																0
TAIWAN						1										0
INDONESIA				1												0
ISRAEL											4					0
AUSTRIA												7				0
CZECH REPUBLIC												7				0
Ownership:																
U.S. Corporations	22	38	38	32	46	51	67	57	53	38	48	21				29
U.S. Government	46	38	30	29	32	23	20	30	44	48	35	64	100			42
U.S. Individuals	22	13	20	29	13	20	9	7		10	4					20
Foreign Corporations	6	5	6	6	7	4	4	2	3	5	9	14				6
Foreign Government																0
Foreign Individuals	4	5	6	4	3	2		4			4					3

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, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

[illegible]

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre 1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	TOTAL
EASTMAN KODAK COMPANY																
Patents By Year of Grant:	7	1	0	0	1	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
GENERAL ELECTRIC COMPANY																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	1	3	0	0	0	0	0	9
Patents By Year of Application:	5	0	0	1	0	1	1	1	0	0	0	0	0	0	0	9
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
CONCO INC.																
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
KIMBERLY-CLARK WORLDWIDE, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	4	1	2	0	0	0	8
Patents By Year of Application:	0	0	0	0	1	0	2	5	0	0	0	0	0	0	0	8
KIORITZ CORPORATION																
Patents By Year of Grant:	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8
MEDTRONIC INC.																
Patents By Year of Grant:	5	0	1	1	0	0	0	0	1	0	0	0	0	0	0	8
Patents By Year of Application:	6	1	0	0	0	1	0	0	0	0	0	0	0	0	0	8
BRISTOL-MYERS SQUIBB COMPANY																
Patents By Year of Grant:	0	0	1	1	0	1	2	1	1	0	0	0	0	0	0	7
Patents By Year of Application:	1	1	0	0	3	2	0	0	0	0	0	0	0	0	0	7
EASTMAN CHEMICAL COMPANY																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	1	2	0	2	0	1	0	7
Patents By Year of Application:	0	0	0	0	2	0	0	2	0	1	2	0	0	0	0	7
E. R. SQUIBB + SONS, INC.																
Patents By Year of Grant:	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
ELI LILLY AND COMPANY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	6
Patents By Year of Application:	0	0	0	0	0	3	2	1	0	0	0	0	0	0	0	6

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre 1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	TOTAL
BRUNSWICK CORPORATION																
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
BURROUGHS WELLCOME CO.																
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
CARDIAC PACEMAKERS, INC.																
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	1	0	0	0	0	0	0	0	0	1
CARPENTER TECHNOLOGY CORPORATION																
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
CENTRAL SPRINKLER CORPORATION																
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
CEPHALON, INC.																
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	1	0	0	0	0	0	0	0	0	0	0	1
CHEVRON PRODUCTS COMPANY, A DIVISION OF CHEVRON U.S.A. INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	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
CLAIROL INCORPORATED																
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
CLEMSON UNIVERSITY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	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
COBE LABORATORIES, INC.																
Patents By Year of Grant:	0	0	1	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
COFLEXIP																
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	1	0	0	0	0	0	0	1

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

	Pre															
	1993	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	TOTAL
MORNING PRIDE MANUFACTURING, L.L.C.																
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
MORTON INTERNATIONAL, INC.																
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	1	0	0	0	0	0	0	0	0	0	1
MORTON THIOKOL, INC.																
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
MULTI-TECH SYSTEMS, INC.																
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	1	0	0	0	0	0	0	0	0	1
NATIONAL SEMICONDUCTOR CORPORATION																
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
NEW VENTURE GEAR, INC.																
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
NGK SPARK PLUG CO., LTD.																
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
NIHON NOHYAKU CO. LTD.																
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
NITTO BOSEKI CO., LTD.																
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
NORDSON CORPORATION																
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NORFOLK SOUTHERN CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	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

[illegible]

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

[illegible]

(Granted: Jan 01, 1977 - Dec 31, 2006) ---- Ranked List of Organizations with 1 or More Patents ----

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----- Organizational Patenting ----- (Granted: Jan 01, 1977 - Dec 31, 2006) ----- Ranked List of Organizations with 1 or More Patents -----

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Other Organizations (0)