

PTMT SPECIAL REPORT

ALL PATENTS, ALL TYPES

JANUARY 1977 -- DECEMBER 2007



March 2008
U.S. PATENT AND TRADEMARK OFFICE
ELECTRONIC INFORMATION PRODUCTS DIVISION / PTMT
MDW 4C18, ALEXANDRIA, VA 22313-1450
tel (571) 272-5600 / FAX (571) 273-0110

A PATENT TECHNOLOGY MONITORING TEAM REPORT

PTMT Special Report
All Patents, All Types
1/1977 - 12/31/2007
Explanation of Data

This Patent Technology Monitoring Team (PTMT) report profiles patent activity for all U.S. patents (design, plant, reissue, and utility patents, defensive publications, and statutory invention registrations) granted between **January 1, 1977** and **December 31, 2007**. 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 1994**" column corresponds to the period **January 1, 1977** through **December 31, 1993**.

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").

Patent data in the "**Pre 1994**" column corresponds to the period **January 1, 1977** through **December 31, 1993**.

Further Discussion

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 34% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a (utility) patent and the issuing of the patent (i.e., a patent's "pendency") is now about 32 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 2007**.

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 **1000** 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 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 **12/31/2007**, utility patent application data were approximately **98%** complete for patent applications filed in **2000**, **91%** complete for **2001** filings, **86%** complete for **2002** filings, **69%** complete for **2003** filings, **46%** complete for **2004** filings, and **21%** complete for **2005** filings. Data were essentially complete for applications filed prior to **2000**.

Part A1
Patent Grants as Distributed By Year of Patent Grant

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page Al- 1

	(Granted: Jan 01, 1977 - Dec 31, 2007)															
	NUMBER OF PATENTS															
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Total
Total	1382827	113704	113955	121805	124147	163205	169145	176083	184046	184424	187047	181320	157741	196437	182930	3638816
U.S. Origin	787044	64345	64510	69419	69923	90697	94089	97011	98655	97125	98589	94129	82586	102267	93691	2004080
Foreign Origin	595783	49359	49445	52386	54224	72508	75056	79072	85391	87299	88458	87191	75155	94170	89239	1634736
JAPAN	237160	23517	22871	24059	24191	32118	32514	32922	34890	36339	37248	37032	31834	39411	35942	682048
GERMANY	115181	6989	6874	7125	7292	9582	9895	10824	11894	11957	12140	11367	9575	10889	10012	251596
UNITED KINGDOM	45026	2472	2685	2676	2906	3729	3904	4092	4358	4202	4037	3905	3560	4329	4031	95912
FRANCE	43739	2985	3010	3016	3202	3991	4097	4173	4456	4421	4126	3686	3106	3856	3720	95584
TAIWAN	7394	1814	2087	2419	2597	3805	4526	5806	6545	6730	6676	7207	5993	7920	7491	79010
CANADA	26928	2380	2447	2638	2817	3537	3678	3925	4063	3857	3894	3781	3177	4094	3970	75186
SOUTH KOREA	2805	1008	1240	1567	1965	3362	3679	3472	3763	4009	4132	4671	4591	6509	7264	54037
ITALY	18096	1361	1242	1385	1417	1821	1686	1967	1978	1962	2022	1946	1591	1899	1836	42209
SWITZERLAND	21851	1244	1187	1192	1179	1374	1390	1458	1557	1532	1433	1405	1106	1388	1280	40576
SWEDEN	14641	800	914	971	970	1346	1542	1738	1933	1824	1629	1388	1189	1360	1278	33523
NETHERLANDS	14113	998	894	886	895	1382	1396	1410	1494	1681	1570	1537	1200	1647	1596	32699
AUSTRALIA	6944	564	548	566	568	830	832	860	1032	992	1049	1093	1032	1538	1546	19994
ISRAEL	3487	388	432	525	577	820	792	836	1031	1108	1260	1092	976	1325	1219	15868
BELGIUM	5016	392	419	516	561	755	718	756	796	801	727	678	577	720	624	14056
FINLAND	3657	341	387	453	468	629	695	649	769	856	944	954	751	1005	943	13501
AUSTRIA	5509	316	359	387	393	408	505	537	632	559	639	575	492	626	553	12490
DENMARK	3403	313	314	334	432	500	588	509	556	559	611	530	473	546	511	10179
CHINA, HONG KONG S.A.R.	1607	220	248	247	261	373	413	548	621	589	681	641	596	753	756	8554
SPAIN	1842	172	168	187	193	308	265	318	340	358	358	312	318	381	363	5883
CHINA P.REP.	342	48	63	48	66	88	99	162	265	390	424	597	565	970	1235	5362
NORWAY	1857	130	138	150	157	232	246	266	282	261	279	255	242	272	286	5053
SINGAPORE	202	59	61	97	100	136	152	242	304	421	460	485	377	469	451	4016
U.S.S.R.	3802	57	12	16	4	6	3	1								3902
INDIA	253	28	38	37	48	94	114	131	180	267	356	376	403	506	578	3409
SOUTH AFRICA	1625	109	127	116	114	132	127	125	137	123	131	115	108	127	116	3332
NEW ZEALAND	955	54	60	78	109	145	134	136	160	173	165	192	143	173	165	2842
IRELAND	577	49	55	86	76	78	100	137	164	142	182	197	169	198	161	2371
HUNGARY	1648	48	51	43	25	52	39	38	61	48	72	52	48	49	55	2329
RUSSIAN FEDERATION	3	38	99	118	112	194	185	185	239	203	203	173	154	176	193	2275
BRAZIL	569	61	70	69	67	88	98	113	125	112	180	161	98	148	118	2077
MEXICO	704	52	45	46	57	77	94	100	87	105	93	102	95	88	88	1833
LUXEMBOURG	512	44	34	27	42	46	35	55	48	52	53	55	49	49	66	1167
ARGENTINA	351	37	32	32	38	46	46	63	58	58	70	50	29	47	53	1010
MALAYSIA	80	16	8	24	29	35	34	47	56	62	63	93	98	131	173	949
CZECHOSLOVAKIA	755	20	15	9	10	9	5									823
VENEZUELA	276	28	31	30	26	29	39	32	28	32	20	23	10	15	17	636
Others (136)	2873	207	180	211	260	351	391	439	489	513	531	465	430	556	549	8445
Ownership:																
U.S. Corporations	589232	48751	49052	53542	55305	72358	75932	78825	82079	81110	82803	80000	70942	88180	81127	1589238
U.S. Government	19441	1310	1083	961	974	1040	1000	960	985	945	891	859	713	815	738	32715
U.S. Individuals	211892	16527	16813	17415	16285	20764	20540	20352	18840	17497	16901	15182	12785	15256	13774	450823
Foreign Corporations	480927	41539	41350	44189	45641	61423	64225	68057	74028	76855	78686	78571	67952	85839	81531	1390813
Foreign Government	6556	300	250	260	278	258	164	108	97	115	89	81	58	60	76	8750
Foreign Individuals	74779	5277	5407	5438	5664	7362	7284	7781	8017	7902	7677	6627	5291	6287	5684	166477

----- Technology Assessment and Forecast Report -----
 ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page A1- 2

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2007) ----

---- PERCENT OF PATENTS ----

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Total
--	----------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	57	57	57	57	56	56	56	55	54	53	53	52	52	52	51	55
Foreign Origin	43	43	43	43	44	44	44	45	46	47	47	48	48	48	49	45
JAPAN	17	21	20	20	19	20	19	19	19	20	20	20	20	20	20	19
GERMANY	8	6	6	6	6	6	6	6	6	6	6	6	6	6	5	7
UNITED KINGDOM	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
FRANCE	3	3	3	2	3	2	2	2	2	2	2	2	2	2	2	3
TAIWAN	1	2	2	2	2	2	3	3	4	4	4	4	4	4	4	2
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SOUTH KOREA	1	1	1	2	2	2	2	2	2	2	2	3	3	3	4	1
ITALY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SWITZERLAND	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SWEDEN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUSTRALIA	1					1			1	1	1	1	1	1	1	1
ISRAEL						1			1	1	1	1	1	1	1	0
BELGIUM																0
FINLAND												1	1	1	1	0
AUSTRIA																0
DENMARK																0
CHINA, HONG KONG S.A.R.																0
SPAIN																0
CHINA P.REP.															1	0
NORWAY																0
SINGAPORE																0
U.S.S.R.																0
INDIA																0
SOUTH AFRICA																0
NEW ZEALAND																0
IRELAND																0
HUNGARY																0
RUSSIAN FEDERATION																0
BRAZIL																0
MEXICO																0
LUXEMBOURG																0
ARGENTINA																0
MALAYSIA																0
CZECHOSLOVAKIA																0
VENEZUELA																0
Others (136)																0

Ownership:

U.S. Corporations	43	43	43	44	45	44	45	45	45	44	44	44	45	45	44	44
U.S. Government	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U.S. Individuals	15	15	15	14	13	13	12	12	10	9	9	8	8	8	8	12
Foreign Corporations	35	37	36	36	37	38	38	39	40	42	42	43	43	44	45	38
Foreign Government																0
Foreign Individuals	5	5	5	4	5	5	4	4	4	4	4	4	3	3	3	5

Part A2
Patent Grants as Distributed By Year of Patent Application

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page A2- 1

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2007) ----

----- NUMBER OF PATENTED APPLICATIONS -----
 Pre 1994 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 Total

Total	1591344	135189	157235	158307	183893	183120	194642	207406	213493	207393	174927	127716	74216	27720	2215	3638816
U.S. Origin	904900	76504	90360	86958	101450	100906	105956	110869	109703	105850	90551	65911	38269	14568	1325	2004080
Foreign Origin	686444	58685	66875	71349	82443	82214	88686	96537	103790	101543	84376	61805	35947	13152	890	1634736
JAPAN	280569	27147	30215	32094	37048	34584	35493	40051	43597	40462	34866	25623	15089	4920	290	682048
GERMANY	127617	7952	8961	9210	10819	10882	12681	13364	14291	14454	10343	6532	3312	1112	66	251596
UNITED KINGDOM	50019	3174	3721	3667	4216	4342	4740	4832	5069	4850	3481	2040	1242	487	32	95912
FRANCE	49421	3417	4009	3822	4383	4258	4742	5056	4887	4599	3369	2063	1100	424	34	95584
TAIWAN	9919	2345	2806	3518	4196	5338	6675	6246	7186	8212	8287	7404	4756	1969	153	79010
CANADA	31223	2901	3547	3458	3998	4206	4281	4503	4395	4325	3597	2610	1534	562	46	75186
SOUTH KOREA	4802	1700	2180	3593	3936	4084	3827	4391	4852	5693	5988	5062	2873	1010	46	54037
ITALY	20474	1486	1696	1692	1883	1843	2015	2124	2341	2273	1905	1334	778	346	19	42209
SWITZERLAND	24066	1335	1437	1320	1465	1487	1579	1691	1789	1680	1269	783	441	216	18	40576
SWEDEN	16273	1114	1242	1288	1853	1931	1960	2043	1927	1702	1095	612	301	165	17	33523
NETHERLANDS	15887	1053	1186	1352	1573	1423	1569	1766	1932	1838	1339	1071	489	207	14	32699
AUSTRALIA	8076	635	748	829	848	1038	1055	1274	1217	1379	1075	1030	533	236	21	19994
ISRAEL	4306	656	740	746	886	999	1309	1461	1532	1307	858	551	377	130	10	15868
BELGIUM	5773	550	750	752	754	790	850	843	863	847	636	353	199	89	7	14056
FINLAND	4356	501	563	720	787	767	1009	1187	1218	1077	681	389	169	73	4	13501
AUSTRIA	6119	418	478	424	495	561	615	639	708	812	578	372	186	80	5	12490
DENMARK	3957	393	570	471	557	614	623	611	765	637	483	274	165	57	2	10179
CHINA, HONG KONG S.A.R.	1990	239	267	351	331	458	558	617	758	742	756	697	508	251	31	8554
SPAIN	2143	219	234	274	306	308	319	386	468	408	362	240	171	45		5883
CHINA P.REP.	452	52	68	83	107	136	226	380	573	691	665	856	654	371	48	5362
NORWAY	2118	157	204	220	253	244	324	333	366	375	218	130	77	31	3	5053
SINGAPORE	316	103	107	147	191	245	375	470	516	547	384	349	193	65	8	4016
U.S.S.R.	3876	10	9	2	3	2										3902
INDIA	320	42	54	88	127	142	206	332	472	582	520	325	163	35	1	3409
SOUTH AFRICA	1851	141	112	130	122	140	142	142	169	151	103	74	45	10		3332
NEW ZEALAND	1065	111	107	133	169	134	150	208	221	200	178	80	58	28		2842
IRELAND	676	107	82	87	114	174	145	203	221	233	141	101	69	14	4	2371
HUNGARY	1743	45	51	38	38	54	56	73	68	80	44	17	18	3	1	2329
RUSSIAN FEDERATION	128	130	149	189	199	196	255	248	251	213	166	98	45	7	1	2275
BRAZIL	678	99	71	89	99	108	128	138	146	201	166	89	39	24	2	2077
MEXICO	791	57	54	80	100	100	101	103	127	87	105	61	45	19	3	1833
LUXEMBOURG	569	43	31	40	60	43	47	57	63	75	54	46	19	20		1167
ARGENTINA	417	39	37	50	46	63	51	70	78	53	39	33	18	16		1010
MALAYSIA	102	20	31	44	45	30	58	68	96	95	141	124	65	28	2	949
CZECHOSLOVAKIA	792	11	10	6	4											823
VENEZUELA	333	28	27	28	35	32	36	31	33	25	7	9	8	4		636
Others (136)	3227	255	321	314	397	458	486	596	595	638	477	373	208	98	2	8445

Ownership:

U.S. Corporations	681045	59289	72650	70408	83119	83402	88402	93516	93931	89973	75974	54168	30852	11470	1039	1589238
U.S. Government	22008	1117	1209	954	987	948	860	999	1006	915	782	543	305	77	5	32715
U.S. Individuals	239577	18952	19756	18946	20830	19421	19486	19146	17514	17645	15741	12403	7824	3284	298	450823
Foreign Corporations	557908	49444	56973	60925	71359	72013	77659	85166	92580	90506	75814	55954	32168	11572	772	1390813
Foreign Government	7077	294	298	249	171	115	112	133	91	95	60	45	8	2		8750
Foreign Individuals	83729	6093	6349	6825	7427	7221	8123	8446	8371	8259	6556	4603	3059	1315	101	166477

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2007) ----

PERCENT OF PATENTED APPLICATIONS

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Total
--	----------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	57	57	57	55	55	55	54	53	51	51	52	52	52	53	60	55
Foreign Origin	43	43	43	45	45	45	46	47	49	49	48	48	48	47	40	45
JAPAN	18	20	19	20	20	19	18	19	20	20	20	20	20	18	13	19
GERMANY	8	6	6	6	6	6	7	6	7	7	6	5	4	4	3	7
UNITED KINGDOM	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1	3
FRANCE	3	3	3	2	2	2	2	2	2	2	2	2	1	2	2	3
TAIWAN	1	2	2	2	2	3	3	3	3	4	5	6	6	7	7	2
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SOUTH KOREA	1	1	2	2	2	2	2	2	2	3	3	4	4	4	2	1
ITALY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SWITZERLAND	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SWEDEN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUSTRALIA	1			1		1	1	1	1	1	1	1	1	1	1	1
ISRAEL						1	1	1	1	1			1		0	
BELGIUM															0	
FINLAND								1	1	1	1				0	
AUSTRIA															0	
DENMARK															0	
CHINA, HONG KONG S.A.R.													1	1	1	0
SPAIN															0	
CHINA P.REP.													1	1	1	0
NORWAY															0	
SINGAPORE															0	
U.S.S.R.															0	
INDIA															0	
SOUTH AFRICA															0	
NEW ZEALAND															0	
IRELAND															0	
HUNGARY															0	
RUSSIAN FEDERATION															0	
BRAZIL															0	
MEXICO															0	
LUXEMBOURG															0	
ARGENTINA															0	
MALAYSIA															0	
CZECHOSLOVAKIA															0	
VENEZUELA															0	
Others (136)															0	

Ownership:

U.S. Corporations	43	44	46	44	45	46	45	45	44	43	43	42	42	41	47	44
U.S. Government	1	1	1	1	1	1									1	
U.S. Individuals	15	14	13	12	11	11	10	9	8	9	9	10	11	12	13	12
Foreign Corporations	35	37	36	38	39	39	40	41	43	44	43	44	43	42	35	38
Foreign Government															0	
Foreign Individuals	5	5	4	4	4	4	4	4	4	4	4	4	4	5	5	5

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, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

INTERNATIONAL BUSINESS MACHINES CORPORATION

Patents By Year of Grant:	10274	1356	1468	1930	1781	2685	2778	2905	3429	3297	3437	3253	2950	3635	3134	48312
Patents By Year of Application:	13344	1917	2617	2775	3616	3783	4355	4198	3707	2946	2574	1529	774	173	4	48312

CANON KABUSHIKI KAISHA

Patents By Year of Grant:	9839	1161	1164	1610	1458	2000	1864	1971	1976	1950	2051	1842	1840	2385	2000	35111
Patents By Year of Application:	12420	1972	2548	2079	2506	1838	2010	1883	2082	1774	1692	1201	840	253	13	35111

HITACHI, LTD

Patents By Year of Grant:	11621	989	924	970	914	1110	1024	1059	1297	1622	1907	1521	1275	1755	1407	29395
Patents By Year of Application:	13835	995	1150	1017	1083	993	1342	1624	2200	1816	1363	1228	530	211	8	29395

TOSHIBA CORPORATION

Patents By Year of Grant:	10446	1002	1009	957	889	1237	1232	1271	1189	1181	1254	1364	1277	1727	1587	27622
Patents By Year of Application:	12306	1113	1132	1276	1385	1328	1180	1225	1451	1516	1366	1353	706	257	28	27622

GENERAL ELECTRIC COMPANY

Patents By Year of Grant:	13640	977	765	824	669	738	702	790	1122	1423	1142	982	905	1055	918	26652
Patents By Year of Application:	15179	896	846	738	780	921	1233	1394	1261	1122	1069	752	371	80	10	26652

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Patents By Year of Grant:	5438	800	921	887	784	1090	1107	1216	1500	1593	1903	2060	1802	2417	2068	25586
Patents By Year of Application:	7095	975	1005	1102	1335	1418	1657	2028	2359	2152	2040	1420	725	258	17	25586

SONY CORPORATION

Patents By Year of Grant:	4501	747	805	945	944	1445	1641	1666	1546	1605	1470	1470	1299	1944	1681	23709
Patents By Year of Application:	6068	995	1276	1564	2135	1806	1815	1732	1850	1322	1118	826	984	215	3	23709

NEC CORPORATION

Patents By Year of Grant:	4379	918	1009	1054	1105	1639	1850	2041	1970	1847	1200	829	675	738	605	21859
Patents By Year of Application:	6010	1362	1280	1690	2332	2348	2140	1798	1342	776	423	230	101	26	1	21859

SAMSUNG ELECTRONICS CO., LTD.

Patents By Year of Grant:	873	419	439	495	591	1309	1557	1449	1449	1340	1316	1617	1724	2719	3352	20649
Patents By Year of Application:	1741	514	664	1540	1619	1860	1481	1350	1561	1811	2423	2163	1321	579	22	20649

MITSUBISHI DENKI KABUSHIKI KAISHA

Patents By Year of Grant:	7281	982	974	938	900	1092	1073	1047	1208	1399	1263	787	622	615	464	20645
Patents By Year of Application:	9134	983	1122	1088	1184	1063	1140	1318	1448	1007	523	387	187	61	0	20645

FUJITSU LIMITED

Patents By Year of Grant:	3350	595	732	872	908	1232	1200	1155	1176	1216	1306	1302	1159	1494	1300	18997
Patents By Year of Application:	4698	1021	1232	1298	1477	1455	1273	1408	1523	1241	971	779	503	110	8	18997

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 2

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

MOTOROLA, INC.

Patents By Year of Grant:	5912	960	1108	1163	1186	1542	1273	1267	811	729	668	629	494	641	443	18826
Patents By Year of Application:	7770	1305	1499	1528	1497	1092	739	1023	638	706	548	308	146	26	1	18826

EASTMAN KODAK COMPANY

Patents By Year of Grant:	7249	900	784	796	802	1145	1012	894	733	703	757	717	582	689	494	18257
Patents By Year of Application:	8764	786	792	1215	1114	1133	673	895	821	807	631	446	142	38	0	18257

SIEMENS AKTIENGESELLSCHAFT

Patents By Year of Grant:	7583	381	429	418	455	627	744	915	801	698	683	766	703	868	708	16779
Patents By Year of Application:	8291	469	518	626	849	961	993	857	924	860	682	506	200	42	1	16779

FUJI PHOTO FILM CO., LTD

Patents By Year of Grant:	7228	571	523	524	481	560	550	552	605	709	845	1048	776	948	332	16252
Patents By Year of Application:	8230	544	561	638	680	566	700	944	997	955	793	434	191	19	0	16252

MICRON TECHNOLOGY, INC.

Patents By Year of Grant:	410	106	63	125	319	592	942	1312	1646	1837	1710	1760	1564	1616	1479	15481
Patents By Year of Application:	568	96	396	705	1202	1511	1555	1832	1929	1959	1441	1314	702	265	6	15481

INTEL CORPORATION

Patents By Year of Grant:	558	206	271	423	405	708	744	806	818	1095	1600	1605	1552	1967	1869	14627
Patents By Year of Application:	1070	455	615	847	1010	1095	1374	1671	1719	1780	1621	916	380	72	2	14627

XEROX CORPORATION

Patents By Year of Grant:	5103	615	554	706	610	776	671	592	726	697	646	520	464	536	559	13775
Patents By Year of Application:	6272	710	727	693	652	867	868	778	541	577	454	359	229	46	2	13775

U.S. PHILIPS CORPORATION

Patents By Year of Grant:	8486	429	527	501	499	760	764	723	754	267	4	2	0	2	0	13718
Patents By Year of Application:	9356	602	698	770	828	709	497	211	47	0	0	0	0	0	0	13718

TEXAS INSTRUMENTS, INCORPORATED

Patents By Year of Grant:	3864	481	529	603	607	611	599	689	798	717	765	898	734	880	750	13525
Patents By Year of Application:	4882	742	834	561	758	706	799	776	900	912	808	506	284	54	3	13525

E. I. DU PONT DE NEMOURS AND COMPANY

Patents By Year of Grant:	6872	492	445	397	313	399	341	341	337	316	341	332	251	363	369	11909
Patents By Year of Application:	7676	428	429	368	409	337	345	395	371	365	363	255	139	27	2	11909

AT&T CORP.

Patents By Year of Grant:	7589	615	654	523	49	150	279	295	291	285	209	218	202	264	273	11896
Patents By Year of Application:	8804	488	214	220	488	345	300	265	294	194	110	79	73	20	2	11896

Technology Assessment and Forecast Report																	Page B - 3	
ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007																		
Organizational Patenting					(Granted: Jan 01, 1977 - Dec 31, 2007)										Ranked List of Organizations with 1000 or More Patents			
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL		
ROBERT BOSCH GMBH																		
Patents By Year of Grant:	4166	317	312	307	267	351	423	560	709	686	756	907	772	683	617	11833		
Patents By Year of Application:	4706	338	312	390	498	527	774	776	948	1184	805	333	174	58	10	11833		
SHARP KABUSHIKI KAISHA (SHARP CORPORATION)																		
Patents By Year of Grant:	4057	494	435	378	422	584	554	625	573	579	526	556	502	687	694	11666		
Patents By Year of Application:	4982	426	536	588	621	655	508	732	689	584	635	427	225	58	0	11666		
HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)																		
Patents By Year of Grant:	3691	247	254	302	353	416	487	493	612	720	703	810	778	948	815	11629		
Patents By Year of Application:	4136	309	420	390	490	550	463	790	844	1006	881	698	461	185	6	11629		
BAYER AKTIENGESELLSCHAFT																		
Patents By Year of Grant:	7209	345	328	323	357	382	342	306	364	399	348	330	176	149	39	11397		
Patents By Year of Application:	7802	345	402	416	388	284	358	341	435	424	154	40	7	1	0	11397		
GENERAL MOTORS CORPORATION																		
Patents By Year of Grant:	5659	334	282	298	277	306	276	254	177	190	291	377	394	500	343	9958		
Patents By Year of Application:	6150	326	312	312	265	278	172	219	286	504	538	476	112	8	0	9958		
BASF AKTIENGESELLSCHAFT																		
Patents By Year of Grant:	4835	320	304	319	276	399	414	510	487	476	393	343	231	278	226	9811		
Patents By Year of Application:	5361	330	386	365	479	514	502	495	493	491	285	91	15	4	0	9811		
UNITED STATES OF AMERICA, NAVY																		
Patents By Year of Grant:	5124	397	352	299	303	346	360	366	326	388	366	322	262	284	273	9768		
Patents By Year of Application:	5947	318	354	338	377	361	292	340	360	345	327	236	130	40	3	9768		
HEWLETT-PACKARD COMPANY																		
Patents By Year of Grant:	2339	438	492	523	554	827	880	968	1025	1113	424	0	7	10	4	9604		
Patents By Year of Application:	3227	577	691	900	1034	972	918	696	540	45	0	2	2	0	0	9604		
RICOH COMPANY, LTD.																		
Patents By Year of Grant:	3241	306	274	295	340	408	411	431	389	338	417	539	473	702	756	9320		
Patents By Year of Application:	3830	338	373	417	445	429	461	473	527	623	616	441	252	91	4	9320		
ADVANCED MICRO DEVICES, INC.																		
Patents By Year of Grant:	702	86	129	179	271	557	825	1053	1086	1154	904	802	526	439	305	9018		
Patents By Year of Application:	915	199	392	559	1116	1006	978	1229	981	817	459	259	91	16	1	9018		
LUCENT TECHNOLOGIES INC.																		
Patents By Year of Grant:	0	0	0	300	816	948	1162	1426	1116	665	621	536	406	553	432	8981		
Patents By Year of Application:	94	417	940	957	1273	1717	1413	827	419	350	358	143	58	15	0	8981		

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 4

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre																
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL	

SEIKO EPSON CORPORATION

Patents By Year of Grant:	690	166	162	200	239	327	316	422	530	648	797	858	896	1256	1239	8746
Patents By Year of Application:	1067	232	317	326	384	502	603	747	949	990	1098	996	418	111	6	8746

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.

Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1346	1821	1813	2180	1545	8705
Patents By Year of Application:	1	0	2	7	25	97	316	958	2017	2025	1967	887	360	40	3	8705

PROCTER + GAMBLE COMPANY

Patents By Year of Grant:	2080	220	233	354	434	503	632	546	489	501	490	450	352	380	429	8093
Patents By Year of Application:	2485	350	495	618	642	490	513	575	565	465	331	239	181	131	13	8093

TOYOTA JIDOSHA K.K.

Patents By Year of Grant:	3648	133	157	160	213	390	405	349	332	309	310	323	325	563	439	8056
Patents By Year of Application:	3892	165	212	398	500	340	320	296	350	320	388	378	394	99	4	8056

MICROSOFT CORPORATION

Patents By Year of Grant:	36	26	53	104	206	343	356	359	455	511	519	661	787	1618	1965	7999
Patents By Year of Application:	182	163	275	384	509	648	764	996	807	821	665	822	685	259	19	7999

NISSAN MOTOR COMPANY, LIMITED

Patents By Year of Grant:	4695	141	120	103	139	164	211	251	261	252	265	268	295	349	279	7793
Patents By Year of Application:	4931	120	154	179	203	252	222	253	314	350	321	289	172	33	0	7793

MINNESOTA MINING AND MANUFACTURING COMPANY

Patents By Year of Grant:	4373	540	599	573	591	592	351	52	15	11	7	3	1	1	0	7709
Patents By Year of Application:	5313	677	730	556	355	60	9	5	3	0	1	0	0	0	0	7709

WESTINGHOUSE ELECTRIC CORP.

Patents By Year of Grant:	6841	262	196	136	74	82	12	4	0	1	0	0	0	0	0	7608
Patents By Year of Application:	7233	203	88	53	29	1	0	1	0	0	0	0	0	0	0	7608

DOW CHEMICAL COMPANY

Patents By Year of Grant:	5668	270	230	197	165	175	142	134	169	118	42	28	10	9	5	7362
Patents By Year of Application:	6108	232	225	177	157	123	135	122	58	19	2	3	1	0	0	7362

CIBA-GEIGY CORPORATION

Patents By Year of Grant:	5368	302	277	273	239	17	4	3	0	2	0	0	0	0	0	6485
Patents By Year of Application:	5847	312	280	44	1	0	1	0	0	0	0	0	0	0	0	6485

HOECHST AKTIENGESELLSCHAFT

Patents By Year of Grant:	4446	335	313	353	353	328	152	82	18	18	9	1	2	0	0	6410
Patents By Year of Application:	5048	372	497	226	203	39	14	5	4	2	0	0	0	0	0	6410

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

Pre 1994 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 TOTAL

SUN MICROSYSTEMS, INC.

Patents By Year of Grant:	186	73	70	113	162	440	578	480	444	508	584	689	655	779	623	6384
Patents By Year of Application:	341	120	318	621	695	506	579	675	854	946	448	191	72	18	0	6384

KONINKLIJKE PHILIPS ELECTRONICS N.V.

Patents By Year of Grant:	0	0	0	0	0	0	0	0	12	860	1423	1250	801	955	633	5934
Patents By Year of Application:	4	1	11	26	36	168	571	1118	1723	1365	533	241	69	65	3	5934

UNIVERSITY OF CALIFORNIA, THE REGENTS OF

Patents By Year of Grant:	929	162	205	257	265	390	434	434	404	436	445	424	392	418	337	5932
Patents By Year of Application:	1350	322	482	376	414	451	463	484	523	441	335	190	84	15	2	5932

UNITED STATES OF AMERICA, ARMY

Patents By Year of Grant:	3662	204	192	156	170	167	143	147	165	150	131	135	127	181	144	5874
Patents By Year of Application:	4003	189	208	179	148	157	154	163	143	153	153	139	66	18	1	5874

MOBIL OIL CORP.

Patents By Year of Grant:	4795	295	204	167	91	67	72	71	52	14	5	4	3	0	0	5840
Patents By Year of Application:	5245	209	137	53	68	70	51	6	0	0	1	0	0	0	0	5840

MINOLTA CAMERA CO., LTD.

Patents By Year of Grant:	2619	162	115	166	160	308	369	346	312	240	223	211	159	169	113	5672
Patents By Year of Application:	2926	184	197	290	439	410	359	342	257	153	89	18	8	0	0	5672

OLYMPUS OPTICAL CO., LTD.

Patents By Year of Grant:	2827	238	214	224	217	282	230	291	279	276	272	121	82	62	32	5647
Patents By Year of Application:	3313	255	266	240	250	280	289	290	232	138	68	12	9	5	0	5647

BOEING COMPANY

Patents By Year of Grant:	2336	80	98	99	114	157	147	138	163	200	268	428	414	490	433	5565
Patents By Year of Application:	2550	69	213	150	120	141	130	185	371	505	550	382	158	39	2	5565

SHELL OIL COMPANY

Patents By Year of Grant:	3464	238	173	139	129	148	136	135	129	81	100	170	122	189	139	5492
Patents By Year of Application:	3814	180	161	163	146	129	111	113	220	222	121	82	20	10	0	5492

NIKON CORPORATION

Patents By Year of Grant:	1286	122	231	433	495	599	371	301	303	251	311	235	188	151	138	5415
Patents By Year of Application:	1532	401	641	523	520	288	321	362	302	194	155	86	63	27	0	5415

SANYO ELECTRIC CO., LTD.

Patents By Year of Grant:	1155	128	124	134	175	270	254	271	300	386	382	394	369	544	485	5371
Patents By Year of Application:	1385	171	180	285	291	344	331	484	468	470	394	310	183	73	2	5371

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 6

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

CATERPILLAR INC.

Patents By Year of Grant:	2165	109	149	209	213	197	267	354	268	255	221	174	157	146	191	5075
Patents By Year of Application:	2371	210	230	264	265	322	304	268	242	242	142	94	96	24	1	5075

ALLIED-SIGNAL INC.

Patents By Year of Grant:	3482	274	198	190	119	140	147	187	162	68	39	13	3	1	2	5025
Patents By Year of Application:	3938	174	158	161	161	173	194	35	20	9	1	1	0	0	0	5025

DENSO CORPORATION

Patents By Year of Grant:	0	0	0	0	7	124	307	371	437	482	552	646	609	732	755	5022
Patents By Year of Application:	1	1	5	115	348	387	441	442	637	660	724	629	495	128	9	5022

RCA CORPORATION

Patents By Year of Grant:	4938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4938
Patents By Year of Application:	4938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4938

TELEFONAKTIEBOLAGET LM ERICSSON

Patents By Year of Grant:	510	66	81	153	116	224	386	491	522	526	473	390	331	359	253	4881
Patents By Year of Application:	679	139	225	269	608	665	640	723	490	238	126	56	21	2	0	4881

PHILLIPS PETROLEUM COMPANY

Patents By Year of Grant:	3868	149	101	91	76	75	72	113	89	82	48	15	9	11	3	4802
Patents By Year of Application:	4093	99	127	65	70	120	90	74	28	14	18	3	1	0	0	4802

LG ELECTRONICS INC.

Patents By Year of Grant:	0	0	1	23	120	227	244	234	290	382	442	551	531	843	875	4763
Patents By Year of Application:	3	1	175	234	312	311	326	494	645	625	613	527	330	152	15	4763

UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY

Patents By Year of Grant:	3833	205	119	71	69	63	53	57	69	45	43	40	22	22	23	4734
Patents By Year of Application:	4168	78	69	68	56	55	48	57	43	43	27	10	10	2	0	4734

UNITED TECHNOLOGIES CORPORATION

Patents By Year of Grant:	3009	203	215	160	123	117	109	119	101	78	59	54	82	133	123	4685
Patents By Year of Application:	3406	209	142	111	116	119	95	49	71	82	111	129	30	14	1	4685

INFINEON TECHNOLOGIES AG

Patents By Year of Grant:	0	0	0	0	0	0	0	42	219	453	642	785	787	892	848	4668
Patents By Year of Application:	0	0	1	5	8	85	171	480	830	1086	876	673	390	63	0	4668

FORD MOTOR COMPANY

Patents By Year of Grant:	2628	327	338	383	266	147	151	103	27	18	46	58	48	41	31	4612
Patents By Year of Application:	3199	360	347	157	145	114	45	73	27	57	47	24	14	3	0	4612

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 7

----- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

---- Ranked List of Organizations with 1000 or More Patents ----

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 8

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre																
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL	

EXXON RESEARCH + ENGINEERING CO.

Patents By Year of Grant:	3280	127	90	72	74	106	122	101	73	10	1	1	0	0	0	4057
Patents By Year of Application:	3476	89	99	81	120	118	65	8	1	0	0	0	0	0	0	4057

OKI ELECTRIC INDUSTRY CO., LTD.

Patents By Year of Grant:	916	106	90	81	73	130	202	225	299	328	295	307	315	318	279	3964
Patents By Year of Application:	1088	97	115	109	254	304	268	337	307	376	346	215	121	27	0	3964

BROTHER KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	1313	156	123	137	157	217	265	233	189	115	105	165	154	241	325	3895
Patents By Year of Application:	1565	170	171	262	266	299	153	103	108	154	232	226	132	49	5	3895

YAZAKI CORP.

Patents By Year of Grant:	692	119	115	180	242	291	307	305	336	315	313	203	157	154	146	3875
Patents By Year of Application:	886	195	221	326	319	306	285	358	312	247	155	139	78	44	4	3875

SUMITOMO CHEMICAL COMPANY, LIMITED

Patents By Year of Grant:	1866	164	139	138	123	149	136	149	168	187	174	152	113	102	109	3869
Patents By Year of Application:	2138	188	159	143	151	138	172	168	206	184	127	60	26	9	0	3869

SUMITOMO ELECTRIC INDUSTRIES CO., LTD.

Patents By Year of Grant:	1378	233	233	210	172	159	162	136	156	171	184	177	170	160	151	3852
Patents By Year of Application:	1777	263	249	146	162	135	143	184	203	203	193	107	69	16	2	3852

FUJI XEROX CO., LTD.

Patents By Year of Grant:	843	159	182	173	197	283	259	199	170	187	175	198	201	250	317	3793
Patents By Year of Application:	1193	165	250	312	279	188	208	233	225	190	291	164	79	16	0	3793

LSI LOGIC CORPORATION

Patents By Year of Grant:	92	45	78	127	168	229	339	325	289	308	375	378	340	385	247	3725
Patents By Year of Application:	231	114	232	307	398	385	231	279	509	444	352	167	67	9	0	3725

NATIONAL SEMICONDUCTOR CORPORATION

Patents By Year of Grant:	887	149	186	202	188	178	197	188	183	208	217	219	224	259	229	3714
Patents By Year of Application:	1169	218	259	167	174	229	192	219	228	257	247	242	104	9	0	3714

UNITED STATES OF AMERICA, AIR FORCE

Patents By Year of Grant:	2473	138	86	104	94	84	91	84	106	76	68	55	55	49	43	3606
Patents By Year of Application:	2705	101	106	94	83	92	85	77	76	73	51	34	27	2	0	3606

IMPERIAL CHEMICAL INDUSTRIES PLC

Patents By Year of Grant:	2883	131	94	68	61	63	45	41	39	25	17	15	15	9	3	3509
Patents By Year of Application:	3102	75	86	62	41	35	39	21	17	25	4	2	0	0	0	3509

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL

HONEYWELL INC.

Patents By Year of Grant:	2372	171	185	129	103	139	144	129	48	26	21	13	5	2	0	3487
Patents By Year of Application:	2715	143	116	146	163	117	67	10	4	6	0	0	0	0	0	3487

L'OREAL S.A.

Patents By Year of Grant:	921	76	79	126	169	191	262	251	275	287	219	136	113	155	166	3426
Patents By Year of Application:	1066	142	222	227	270	211	315	305	239	193	118	88	25	5	0	3426

DELPHI TECHNOLOGIES, INC.

Patents By Year of Grant:	0	0	0	0	0	0	2	94	327	644	638	547	405	390	358	3405
Patents By Year of Application:	0	0	0	3	4	44	374	631	732	606	481	274	201	53	2	3405

CORNING INCORPORATED

Patents By Year of Grant:	1424	108	74	88	78	72	103	112	215	250	259	237	114	135	129	3398
Patents By Year of Application:	1592	107	95	55	107	126	266	258	272	231	134	86	53	15	1	3398

AMERICAN CYANAMID COMPANY

Patents By Year of Grant:	2519	149	106	108	108	114	112	66	69	32	10	3	1	0	0	3397
Patents By Year of Application:	2782	117	184	52	81	61	72	42	6	0	0	0	0	0	0	3397

ALPS ELECTRIC CO., LTD.

Patents By Year of Grant:	1162	36	44	42	82	100	154	194	264	211	253	239	215	187	172	3355
Patents By Year of Application:	1225	53	82	115	180	196	252	272	283	208	223	156	83	25	2	3355

ASAHI KOGAKU KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	1248	217	156	182	165	277	307	260	252	259	18	5	1	0	0	3347
Patents By Year of Application:	1599	207	196	241	308	263	258	182	85	8	0	0	0	0	0	3347

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

Patents By Year of Grant:	373	58	43	90	98	127	185	159	211	246	275	336	293	406	413	3313
Patents By Year of Application:	510	121	166	174	235	184	249	256	336	373	300	273	111	25	0	3313

ELI LILLY AND COMPANY

Patents By Year of Grant:	1510	79	148	245	223	182	189	162	115	123	91	59	48	61	69	3304
Patents By Year of Application:	1751	158	383	112	219	159	113	98	109	105	70	17	5	5	0	3304

UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Patents By Year of Grant:	1955	160	122	104	97	95	93	97	92	85	80	102	87	62	70	3301
Patents By Year of Application:	2220	125	111	99	95	102	72	104	93	111	84	48	29	7	1	3301

UOP

Patents By Year of Grant:	2157	103	109	97	60	88	107	104	84	95	67	68	46	58	51	3294
Patents By Year of Application:	2319	128	83	79	92	111	121	93	79	81	54	31	17	6	0	3294

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 10

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

NORTEL NETWORKS LIMITED

Patents By Year of Grant:	0	0	0	0	0	0	94	396	465	420	436	499	377	323	273	3283
Patents By Year of Application:	1	1	7	72	440	666	694	673	277	240	131	67	10	4	0	3283

ROCKWELL INTERNATIONAL CORPORATION

Patents By Year of Grant:	2649	151	117	122	75	77	68	11	6	1	1	0	0	0	0	3278
Patents By Year of Application:	2924	115	121	61	45	8	3	0	1	0	0	0	0	0	0	3278

PFIZER INC.

Patents By Year of Grant:	1319	77	76	83	102	120	119	165	176	187	196	166	163	140	109	3198
Patents By Year of Application:	1479	118	115	77	133	110	232	226	201	183	180	95	44	5	0	3198

HONEYWELL INTERNATIONAL INC.

Patents By Year of Grant:	0	0	0	0	0	0	0	61	222	351	380	536	466	572	544	3132
Patents By Year of Application:	5	2	4	9	34	116	195	451	476	547	506	499	241	44	3	3132

AGILENT TECHNOLOGIES, INC.

Patents By Year of Grant:	0	0	0	0	0	0	0	124	338	314	388	647	559	468	285	3123
Patents By Year of Application:	1	2	5	10	30	238	360	381	507	652	514	254	128	41	0	3123

AISIN SEIKI KABUSHIKI KAISHA

Patents By Year of Grant:	1688	71	62	91	74	116	137	110	110	131	109	115	90	103	97	3104
Patents By Year of Application:	1811	84	89	119	129	124	120	93	152	122	101	86	55	18	1	3104

DEERE + COMPANY

Patents By Year of Grant:	1441	64	72	65	59	71	99	82	146	145	178	166	155	153	160	3056
Patents By Year of Application:	1542	66	71	66	88	86	134	162	196	189	186	134	114	20	2	3056

MONSANTO COMPANY, INC.

Patents By Year of Grant:	2378	77	75	82	99	77	83	78	63	11	11	6	4	2	0	3046
Patents By Year of Application:	2534	83	119	76	92	55	55	18	8	5	1	0	0	0	0	3046

NIPPONDENSO CO., LTD.

Patents By Year of Grant:	1595	165	189	311	313	309	100	35	19	7	1	1	0	0	0	3045
Patents By Year of Application:	1931	267	390	365	57	19	8	5	2	1	0	0	0	0	0	3045

CISCO TECHNOLOGY, INC.

Patents By Year of Grant:	0	0	0	0	0	19	45	109	165	224	342	434	446	657	592	3033
Patents By Year of Application:	0	1	14	36	119	280	519	640	508	388	271	153	75	28	1	3033

MEDTRONIC INC.

Patents By Year of Grant:	547	114	93	79	92	243	208	233	188	173	195	179	182	234	251	3011
Patents By Year of Application:	742	96	121	203	248	234	237	225	276	242	236	107	38	5	1	3011

Technology Assessment and Forecast Report																	Page B - 11	
ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007																		
Organizational Patenting				(Granted: Jan 01, 1977 - Dec 31, 2007)									Ranked List of Organizations with 1000 or More Patents					
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL		
RAYTHEON COMPANY																		
Patents By Year of Grant:	1161	52	45	10	20	117	219	205	182	158	184	176	145	207	126	3007		
Patents By Year of Application:	1328	30	55	146	237	144	137	156	177	202	178	126	73	17	1	3007		
NCR CORPORATION																		
Patents By Year of Grant:	1270	95	54	39	83	176	192	143	140	164	168	129	84	113	103	2953		
Patents By Year of Application:	1457	49	120	177	235	177	187	184	160	112	40	41	9	5	0	2953		
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN																		
Patents By Year of Grant:	296	120	145	112	156	220	210	199	221	218	207	197	162	255	229	2947		
Patents By Year of Application:	523	126	190	196	227	212	255	219	221	239	233	191	94	20	1	2947		
TEXACO INC.																		
Patents By Year of Grant:	2415	88	107	65	25	34	35	43	25	22	19	13	6	9	13	2919		
Patents By Year of Application:	2578	86	47	31	32	48	23	17	27	15	9	3	3	0	0	2919		
MASSACHUSETTS INSTITUTE OF TECHNOLOGY																		
Patents By Year of Grant:	1153	100	105	119	102	139	145	114	128	136	127	132	136	140	141	2917		
Patents By Year of Application:	1391	153	143	118	128	150	153	149	143	151	132	63	35	8	0	2917		
PIONEER ELECTRONIC CORPORATION																		
Patents By Year of Grant:	1672	174	148	101	110	141	140	132	120	64	36	30	14	9	5	2896		
Patents By Year of Application:	1970	124	114	152	172	158	142	18	17	17	8	3	0	1	0	2896		
ABBOTT LABORATORIES																		
Patents By Year of Grant:	1144	149	119	191	200	175	159	135	129	115	115	67	48	75	58	2879		
Patents By Year of Application:	1408	166	305	174	164	135	132	110	100	71	60	40	9	5	0	2879		
TDK CORPORATION																		
Patents By Year of Grant:	534	62	67	81	76	83	104	163	217	258	233	206	159	296	340	2879		
Patents By Year of Application:	657	90	85	75	109	203	249	276	270	171	227	282	133	48	4	2879		
HOFFMANN-LA ROCHE INC.																		
Patents By Year of Grant:	1761	89	104	106	79	72	70	62	77	73	84	63	51	78	100	2869		
Patents By Year of Application:	1935	119	98	58	66	57	64	83	96	79	81	75	41	17	0	2869		
TRW INC.																		
Patents By Year of Grant:	1081	104	96	98	101	144	200	275	309	227	134	51	26	14	1	2861		
Patents By Year of Application:	1280	83	132	177	221	269	284	224	145	45	1	0	0	0	0	2861		
UNITED MICROELECTRONICS CORPORATION																		
Patents By Year of Grant:	16	48	150	170	149	174	266	430	584	278	188	77	95	107	125	2857		
Patents By Year of Application:	89	224	188	205	226	521	483	275	225	119	89	118	84	9	2	2857		

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 12

----- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

----- Ranked List of Organizations with 1000 or More Patents -----

Pre

	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

YAMAHA CORPORATION

Patents By Year of Grant:	605	136	140	162	151	208	224	149	124	133	126	125	160	174	198	2815
Patents By Year of Application:	895	144	180	211	220	161	137	160	176	166	183	94	64	24	0	2815

ILLINOIS TOOL WORKS INC.

Patents By Year of Grant:	718	36	60	72	93	125	99	143	184	154	215	227	250	193	228	2797
Patents By Year of Application:	787	83	101	106	112	138	172	207	231	281	254	161	110	43	11	2797

KIMBERLY-CLARK WORLDWIDE, INC.

Patents By Year of Grant:	0	0	0	0	100	173	188	272	338	284	417	313	259	230	178	2752
Patents By Year of Application:	9	29	122	188	283	206	355	453	452	360	175	87	28	5	0	2752

UNION CARBIDE CORPORATION

Patents By Year of Grant:	2702	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2704
Patents By Year of Application:	2702	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2704

AMP INCORPORATED

Patents By Year of Grant:	2664	3	0	1	0	0	0	0	0	0	0	0	0	0	0	2668
Patents By Year of Application:	2667	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2668

COLGATE-PALMOLIVE COMPANY

Patents By Year of Grant:	1137	80	84	84	95	141	164	137	128	181	157	84	57	83	49	2661
Patents By Year of Application:	1286	93	87	139	141	104	124	126	148	162	132	53	47	14	5	2661

PPG INDUSTRIES INC.

Patents By Year of Grant:	2265	61	53	52	74	97	44	0	0	0	0	0	0	1	1	2648
Patents By Year of Application:	2377	66	78	71	53	1	0	0	0	0	0	1	1	0	0	2648

RENESAS TECHNOLOGY CORPORATION

Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	20	914	607	583	513	2637	
Patents By Year of Application:	0	0	0	2	3	11	28	91	275	727	713	408	277	93	9	2637

NOKIA CORPORATION

Patents By Year of Grant:	1	0	0	0	0	0	0	0	7	44	332	449	379	654	749	2615
Patents By Year of Application:	1	0	0	0	5	18	187	318	546	685	435	272	108	36	4	2615

THOMSON-CSF

Patents By Year of Grant:	2028	84	90	52	52	66	67	47	46	46	21	12	2	2	0	2615
Patents By Year of Application:	2195	70	72	55	63	55	42	42	19	0	2	0	0	0	0	2615

BRIDGESTONE CORPORATION

Patents By Year of Grant:	1153	109	95	85	85	94	112	108	163	143	112	120	70	68	83	2600
Patents By Year of Application:	1333	89	113	109	130	152	135	146	126	103	66	43	32	20	3	2600

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

Pre 1994 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 TOTAL

DAIMLER-BENZ AKTIENGESELLSCHAFT

Patents By Year of Grant:	1514	96	108	144	172	279	218	38	18	2	1	0	0	0	0	2590
Patents By Year of Application:	1675	158	183	228	237	105	3	0	1	0	0	0	0	0	0	2590

SHIN ETSU CHEMICAL CO., LTD.

Patents By Year of Grant:	862	161	142	134	97	96	97	111	128	134	136	166	119	107	97	2587
Patents By Year of Application:	1090	163	141	102	91	116	108	167	178	158	139	98	27	9	0	2587

DAIMLER-CHRYSLER AKTIENGESELLSCHAFT

Patents By Year of Grant:	0	0	0	0	0	0	89	387	485	362	293	283	223	266	195	2583
Patents By Year of Application:	2	2	5	22	125	277	506	389	343	333	224	170	122	54	9	2583

BLACK & DECKER INC.

Patents By Year of Grant:	645	46	66	112	126	141	118	122	158	135	151	129	131	247	237	2564
Patents By Year of Application:	721	78	159	129	154	113	143	123	169	176	169	194	146	84	6	2564

AMOCO CORPORATION

Patents By Year of Grant:	2210	88	58	67	56	67	16	0	0	0	0	0	0	0	0	2562
Patents By Year of Application:	2361	65	71	42	22	1	0	0	0	0	0	0	0	0	0	2562

SCHLUMBERGER TECHNOLOGY CORPORATION

Patents By Year of Grant:	693	66	50	56	48	46	80	122	161	178	196	207	178	224	218	2523
Patents By Year of Application:	798	66	56	63	101	128	137	222	212	276	219	154	59	31	1	2523

HYUNDAI ELECTRONICS INDUSTRIES CO., LTD.

Patents By Year of Grant:	62	54	79	138	154	212	244	298	539	392	180	107	25	15	2	2501
Patents By Year of Application:	166	127	174	257	306	331	463	433	165	48	21	5	3	2	0	2501

MAZDA MOTOR CORPORATION

Patents By Year of Grant:	1550	135	109	59	62	66	60	91	73	53	58	53	43	46	38	2496
Patents By Year of Application:	1774	108	54	62	61	75	52	65	58	66	54	45	19	3	0	2496

WARNER-LAMBERT COMPANY

Patents By Year of Grant:	1365	85	85	69	91	67	85	96	85	80	74	75	78	77	42	2454
Patents By Year of Application:	1506	102	108	48	73	103	96	76	85	95	73	66	16	7	0	2454

TOKYO ELECTRON LIMITED

Patents By Year of Grant:	136	73	77	91	90	101	176	193	204	238	191	229	199	218	234	2450
Patents By Year of Application:	275	107	95	116	190	206	169	293	263	259	235	150	64	28	0	2450

PITNEY-BOWES, INC.

Patents By Year of Grant:	1118	82	98	73	85	124	98	83	81	83	91	117	96	87	64	2380
Patents By Year of Application:	1295	125	105	115	105	84	131	92	101	106	66	38	13	4	0	2380

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 14

Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2007)													Ranked List of Organizations with 1000 or More Patents			
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
BRISTOL-MYERS SQUIBB COMPANY																
Patents By Year of Grant:	772	59	73	76	109	125	138	110	104	102	136	97	115	182	174	2372
Patents By Year of Application:	928	102	120	113	111	109	117	112	135	162	155	119	72	17	0	2372
VICTOR COMPANY OF JAPAN, LIMITED																
Patents By Year of Grant:	1310	68	52	62	64	77	79	82	63	62	65	89	76	96	109	2354
Patents By Year of Application:	1427	64	72	94	89	93	72	71	107	58	81	63	40	22	1	2354
NGK INSULATORS LTD.																
Patents By Year of Grant:	784	73	65	67	81	92	123	116	132	162	148	144	105	125	116	2333
Patents By Year of Application:	912	74	102	100	137	136	140	141	152	192	120	75	46	5	1	2333
COMMISSARIAT A L'ENERGIE ATOMIQUE																
Patents By Year of Grant:	1242	62	40	69	79	88	81	62	83	87	82	89	83	92	92	2331
Patents By Year of Application:	1339	71	85	94	93	63	104	98	114	132	93	35	7	3	0	2331
INSTITUT FRANCAIS DU PETROLE																
Patents By Year of Grant:	888	90	75	69	86	143	112	161	154	119	113	79	57	70	90	2306
Patents By Year of Application:	1049	77	114	120	157	147	150	152	119	89	65	48	17	2	0	2306
DIGITAL EQUIPMENT CORPORATION																
Patents By Year of Grant:	1119	276	190	167	133	169	133	93	15	0	0	0	0	0	0	2295
Patents By Year of Application:	1622	173	152	154	139	50	5	0	0	0	0	0	0	0	0	2295
CASIO COMPUTER CO. LTD.																
Patents By Year of Grant:	885	114	115	126	86	129	140	127	102	82	46	58	67	87	125	2289
Patents By Year of Application:	1105	120	118	103	141	145	99	100	60	41	72	84	73	23	5	2289
AIR PRODUCTS AND CHEMICALS, INC.																
Patents By Year of Grant:	1147	125	73	78	72	80	86	104	84	74	98	72	57	67	66	2283
Patents By Year of Application:	1312	91	81	76	87	97	100	72	90	106	96	49	16	9	1	2283
NIKE, INC.																
Patents By Year of Grant:	336	111	57	42	173	220	123	101	66	87	83	130	137	354	261	2281
Patents By Year of Application:	441	61	73	171	163	126	92	101	75	128	141	210	190	192	117	2281
NORTHERN TELECOM LIMITED																
Patents By Year of Grant:	1361	90	83	106	68	209	249	72	19	11	2	1	0	0	0	2271
Patents By Year of Application:	1523	93	110	253	226	63	3	0	0	0	0	0	0	0	0	2271
HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN (HENKEL KGAA)																
Patents By Year of Grant:	1141	101	100	109	73	88	86	70	104	76	69	73	40	59	80	2269
Patents By Year of Application:	1315	123	93	113	88	80	103	77	75	65	42	40	34	21	0	2269

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 15

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

HARRIS CORP.

Patents By Year of Grant:	929	69	71	93	118	126	123	70	94	82	71	89	122	96	91	2244
Patents By Year of Application:	1066	114	122	131	99	99	88	89	85	111	133	57	38	11	1	2244

UNITED STATES OF AMERICA, HEALTH & HUMAN SERVICES

Patents By Year of Grant:	631	110	104	123	152	174	142	97	103	92	87	118	81	122	100	2236
Patents By Year of Application:	986	193	234	73	106	76	102	127	149	89	60	22	15	4	0	2236

GTE PRODUCTS CORPORATION

Patents By Year of Grant:	2172	41	8	2	0	3	1	2	0	0	0	0	0	0	0	2229
Patents By Year of Application:	2227	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2229

APPLE COMPUTER, INC.

Patents By Year of Grant:	233	66	124	185	230	261	181	126	107	96	100	122	103	132	156	2222
Patents By Year of Application:	502	202	345	222	135	119	103	87	121	132	103	82	45	23	1	2222

BROADCOM CORPORATION

Patents By Year of Grant:	0	0	0	0	2	2	0	6	42	75	167	299	415	660	533	2201
Patents By Year of Application:	0	2	3	0	7	14	91	207	321	514	400	398	200	43	1	2201

QUALCOMM, INC.

Patents By Year of Grant:	29	9	23	51	46	84	120	109	175	196	180	284	201	401	284	2192
Patents By Year of Application:	60	57	80	126	137	187	286	212	359	301	188	122	62	14	1	2192

SEAGATE TECHNOLOGY, LLC

Patents By Year of Grant:	0	0	0	0	0	0	0	59	286	323	399	428	280	255	162	2192
Patents By Year of Application:	2	5	13	10	30	189	312	384	500	326	300	87	28	5	1	2192

FMC CORPORATION

Patents By Year of Grant:	1512	71	54	70	72	99	81	75	52	47	17	17	10	6	4	2187
Patents By Year of Application:	1635	72	76	93	96	69	49	55	19	13	5	5	0	0	0	2187

BECTON, DICKINSON AND COMPANY

Patents By Year of Grant:	721	87	72	100	155	164	137	127	128	99	121	86	63	68	49	2177
Patents By Year of Application:	888	112	137	156	159	111	138	109	126	123	88	23	3	4	0	2177

DOW CORNING CORPORATION

Patents By Year of Grant:	1195	133	107	108	89	108	106	76	58	51	47	47	15	16	10	2166
Patents By Year of Application:	1392	127	110	112	89	88	64	44	57	55	16	9	2	1	0	2166

ROHM AND HAAS COMPANY

Patents By Year of Grant:	965	131	117	97	63	71	86	78	95	76	83	86	61	77	55	2141
Patents By Year of Application:	1191	103	102	59	79	85	93	89	104	97	88	30	16	3	2	2141

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 16

----- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) -

--- Ranked List of Organizations with 1000 or More Patents ---

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL

NOKIA MOBILE PHONES LTD.

Patents By Year of Grant:	65	60	66	45	52	138	204	219	236	265	204	166	104	96	16	1936
Patents By Year of Application:	178	65	83	186	269	264	282	352	216	21	8	8	4	0	0	1936

LOCKHEED MARTIN CORPORATION

Patents By Year of Grant:	0	0	0	20	49	109	121	178	159	193	224	203	202	229	244	1931
Patents By Year of Application:	45	23	68	107	107	163	186	210	275	271	236	149	73	18	0	1931

W. R. GRACE & CO.-CONN.

Patents By Year of Grant:	1314	116	87	86	74	56	28	16	30	28	23	23	24	16	10	1931
Patents By Year of Application:	1508	71	118	43	34	21	19	23	30	29	23	6	5	1	0	1931

BAKER HUGHES INCORPORATED

Patents By Year of Grant:	262	83	68	70	79	98	108	134	160	141	162	124	132	134	172	1927
Patents By Year of Application:	386	80	111	87	148	136	132	156	164	180	154	109	68	16	0	1927

ROHM COMPANY LIMITED

Patents By Year of Grant:	106	158	152	102	96	112	95	116	132	150	128	135	113	178	153	1926
Patents By Year of Application:	393	141	108	104	115	117	138	163	140	137	138	130	84	16	2	1926

YAMAHA HATSUDOKI KABUSHIKI KAISHA, YAMAHA MOTOR CO., LTD.

Patents By Year of Grant:	763	55	57	73	76	131	102	105	94	74	62	54	62	84	106	1898
Patents By Year of Application:	875	87	87	127	125	97	89	70	49	72	71	60	62	22	5	1898

ERICSSON, INC.

Patents By Year of Grant:	5	0	4	29	70	211	297	332	272	254	181	109	59	46	24	1893
Patents By Year of Application:	19	38	97	339	370	382	335	165	106	32	7	3	0	0	0	1893

HYNIX SEMICONDUCTOR INC.

Patents By Year of Grant:	0	0	0	0	0	0	0	0	4	99	245	336	358	438	405	1885
Patents By Year of Application:	0	1	0	0	3	6	14	45	265	427	422	408	253	38	3	1885

LG. PHILIPS LCD CO., LTD.

Patents By Year of Grant:	0	0	0	0	0	0	1	10	69	151	222	304	320	382	418	1877
Patents By Year of Application:	0	0	0	5	9	55	104	248	315	379	367	303	73	17	2	1877

CARRIER CORPORATION

Patents By Year of Grant:	823	64	67	51	41	69	66	109	98	84	90	77	77	75	73	1864
Patents By Year of Application:	919	68	57	71	66	105	73	93	95	99	95	99	11	13	0	1864

AGFA-GEVAERT N.V.

Patents By Year of Grant:	483	67	95	104	115	140	128	174	140	104	81	71	46	65	44	1857
Patents By Year of Application:	603	116	137	169	133	164	132	105	87	77	79	32	20	3	0	1857

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 18

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

HALLIBURTON ENERGY SERVICES, INC.

Patents By Year of Grant:	1	0	2	0	25	75	115	140	170	167	186	212	193	282	284	1852
Patents By Year of Application:	4	3	16	72	128	153	159	163	200	293	264	258	106	29	4	1852

FORD GLOBAL TECHNOLOGIES, INC.

Patents By Year of Grant:	0	0	0	0	86	315	259	260	364	396	151	7	5	2	5	1850
Patents By Year of Application:	14	21	75	239	293	265	280	413	189	51	5	1	4	0	0	1850

SILVERBROOK RESEARCH PTY. LTD

Patents By Year of Grant:	0	0	0	0	0	0	0	10	117	121	122	172	247	515	536	1840
Patents By Year of Application:	0	0	0	0	158	33	222	80	228	287	477	477	262	84	9	1840

OLIN CORPORATION

Patents By Year of Grant:	1526	74	47	57	28	23	17	17	4	5	4	7	8	6	6	1829
Patents By Year of Application:	1636	53	44	18	22	14	8	5	8	3	6	9	1	2	0	1829

KAO KABUSHIKI KAISHA (KAO CORPORATION)

Patents By Year of Grant:	500	78	82	70	109	131	98	84	94	94	92	96	87	102	78	1795
Patents By Year of Application:	645	92	113	126	114	113	70	107	155	116	78	49	12	5	0	1795

FANUC LTD.

Patents By Year of Grant:	964	87	70	73	51	71	51	47	53	38	27	29	49	91	93	1794
Patents By Year of Application:	1100	87	91	36	69	61	54	27	27	32	61	74	62	13	0	1794

TAKEDA CHEMICAL INDUSTRIES LTD.

Patents By Year of Grant:	964	68	70	99	77	73	80	71	102	64	46	39	18	10	2	1783
Patents By Year of Application:	1125	93	101	85	70	49	93	65	48	42	9	1	1	1	0	1783

MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG

Patents By Year of Grant:	586	59	65	54	63	99	56	75	79	107	130	107	88	100	105	1773
Patents By Year of Application:	714	71	88	91	59	66	86	119	168	159	95	38	16	3	0	1773

ATLANTIC RICHFIELD COMPANY

Patents By Year of Grant:	1432	70	61	38	29	34	42	37	19	3	1	0	0	0	0	1766
Patents By Year of Application:	1548	46	46	31	31	37	21	5	1	0	0	0	0	0	0	1766

ITT CORPORATION

Patents By Year of Grant:	1455	81	85	69	36	24	11	2	0	0	0	0	0	1	0	1764
Patents By Year of Application:	1605	75	63	14	5	1	0	0	0	0	0	0	1	0	0	1764

NIPPON STEEL CORP.

Patents By Year of Grant:	910	79	85	72	89	94	67	56	51	62	59	41	45	28	26	1764
Patents By Year of Application:	1056	81	102	101	84	52	58	54	60	65	30	16	5	0	0	1764

Technology Assessment and Forecast Report																Page B - 19			
ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007																			
Organizational Patenting				(Granted: Jan 01, 1977 - Dec 31, 2007)								Ranked List of Organizations with 1000 or More Patents							
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL			
SCI-MED LIFE SYSTEMS, INC.																			
Patents By Year of Grant:	54	22	40	47	32	54	83	148	180	222	312	252	139	114	59	1758			
Patents By Year of Application:	110	50	57	54	114	170	229	286	332	207	110	31	7	0	1	1758			
UNIVERSITY OF TEXAS																			
Patents By Year of Grant:	467	97	89	87	81	96	91	89	89	91	94	99	89	109	90	1758			
Patents By Year of Application:	703	111	125	71	94	85	99	116	115	101	75	45	15	3	0	1758			
LUCAS INDUSTRIES PUBLIC LTD. COMPANY																			
Patents By Year of Grant:	1238	33	48	52	54	58	50	45	67	44	26	16	2	0	1	1734			
Patents By Year of Application:	1301	58	61	59	53	55	55	45	30	16	0	1	0	0	0	1734			
NORTHROP GRUMMAN CORPORATION																			
Patents By Year of Grant:	0	8	55	106	104	198	164	133	88	97	152	175	145	162	134	1721			
Patents By Year of Application:	82	82	169	139	184	146	117	150	167	134	167	104	69	11	0	1721			
WHITAKER CORPORATION																			
Patents By Year of Grant:	61	195	201	213	198	223	231	258	79	39	8	3	1	3	0	1713			
Patents By Year of Application:	362	247	221	244	278	230	103	22	5	0	1	0	0	0	0	1713			
CALIFORNIA INSTITUTE OF TECHNOLOGY																			
Patents By Year of Grant:	404	47	37	24	46	94	100	103	125	111	139	138	102	115	116	1701			
Patents By Year of Application:	499	42	73	96	96	131	136	151	176	114	92	44	41	10	0	1701			
XILINX, INC.																			
Patents By Year of Grant:	26	24	21	56	60	78	93	115	126	146	137	137	177	261	233	1690			
Patents By Year of Application:	65	37	83	81	110	108	115	188	150	191	242	194	107	18	1	1690			
SUMITOMO RUBBER INDUSTRIES, LTD.																			
Patents By Year of Grant:	450	79	76	76	69	83	71	84	91	88	130	129	79	73	69	1647			
Patents By Year of Application:	600	93	65	77	93	95	98	109	127	124	85	51	25	5	0	1647			
STANFORD UNIVERSITY																			
Patents By Year of Grant:	512	63	55	56	64	79	84	103	85	102	86	76	90	98	85	1638			
Patents By Year of Application:	644	79	87	64	93	106	110	94	114	95	79	39	26	8	0	1638			
FORD GLOBAL TECHNOLOGIES, L.L.C.																			
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	206	363	286	370	410	1635			
Patents By Year of Application:	0	0	0	0	0	1	10	75	156	409	337	293	234	118	2	1635			
FUJI ELECTRIC CO., LTD.																			
Patents By Year of Grant:	602	77	100	124	95	92	110	72	53	57	77	74	49	35	12	1629			
Patents By Year of Application:	765	126	120	90	92	71	50	77	87	79	55	9	6	2	0	1629			

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 20

----- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

----- Ranked List of Organizations with 1000 or More Patents -----

	Pre																
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL	

SEIKO INSTRUMENTS INC.

Patents By Year of Grant:	268	51	62	56	60	67	79	98	151	192	184	142	61	75	79	1625
Patents By Year of Application:	393	85	77	66	76	113	154	172	171	119	86	54	44	14	1	1625

NIPPON TELEGRAPH & TELEPHONE CORP.

Patents By Year of Grant:	712	47	54	62	67	89	58	67	79	56	65	65	52	76	64	1613
Patents By Year of Application:	802	75	77	91	89	87	81	78	56	76	53	30	15	3	0	1613

DEGUSSA AKTIENGESELLSCHAFT

Patents By Year of Grant:	690	62	42	50	48	63	49	21	39	86	102	117	86	90	66	1611
Patents By Year of Application:	784	49	55	61	65	33	45	66	182	126	87	36	18	4	0	1611

JAPAN AS REPRESENTED BY DIRECTOR GENERAL OF AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY

Patents By Year of Grant:	956	49	57	57	73	71	57	71	65	55	54	23	9	11	3	1611
Patents By Year of Application:	1039	69	78	78	72	56	63	117	8	16	8	6	1	0	0	1611

EMERSON ELECTRIC CO.

Patents By Year of Grant:	720	46	36	52	43	62	73	83	83	63	60	80	42	79	65	1587
Patents By Year of Application:	791	64	39	65	70	86	81	68	65	87	66	53	34	18	0	1587

STMICROELECTRONICS S.R.L.

Patents By Year of Grant:	0	0	0	0	0	4	57	145	237	268	219	165	160	161	168	1584
Patents By Year of Application:	2	1	13	18	48	159	238	269	263	188	183	121	62	19	0	1584

SMITHKLINE BEECHAM CORPORATION

Patents By Year of Grant:	53	7	24	24	72	98	191	197	256	211	140	90	56	81	78	1578
Patents By Year of Application:	82	44	94	69	260	218	223	165	158	158	61	20	16	10	0	1578

ASAHI KASEI KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	884	54	35	29	30	50	61	69	66	79	62	57	38	34	29	1577
Patents By Year of Application:	964	43	30	46	79	65	59	81	86	84	33	1	4	2	0	1577

UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE

Patents By Year of Grant:	842	38	49	41	49	75	71	55	67	51	63	41	29	39	26	1536
Patents By Year of Application:	939	51	67	74	65	52	52	60	72	45	35	18	6	0	0	1536

ALCOA INC.

Patents By Year of Grant:	920	58	51	53	33	57	49	35	41	38	42	42	31	32	43	1525
Patents By Year of Application:	1024	55	51	52	48	36	31	43	42	44	43	18	15	15	8	1525

AMERICAN HOME PRODUCTS CORPORATION

Patents By Year of Grant:	981	31	60	96	34	50	47	48	85	82	3	1	0	0	1	1519
Patents By Year of Application:	1044	72	96	39	38	44	75	93	15	3	0	0	0	0	0	1519

ALL PATENT TYPES REPORT (U- D- PP- RE- T- STR) - 1977-2001

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

Page B = 21

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 22

(Granted: Jan 01, 1977 - Dec 31, 2007)													Ranked List of Organizations with 1000 or More Patents					
	Organizational Patenting																	
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL		
ROLLS-ROYCE PLC																		
Patents By Year of Grant:	762	41	47	35	34	26	36	43	42	42	56	54	50	87	76	1431		
Patents By Year of Application:	831	44	41	26	48	35	43	44	52	64	73	81	44	5	0	1431		
B. F. GOODRICH CO.																		
Patents By Year of Grant:	1149	47	30	33	17	29	28	24	39	17	5	1	1	0	0	1420		
Patents By Year of Application:	1225	33	32	22	36	23	30	15	2	1	1	0	0	0	0	1420		
WISCONSIN ALUMNI RESEARCH FOUNDATION																		
Patents By Year of Grant:	393	50	44	64	62	83	86	64	74	80	85	64	77	101	91	1418		
Patents By Year of Application:	486	59	88	69	84	71	92	93	111	100	70	52	33	10	0	1418		
EXXON CHEMICALS PATENTS INC.																		
Patents By Year of Grant:	535	113	124	103	115	119	112	111	69	6	6	3	0	0	1	1417		
Patents By Year of Application:	744	108	174	98	166	84	38	4	1	0	0	0	0	0	0	1417		
WHIRLPOOL CORPORATION																		
Patents By Year of Grant:	671	45	35	46	21	43	38	39	24	53	78	51	61	74	129	1408		
Patents By Year of Application:	745	44	31	27	53	19	33	35	68	88	66	70	76	52	1	1408		
GENENTECH, INC.																		
Patents By Year of Grant:	183	28	29	44	82	133	53	78	66	69	71	62	70	147	282	1397		
Patents By Year of Application:	269	84	210	39	77	72	50	87	183	254	32	24	13	3	0	1397		
ASAHI GLASS COMPANY, LTD.																		
Patents By Year of Grant:	487	42	36	47	47	64	68	54	85	82	106	93	59	76	49	1395		
Patents By Year of Application:	555	49	50	73	83	66	80	76	101	110	62	49	30	11	0	1395		
ANALOG DEVICES, INC.																		
Patents By Year of Grant:	185	40	57	72	74	69	62	54	64	68	117	118	129	140	142	1391		
Patents By Year of Application:	256	78	107	73	55	65	71	82	116	173	113	111	70	20	1	1391		
TORAY INDUSTRIES INC.																		
Patents By Year of Grant:	692	41	44	37	62	48	61	70	72	65	62	44	36	33	23	1390		
Patents By Year of Application:	779	52	47	73	68	80	72	60	63	58	27	8	2	1	0	1390		
SCHERING CORP.																		
Patents By Year of Grant:	552	33	50	29	71	78	81	53	72	63	64	44	58	72	68	1388		
Patents By Year of Application:	644	56	111	48	67	55	67	60	77	78	64	41	16	4	0	1388		
TOYODA GOSEI KABUSHIKI KAISHA																		
Patents By Year of Grant:	380	42	48	39	52	75	67	58	50	84	87	88	116	91	108	1385		
Patents By Year of Application:	458	45	65	78	69	67	45	88	97	131	110	85	37	10	0	1385		

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 23

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

SUNDSTRAND CORPORATION

Patents By Year of Grant:	1129	57	31	45	29	45	35	8	2	0	0	0	0	0	0	1381
Patents By Year of Application:	1235	38	28	41	29	10	0	0	0	0	0	0	0	0	0	1381

3COM CORPORATION

Patents By Year of Grant:	7	9	18	20	22	37	93	161	229	196	200	182	89	83	33	1379
Patents By Year of Application:	37	19	36	40	151	278	341	264	138	49	20	6	0	0	0	1379

PIONEER CORPORATION

Patents By Year of Grant:	1	0	0	0	0	0	0	3	50	133	205	259	221	274	227	1373
Patents By Year of Application:	1	0	0	0	1	6	116	228	304	319	240	115	35	7	1	1373

PORSCHE AG

Patents By Year of Grant:	498	31	43	50	53	42	70	49	67	85	75	80	78	78	74	1373
Patents By Year of Application:	559	50	57	48	79	46	46	67	97	92	78	72	55	27	0	1373

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

Patents By Year of Grant:	30	8	20	31	58	120	130	124	72	89	102	86	112	172	206	1360
Patents By Year of Application:	45	62	51	126	144	162	77	78	106	177	160	118	44	9	1	1360

MITA INDUSTRIAL COMPANY LTD.

Patents By Year of Grant:	719	95	89	94	73	169	81	32	3	0	0	0	0	0	0	1355
Patents By Year of Application:	900	81	104	101	111	42	15	1	0	0	0	0	0	0	0	1355

VISTEON GLOBAL TECHNOLOGIES, INC.

Patents By Year of Grant:	0	0	0	0	0	0	1	30	206	188	243	274	193	138	80	1353
Patents By Year of Application:	1	0	1	2	16	54	176	201	272	301	206	78	42	3	0	1353

FUJI JUKOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	665	29	33	34	37	40	32	44	56	51	85	87	45	63	48	1349
Patents By Year of Application:	717	38	40	36	42	46	51	58	94	76	71	58	16	6	0	1349

LEYMARK INTERNATIONAL, INC.

Patents By Year of Grant:	45	23	18	37	33	60	113	134	139	121	128	108	91	118	168	1336
Patents By Year of Application:	90	30	48	61	130	91	127	153	141	125	124	157	49	8	2	1336

MITSUI TOATSU CHEMICALS INC.

Patents By Year of Grant:	919	118	96	79	72	45	2	2	0	0	0	0	1	0	0	1334
Patents By Year of Application:	1103	87	97	39	7	0	0	0	0	0	1	0	0	0	0	1334

SCHERING AKTIENGESELLSCHAFT

Patents By Year of Grant:	753	31	49	31	44	52	45	62	35	33	41	38	35	46	34	1329
Patents By Year of Application:	851	46	68	39	38	48	38	53	42	41	36	17	9	3	0	1329

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 24

----- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre																
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL	

BRUNSWICK CORPORATION

Patents By Year of Grant:	723	23	26	17	24	50	52	61	55	52	45	41	46	56	48	1319
Patents By Year of Application:	757	24	28	35	66	42	58	53	54	52	48	50	34	17	1	1319

BASF CORP.

Patents By Year of Grant:	381	63	73	101	92	97	89	82	58	83	55	45	39	31	28	1317
Patents By Year of Application:	497	76	153	106	107	68	60	72	65	52	30	18	13	0	0	1317

DAIKIN INDUSTRIES LIMITED

Patents By Year of Grant:	503	37	30	32	52	60	43	60	83	68	66	78	59	63	75	1309
Patents By Year of Application:	563	46	62	46	59	73	75	67	89	100	70	32	7	12	8	1309

PIONEER HI-BRED INTERNATIONAL, INC.

Patents By Year of Grant:	37	20	22	52	26	108	99	113	114	62	71	130	116	134	205	1309
Patents By Year of Application:	90	29	80	63	81	123	159	140	77	98	97	135	91	46	0	1309

TOYODA JIDOSHOKEI SEISAKUSHO KABUSHIKI KAISHA

Patents By Year of Grant:	453	53	51	51	49	80	88	118	133	141	67	15	3	3	2	1307
Patents By Year of Application:	537	52	62	70	118	114	117	147	88	2	0	0	0	0	0	1307

ALTERA CORPORATION

Patents By Year of Grant:	39	19	12	39	29	51	70	96	115	87	67	88	122	202	268	1304
Patents By Year of Application:	72	24	50	59	103	89	85	80	99	142	168	197	107	26	3	1304

ETHYL CORPORATION

Patents By Year of Grant:	1157	51	8	12	14	10	8	11	8	4	8	4	6	0	0	1301
Patents By Year of Application:	1218	6	17	10	11	9	10	5	4	9	2	0	0	0	0	1301

CIBA SPECIALTY CHEMICALS CORPORATION

Patents By Year of Grant:	0	0	0	0	23	164	182	158	114	142	124	99	88	114	91	1299
Patents By Year of Application:	13	5	39	120	190	176	103	137	160	170	111	56	11	8	0	1299

ZENITH ELECTRONICS CORPORATION

Patents By Year of Grant:	1001	36	31	33	33	28	25	24	17	8	16	14	10	7	14	1297
Patents By Year of Application:	1073	30	34	37	32	20	20	15	12	10	9	4	1	0	0	1297

KOBE STEEL LTD.

Patents By Year of Grant:	656	58	43	46	42	67	59	49	46	45	45	48	19	37	33	1293
Patents By Year of Application:	744	61	46	67	74	39	47	41	50	54	29	25	15	1	0	1293

THOMSON LICENSING S.A.

Patents By Year of Grant:	0	0	0	0	0	0	0	44	95	140	187	180	151	267	229	1293
Patents By Year of Application:	0	0	6	14	34	110	207	241	231	224	139	60	23	4	0	1293

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL

INTERNATIONAL FLAVORS + FRAGRANCES INC

Patents By Year of Grant:	1042	30	27	19	12	17	4	20	21	20	13	8	12	18	22	1285
Patents By Year of Application:	1076	29	18	18	11	11	26	21	20	16	18	9	9	3	0	1285

G. D. SEARLE & CO.

Patents By Year of Grant:	574	58	90	66	75	60	62	61	39	74	46	27	17	23	10	1282
Patents By Year of Application:	702	90	123	56	45	47	50	53	43	38	19	9	5	2	0	1282

DAEWOO ELECTRONICS COMPANY, LTD.

Patents By Year of Grant:	13	19	47	131	216	320	279	123	55	15	4	7	12	12	13	1266
Patents By Year of Application:	63	151	215	305	282	175	20	7	7	10	8	18	4	1	0	1266

AGERE SYSTEMS INC.

Patents By Year of Grant:	0	0	0	0	0	0	0	0	18	52	316	274	168	240	193	1261
Patents By Year of Application:	0	2	0	1	7	45	228	246	270	155	126	117	52	12	0	1261

HYUNDAI MOTOR COMPANY

Patents By Year of Grant:	12	13	17	50	72	92	93	60	118	152	106	111	119	133	109	1257
Patents By Year of Application:	42	29	90	104	111	31	99	172	103	164	155	96	53	8	0	1257

NESTEC, S.A.

Patents By Year of Grant:	367	47	64	50	45	67	108	76	97	67	73	59	47	35	38	1240
Patents By Year of Application:	471	62	63	78	85	84	71	108	87	62	46	20	3	0	0	1240

NGK SPARK PLUG CO., LTD.

Patents By Year of Grant:	450	50	34	32	22	45	64	57	68	59	92	100	54	59	46	1232
Patents By Year of Application:	520	47	36	31	75	61	73	66	97	97	62	43	18	5	1	1232

LITTON SYSTEMS INC.

Patents By Year of Grant:	539	63	73	67	35	59	78	73	92	42	36	27	16	15	10	1225
Patents By Year of Application:	675	72	35	45	84	84	89	53	34	20	13	13	8	0	0	1225

ETHICON, INC.

Patents By Year of Grant:	331	71	72	45	61	55	61	75	73	70	90	62	40	64	53	1223
Patents By Year of Application:	455	57	55	74	62	87	84	83	106	81	48	21	9	1	0	1223

BAYERISCHE MOTOREN WERKE AG

Patents By Year of Grant:	319	9	7	29	30	48	68	61	86	82	85	89	91	118	100	1222
Patents By Year of Application:	335	32	22	51	53	85	75	94	93	83	78	69	75	75	2	1222

FURUKAWA ELECTRIC CO., LTD.

Patents By Year of Grant:	266	61	47	44	26	41	53	41	52	85	134	162	100	63	45	1220
Patents By Year of Application:	364	45	39	44	61	40	51	98	184	153	81	26	25	9	0	1220

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 26

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

KAWASAKI STEEL CORPORATION

Patents By Year of Grant:	556	83	54	62	70	59	64	60	86	77	42	3	2	1	0	1219
Patents By Year of Application:	689	73	61	72	61	72	68	63	48	11	1	0	0	0	0	1219

KIMBERLY-CLARK CORPORATION

Patents By Year of Grant:	752	65	84	146	111	23	9	8	6	3	2	0	0	0	0	1209
Patents By Year of Application:	892	125	138	41	4	1	6	1	1	0	0	0	0	0	0	1209

NEC ELECTRONICS CORPORATION

Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	263	264	214	207	261	1209
Patents By Year of Application:	0	0	0	0	2	8	47	136	210	252	235	163	125	30	1	1209

SHIMANO INC.

Patents By Year of Grant:	69	83	35	31	45	68	83	100	97	98	90	65	101	138	101	1204
Patents By Year of Application:	184	36	34	70	115	73	83	98	99	95	119	94	78	26	0	1204

DART INDUSTRIES INC.

Patents By Year of Grant:	644	39	26	32	41	57	60	48	43	35	62	28	25	28	35	1203
Patents By Year of Application:	695	25	50	45	48	56	41	38	39	55	35	31	23	22	0	1203

EMC CORPORATION

Patents By Year of Grant:	8	2	11	29	21	60	69	79	91	101	135	131	131	161	173	1202
Patents By Year of Application:	18	40	55	69	101	99	127	174	170	132	94	81	31	11	0	1202

YOSHIDA KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	1043	68	66	15	2	1	0	1	0	0	0	0	0	0	0	1196
Patents By Year of Application:	1155	35	6	0	0	0	0	0	0	0	0	0	0	0	0	1196

MITSUBISHI JUKOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	821	69	65	61	57	59	32	14	4	1	4	3	1	1	0	1192
Patents By Year of Application:	935	61	73	76	30	5	3	4	2	3	0	0	0	0	0	1192

BRITISH TELECOMMUNICATION, PLC

Patents By Year of Grant:	405	50	64	49	37	74	80	72	94	58	48	32	31	40	57	1191
Patents By Year of Application:	526	73	48	92	83	184	34	59	58	24	9	1	0	0	0	1191

DAI NIPPON PRINTING CO. LTD

Patents By Year of Grant:	55	31	43	59	61	103	86	105	87	78	91	113	86	103	90	1191
Patents By Year of Application:	137	55	87	100	101	97	103	73	128	117	103	62	24	4	0	1191

GILLETTE COMPANY

Patents By Year of Grant:	444	52	36	31	29	60	55	72	69	62	53	50	54	64	56	1187
Patents By Year of Application:	529	36	37	56	57	50	72	87	54	54	66	42	38	7	2	1187

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 27

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

NSK LIMITED

Patents By Year of Grant:	30	45	55	78	67	60	59	71	117	117	105	111	88	90	93	1186
Patents By Year of Application:	111	66	92	62	80	84	105	107	145	133	105	55	33	8	0	1186

JOHNS HOPKINS UNIVERSITY

Patents By Year of Grant:	254	23	28	27	47	79	98	74	80	81	71	94	72	91	62	1181
Patents By Year of Application:	323	47	94	68	68	103	90	82	87	88	78	43	8	2	0	1181

SANDOZ LTD.

Patents By Year of Grant:	918	44	45	85	57	20	10	0	0	0	0	0	0	0	0	1179
Patents By Year of Application:	1007	67	81	16	8	0	0	0	0	0	0	0	0	0	0	1179

EBARA CORPORATION

Patents By Year of Grant:	165	29	30	29	54	75	78	75	83	123	97	97	81	80	82	1178
Patents By Year of Application:	219	35	54	85	98	79	71	145	136	91	77	51	27	8	2	1178

UNITED STATES SURGICAL CORPORATION

Patents By Year of Grant:	311	118	160	141	97	93	98	46	33	17	16	14	9	14	10	1177
Patents By Year of Application:	582	143	128	99	89	39	24	16	24	11	11	4	4	2	1	1177

L'AIR LIQUIDE, SOCIETE ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE

Patents By Year of Grant:	345	45	58	52	35	50	76	75	130	81	80	39	36	31	38	1171
Patents By Year of Application:	422	63	49	56	72	79	113	103	89	43	50	26	6	0	0	1171

STAUFFER CHEMICAL COMPANY

Patents By Year of Grant:	1166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1166
Patents By Year of Application:	1166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1166

DRESSER INDUSTRIES, INC.

Patents By Year of Grant:	936	22	12	15	25	27	46	44	23	7	2	0	1	0	0	1160
Patents By Year of Application:	960	22	26	27	38	59	21	4	2	1	0	0	0	0	0	1160

MANNESMANN AG

Patents By Year of Grant:	634	61	52	54	47	59	65	69	62	24	24	3	2	0	0	1156
Patents By Year of Application:	735	56	58	56	70	64	79	24	13	1	0	0	0	0	0	1156

SINGER COMPANY

Patents By Year of Grant:	1148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1148
Patents By Year of Application:	1148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1148

SMITHKLINE BECKMAN CORPORATION

Patents By Year of Grant:	982	27	37	27	21	24	21	0	0	1	0	0	0	1	2	1143
Patents By Year of Application:	1044	28	34	17	15	3	0	0	0	0	2	0	0	0	0	1143

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

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 28

----- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) -

--- Ranked List of Organizations with 1000 or More Patents ---

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
MEAD CORPORATION																
Patents By Year of Grant:	835	38	27	21	32	54	40	29	25	22	16	0	0	0	0	1139
Patents By Year of Application:	892	25	30	46	43	32	19	35	10	7	0	0	0	0	0	1139
DAINIPPON SCREEN MFG. CO., LTD.																
Patents By Year of Grant:	584	40	36	29	40	52	55	37	20	17	18	51	50	64	44	1137
Patents By Year of Application:	662	35	43	64	44	48	8	9	22	66	77	41	15	3	0	1137
TEIJIN LIMITED																
Patents By Year of Grant:	597	44	43	38	47	37	37	43	55	57	45	41	22	17	11	1134
Patents By Year of Application:	666	56	57	33	35	48	56	50	67	44	19	3	0	0	0	1134
KOHLER CO.																
Patents By Year of Grant:	365	62	25	23	32	43	38	32	48	42	61	71	74	115	102	1133
Patents By Year of Application:	436	26	30	42	40	21	35	59	47	61	70	110	102	48	6	1133
NATIONAL RESEARCH DEVELOPMENT CORPORATION																
Patents By Year of Grant:	1114	3	1	0	1	1	1	2	3	3	1	0	1	0	0	1131
Patents By Year of Application:	1119	1	2	0	0	4	1	2	1	1	0	0	0	0	0	1131
AMERICAN STANDARD, INC.																
Patents By Year of Grant:	685	37	42	53	31	47	79	87	18	16	19	6	0	0	0	1120
Patents By Year of Application:	743	49	57	46	44	74	71	5	11	20	0	0	0	0	0	1120
MCDONNELL DOUGLAS CORP.																
Patents By Year of Grant:	563	26	40	43	52	111	138	77	41	15	3	8	0	1	0	1118
Patents By Year of Application:	623	55	53	115	154	80	20	6	7	5	0	0	0	0	0	1118
MITSUBISHI GAS-CHEMICAL COMPANY, INC.																
Patents By Year of Grant:	489	51	51	40	33	47	66	43	51	48	46	38	27	45	40	1115
Patents By Year of Application:	572	45	40	54	53	52	53	48	55	55	37	39	11	1	0	1115
NALCO CHEMICAL COMPANY																
Patents By Year of Grant:	732	71	69	30	34	33	34	41	38	31	0	0	0	0	0	1113
Patents By Year of Application:	843	48	48	35	32	40	35	28	4	0	0	0	0	0	0	1113
STMICROELECTRONICS S.A.																
Patents By Year of Grant:	0	0	0	0	0	1	22	78	109	138	148	150	136	170	158	1110
Patents By Year of Application:	1	1	1	7	3	103	170	192	133	182	156	110	46	5	0	1110
CASE CORPORATION																
Patents By Year of Grant:	586	17	21	26	23	37	67	79	73	51	77	49	1	2	0	1109
Patents By Year of Application:	615	29	37	53	53	67	78	53	68	42	14	0	0	0	0	1109

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL

VLSI TECHNOLOGY, INC.

Patents By Year of Grant:	156	89	112	100	94	150	158	135	88	27	0	0	0	0	0	1109
Patents By Year of Application:	354	102	116	162	186	108	69	11	1	0	0	0	0	0	0	1109

SEAGATE TECHNOLOGY, INCORPORATED

Patents By Year of Grant:	203	48	40	65	98	164	193	237	29	15	8	3	2	2	0	1107
Patents By Year of Application:	283	88	122	142	246	162	46	9	5	0	4	0	0	0	0	1107

UNION OIL COMPANY OF CALIFORNIA

Patents By Year of Grant:	940	47	28	11	15	14	8	13	8	4	5	3	1	1	1	1099
Patents By Year of Application:	1015	19	16	6	9	13	6	5	4	2	2	0	1	1	0	1099

AJINOMOTO COMPANY INCORPORATED

Patents By Year of Grant:	357	41	35	42	38	53	51	46	61	64	49	66	49	60	79	1091
Patents By Year of Application:	433	43	49	52	60	40	59	86	80	87	32	46	22	2	0	1091

MITSUBISHI HEAVY INDUSTRIES, LTD.

Patents By Year of Grant:	3	1	0	0	0	14	88	150	167	140	155	121	110	69	72	1090
Patents By Year of Application:	4	0	0	0	84	179	181	124	163	192	83	52	17	11	0	1090

BABCOCK & WILCOX COMPANY

Patents By Year of Grant:	732	42	53	71	56	38	9	14	16	15	7	7	13	3	7	1083
Patents By Year of Application:	802	80	67	38	22	12	12	13	9	15	6	4	3	0	0	1083

GOLDSTAR COMPANY, LTD.

Patents By Year of Grant:	418	155	183	182	85	36	13	1	2	1	0	0	0	0	0	1076
Patents By Year of Application:	747	217	61	40	10	0	1	0	0	0	0	0	0	0	0	1076

CONOCO, INC.

Patents By Year of Grant:	966	19	13	11	7	7	7	2	9	21	5	3	0	0	0	1070
Patents By Year of Application:	994	13	7	8	8	4	11	14	8	3	0	0	0	0	0	1070

CORNELL RESEARCH FOUNDATION INC.

Patents By Year of Grant:	339	41	36	54	50	64	71	49	63	36	61	40	41	66	56	1067
Patents By Year of Application:	432	61	72	64	67	65	44	65	56	55	33	31	15	6	1	1067

COMBUSTION ENGINEERING INC.

Patents By Year of Grant:	867	59	26	19	15	39	22	14	3	0	0	0	0	0	0	1064
Patents By Year of Application:	948	29	17	28	24	14	3	1	0	0	0	0	0	0	0	1064

NOVO NORDISK A/S

Patents By Year of Grant:	86	50	32	61	102	124	179	142	93	39	56	24	29	24	20	1061
Patents By Year of Application:	187	84	149	74	164	144	91	46	59	30	27	3	2	1	0	1061

Technology Assessment and Forecast Report

ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007

Page B - 30

Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2007)

Ranked List of Organizations with 1000 or More Patents

	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL
--	-------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

SYMBOL TECHNOLOGIES, INC.

Patents By Year of Grant:	110	34	44	46	47	66	67	55	39	52	66	92	72	130	141	1061
Patents By Year of Application:	177	53	71	63	71	61	39	84	96	93	95	91	51	16	0	1061

EASTMAN CHEMICAL COMPANY

Patents By Year of Grant:	2	64	94	67	81	63	111	119	109	97	78	54	37	28	56	1060
Patents By Year of Application:	107	87	118	69	103	124	106	104	76	59	58	32	10	6	1	1060

BENDIX CORPORATION (NOW ALLIED-SIGNAL INC.)

Patents By Year of Grant:	1048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1048
Patents By Year of Application:	1048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1048

AKZO NOBEL NV

Patents By Year of Grant:	0	21	57	59	87	105	121	98	89	94	109	72	56	47	32	1047
Patents By Year of Application:	69	89	109	83	125	104	90	100	127	91	48	11	0	1	0	1047

LG SEMICON CO., LTD.

Patents By Year of Grant:	0	0	0	32	119	235	312	255	42	30	8	4	2	0	1	1040
Patents By Year of Application:	2	10	140	230	329	237	69	10	8	3	1	1	0	0	0	1040

RAYCHEM CORPORATION

Patents By Year of Grant:	802	37	40	34	35	51	36	5	0	0	0	0	0	0	0	1040
Patents By Year of Application:	878	31	50	42	35	4	0	0	0	0	0	0	0	0	0	1040

SANSHIN KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	402	57	32	74	58	83	70	87	63	72	35	2	1	1	0	1037
Patents By Year of Application:	491	48	72	99	79	85	64	64	30	5	0	0	0	0	0	1037

HERCULES INCORPORATED

Patents By Year of Grant:	703	34	26	42	37	32	22	32	36	29	17	7	6	5	8	1036
Patents By Year of Application:	767	47	38	33	35	31	22	29	12	9	8	3	1	1	0	1036

HILTI AKTIENGESELLSCHAFT

Patents By Year of Grant:	354	23	15	28	39	39	30	61	36	59	86	75	65	77	45	1032
Patents By Year of Application:	386	22	35	43	38	38	52	62	92	92	81	65	20	6	0	1032

OTIS ELEVATOR COMPANY

Patents By Year of Grant:	363	87	52	54	55	88	74	42	37	68	33	25	15	19	16	1028
Patents By Year of Application:	492	73	69	76	66	37	48	68	41	29	23	3	3	0	0	1028

KOITO MANUFACTURING COMPANY LIMITED

Patents By Year of Grant:	192	27	38	46	39	50	51	61	67	84	97	63	52	67	88	1022
Patents By Year of Application:	247	50	50	55	47	62	56	93	77	87	74	64	50	10	0	1022

Technology Assessment and Forecast Report																	Page B - 31				
ALL PATENT TYPES REPORT (U, D, PP, RE, T, SIR), 1977-2007																					
Organizational Patenting					(Granted: Jan 01, 1977 - Dec 31, 2007)										Ranked List of Organizations with 1000 or More Patents						
	Pre 1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TOTAL					
STANDARD OIL COMPANY																					
Patents By Year of Grant:	917	11	9	7	15	10	11	11	8	9	2	2	5	4	1	1022					
Patents By Year of Application:	931	10	16	10	11	12	12	6	6	4	3	0	1	0	0	1022					
SHOWA DENKO KABUSHIKI KAISHA																					
Patents By Year of Grant:	294	25	20	18	29	32	37	52	70	85	70	86	63	88	48	1017					
Patents By Year of Application:	331	29	31	27	52	54	59	91	109	108	78	36	9	3	0	1017					
DAIMLERCHRYSLER CORPORATION																					
Patents By Year of Grant:	0	0	0	0	0	0	34	163	209	161	75	110	90	100	71	1013					
Patents By Year of Application:	0	1	2	8	22	61	302	172	76	92	122	79	53	22	1	1013					
CARDIAC PACEMAKERS, INC.																					
Patents By Year of Grant:	83	18	13	9	12	20	27	63	71	94	112	89	110	136	154	1011					
Patents By Year of Application:	110	10	17	11	31	70	102	141	158	141	123	69	24	4	0	1011					
MILES INC.																					
Patents By Year of Grant:	846	90	62	6	7	0	0	0	0	0	0	0	0	0	0	0	1011				
Patents By Year of Application:	973	33	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1011				
BELLSOUTH INTELLECTUAL PROPERTY CORPORATION																					
Patents By Year of Grant:	0	0	0	0	0	0	12	19	26	61	90	185	191	309	117	1010					
Patents By Year of Application:	0	0	1	8	27	31	95	163	221	242	136	66	16	4	0	1010					
ADVANCED CARDIOVASCULAR SYSTEMS, INC.																					
Patents By Year of Grant:	102	24	24	33	23	30	37	54	76	96	184	109	78	68	68	1006					
Patents By Year of Application:	158	30	30	27	57	58	137	157	151	105	68	19	6	3	0	1006					
SAMSUNG SDI CO., LTD.																					
Patents By Year of Grant:	0	0	0	0	0	0	0	0	26	108	118	150	125	162	315	1004					
Patents By Year of Application:	0	0	0	0	0	5	31	160	135	183	185	198	97	10	0	1004					
KAWASAKI JUKOGYO KABUSHIKI KAISHA																					
Patents By Year of Grant:	466	24	22	12	9	15	23	26	46	42	52	56	75	75	59	1002					
Patents By Year of Application:	506	13	13	18	23	20	43	40	48	64	87	65	38	23	1	1002					
ADVANTEST CORP.																					
Patents By Year of Grant:	60	12	14	20	41	80	76	75	104	123	92	73	52	86	93	1001					
Patents By Year of Application:	84	23	42	78	90	103	134	99	90	59	73	63	43	19	1	1001					
FREESCALE SEMICONDUCTOR, INC.																					
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	135	256	287	322	1000					
Patents By Year of Application:	0	0	0	0	1	0	8	45	77	210	247	195	188	26	3	1000					
Other Organizations (231491)																					
Patents By Year of Grant:	622407	50557	50987	54631	57504	75490	79019	82414	88267	89166	90779	87990	77299	97553	93772	1697835					
Patents By Year of Application:	716153	61166	73455	71868	83483	84702	92318	99980	104838	103536	88064	64251	37733	15041	1247	1697835					