

# PTMD SPECIAL REPORT

## ALL PATENTS, ALL TYPES

JANUARY 1977 -- DECEMBER 2003



March 2004

U.S. PATENT AND TRADEMARK OFFICE  
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*A PATENT TECHNOLOGY MONITORING DIVISION REPORT*

PTMD Special Report  
All Patents, All Types  
1/1977 - 12/31/2003  
Explanation of Data

This Patent Technology Monitoring Division (PTMD) 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, 2003**. The source of the data used for this report is the PTMD database maintained by the Office for Electronic Information Products.

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 1990**" column corresponds to the period **January 1, 1977** through **December 31, 1989**.

**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 (utility) 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 2003**.

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 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. 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.

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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.

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\* As of 12/31/2003, UTILITY patent application data (most issued patent documents are utility patents) were approximately 92% complete for patent applications filed in 1999 and 76% complete for applications filed in 2000 and 50% complete for 2001. They are essentially complete for applications filed prior to 1999.

## Part A1

Patent Grants as Distributed By Year of Patent Grant

----- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2003) -----

	NUMBER OF PATENTS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	959366	99220	106840	107511	109890	113704	113955	121805	124147	163206	169146	176084	184048	184427	187053	2920402
U.S. Origin	556267	52977	57788	58791	61221	64345	64510	69419	69923	90698	94090	97012	98660	97127	98598	1631426
Foreign Origin	403099	46243	49052	48720	48669	49359	49445	52386	54224	72508	75056	79072	85388	87300	88455	1288976
JAPAN	147441	20743	22401	23164	23411	23517	22871	24059	24191	32118	32514	32922	34891	36340	37250	537833
GERMANY	84543	7862	7984	7605	7186	6989	6874	7125	7292	9582	9895	10824	11893	11957	12140	209751
FRANCE	30960	3093	3249	3282	3155	2985	3010	3016	3202	3991	4097	4173	4456	4421	4127	81217
UNITED KINGDOM	33754	3017	3049	2632	2521	2469	2681	2674	2904	3726	3900	4090	4356	4196	4031	80000
CANADA	18088	2087	2304	2218	2231	2380	2447	2638	2817	3537	3678	3925	4063	3857	3893	60163
TAIWAN	2674	861	1096	1253	1510	1814	2087	2419	2597	3805	4526	5806	6545	6730	6676	50399
SWITZERLAND	16564	1347	1448	1294	1198	1244	1187	1192	1179	1374	1390	1458	1557	1532	1433	35397
ITALY	12311	1498	1388	1446	1453	1361	1242	1385	1417	1821	1686	1967	1978	1962	2022	34937
SOUTH KOREA	650	290	449	586	830	1008	1240	1567	1965	3362	3679	3472	3763	4009	4132	31002
SWEDEN	11456	885	831	727	742	800	914	971	970	1346	1542	1738	1933	1824	1629	28308
NETHERLANDS	10074	1046	1075	974	944	998	894	886	895	1382	1396	1410	1494	1681	1570	26719
AUSTRALIA	4889	517	571	497	470	564	548	566	568	830	832	860	1031	992	1047	14782
BELGIUM	3550	352	366	371	377	392	419	516	561	755	718	756	796	801	727	11457
ISRAEL	2147	311	321	350	358	388	432	525	577	820	792	836	1031	1108	1260	11256
AUSTRIA	3955	423	388	403	340	316	359	387	393	408	505	537	632	559	639	10244
FINLAND	2307	315	343	381	311	341	387	453	468	629	695	649	769	856	944	9848
DENMARK	2378	204	285	275	261	313	314	334	432	500	588	509	556	559	611	8119
CHINA,HONG KONG S.A.R	906	151	209	159	182	220	248	247	261	373	413	548	621	589	681	5808
SPAIN	1176	148	185	149	184	172	168	187	193	308	265	318	340	358	358	4509
NORWAY	1371	119	119	121	127	130	138	150	157	232	246	266	282	261	279	3998
U.S.S.R.	3309	177	182	67	67	57	12	16	4	6	3	1		1	1	3903
SOUTH AFRICA	1190	122	111	101	101	109	127	116	114	132	127	125	137	123	131	2866
SINGAPORE	82	16	25	35	44	59	61	97	100	136	152	242	304	421	460	2234
NEW ZEALAND	729	65	50	60	51	54	60	78	109	145	134	136	160	173	165	2169
HUNGARY	1318	93	86	89	62	48	51	43	25	52	39	38	61	48	72	2125
CHINA P.REP.	148	48	52	41	53	48	63	48	66	88	99	163	265	390	424	1996
IRELAND	389	61	61	61	59	52	59	88	78	81	104	139	166	148	187	1733
RUSSIAN FEDERATION					3	38	99	118	112	194	185	185	239	203	202	1578
BRAZIL	356	45	66	43	59	61	70	69	67	88	98	113	125	112	180	1552
INDIA	152	23	24	24	30	28	38	37	48	94	114	131	179	267	355	1544
MEXICO	533	34	42	45	50	52	45	46	57	77	94	100	87	105	92	1459
LUXEMBOURG	366	27	42	36	41	44	34	27	42	46	35	55	48	52	53	948
CZECHOSLOVAKIA	656	39	27	18	15	20	15	9	10	9	5	10	7	2	1	843
ARGENTINA	265	19	19	23	25	37	32	32	38	46	46	63	58	58	70	831
VENEZUELA	173	20	25	24	34	28	31	30	26	29	39	32	28	32	20	571
POLAND	282	17	8	5	8	9	8	16	11	19	20	13	16	13	19	464
Others ( 128 )	1957	168	171	161	176	214	180	219	278	367	405	462	521	560	574	6413
Ownership:																
U.S. Corporations	416941	39268	42886	44043	46093	48750	49049	53541	55305	72358	75934	78822	82075	81118	82806	1268989
U.S. Government	14646	1064	1272	1225	1234	1310	1083	960	974	1039	999	961	985	939	890	29581
U.S. Individuals	148817	15091	16234	15650	16100	16527	16813	17415	16285	20765	20540	20352	18842	17497	16903	393831
Foreign Corporations	320602	37995	40323	40930	41078	41540	41353	44191	45641	61424	64225	68060	74033	76856	78687	1076938
Foreign Government	4740	427	473	474	442	300	250	260	278	258	164	108	97	115	89	8475
Foreign Individuals	53620	5375	5652	5189	4943	5277	5407	5438	5664	7362	7284	7781	8016	7902	7678	142588

----- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2003) -----

	PERCENT OF PATENTS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	58	53	54	55	56	57	57	57	56	56	56	55	54	53	53	56
Foreign Origin	42	47	46	45	44	43	43	43	44	44	44	45	46	47	47	44
JAPAN	15	21	21	22	21	21	20	20	19	20	19	19	19	20	20	18
GERMANY	9	8	7	7	7	6	6	6	6	6	6	6	6	6	6	7
FRANCE	3	3	3	3	3	3	3	2	3	2	2	2	2	2	2	3
UNITED KINGDOM	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TAIWAN		1	1	1	1	2	2	2	2	2	3	3	4	4	4	2
SWITZERLAND	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ITALY	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOUTH KOREA				1	1	1	1	1	2	2	2	2	2	2	2	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
BELGIUM																0
ISRAEL										1			1	1	1	0
AUSTRIA																0
FINLAND															1	0
DENMARK																0
CHINA,HONG KONG S.A.R																0
SPAIN																0
NORWAY																0
U.S.S.R.																0
SOUTH AFRICA																0
SINGAPORE																0
NEW ZEALAND																0
HUNGARY																0
CHINA P.REP.																0
IRELAND																0
RUSSIAN FEDERATION																0
BRAZIL																0
INDIA																0
MEXICO																0
LUXEMBOURG																0
CZECHOSLOVAKIA																0
ARGENTINA																0
VENEZUELA																0
POLAND																0
Others ( 128 )																0
Ownership:																
U.S. Corporations	43	40	40	41	42	43	43	44	45	44	45	45	45	44	44	43
U.S. Government	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U.S. Individuals	16	15	15	15	15	15	15	14	13	13	12	12	10	9	9	13
Foreign Corporations	33	38	38	38	37	37	36	36	37	38	38	39	40	42	42	37
Foreign Government																0
Foreign Individuals	6	5	5	5	4	5	5	4	5	5	4	4	4	4	4	5

## Part A2

Patent Grants as Distributed By Year of Patent Application

----- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) -----																	
NUMBER OF PATENTED APPLICATIONS																	
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total	
Total	1141016	108654	109653	113420	118341	135001	156748	157765	182383	178913	180106	164270	124129	47393	2610	2920402	
U.S. Origin	652843	59660	60630	63848	67734	76394	90013	86627	100555	98482	97879	86958	63073	25109	1621	1631426	
Foreign Origin	488173	48994	49023	49572	50607	58607	66735	71138	81828	80431	82227	77312	61056	22284	989	1288976	
JAPAN	186401	23104	23787	23902	23365	27124	30159	32000	36778	33782	32573	31625	24847	8070	316	537833	
GERMANY	98255	7786	7166	7223	7174	7938	8944	9180	10748	10674	11993	11110	8761	2734	65	209751	
FRANCE	36733	3249	3185	3114	3133	3411	3998	3817	4355	4187	4384	3985	2765	879	22	81217	
UNITED KINGDOM	39407	2813	2519	2473	2719	3168	3706	3649	4161	4212	4291	3557	2454	848	23	80000	
CANADA	21849	2169	2296	2296	2609	2893	3537	3452	3968	4104	3880	3514	2522	1022	52	60163	
TAIWAN	3973	1130	1362	1543	1911	2344	2805	3518	4193	5326	6597	5949	5992	3482	274	50399	
SWITZERLAND	19118	1265	1235	1215	1232	1332	1435	1312	1453	1460	1493	1428	1045	362	12	35397	
ITALY	14961	1417	1364	1404	1328	1483	1694	1686	1876	1824	1943	1871	1519	541	26	34937	
SOUTH KOREA	1345	559	836	963	1098	1698	2179	3590	3914	4010	3570	3405	2751	1040	44	31002	
SWEDEN	12982	760	785	798	945	1111	1238	1278	1833	1876	1814	1530	1042	309	7	28308	
NETHERLANDS	11942	1035	952	957	999	1052	1183	1342	1562	1378	1435	1431	1038	399	14	26719	
AUSTRALIA	5941	516	499	533	583	634	743	824	832	987	926	875	635	246	8	14782	
BELGIUM	4205	387	363	381	437	547	745	745	744	764	766	679	479	203	12	11457	
ISRAEL	2760	338	377	378	453	656	737	745	869	962	1148	959	676	192	6	11256	
AUSTRIA	4647	426	357	333	355	417	478	424	491	551	590	564	443	161	7	10244	
FINLAND	2884	367	366	355	384	501	561	719	774	735	821	706	506	168	1	9848	
DENMARK	2828	303	257	243	325	391	567	469	548	598	562	476	406	144	2	8119	
CHINA,HONG KONG S.A.R	1252	165	159	204	210	239	267	351	331	456	549	575	607	398	45	5808	
SPAIN	1467	166	160	182	168	219	234	271	302	302	296	335	283	118	6	4509	
NORWAY	1581	124	128	134	150	157	203	220	252	237	305	255	185	65	2	3998	
U.S.S.R.	3583	138	82	53	20	11	9	2	3	2						3903	
SOUTH AFRICA	1403	104	92	103	149	141	112	130	120	138	136	116	99	21	2	2866	
SINGAPORE	124	24	37	67	64	103	107	147	189	229	332	367	296	142	6	2234	
NEW ZEALAND	843	57	52	55	57	109	107	133	169	132	141	159	119	34	2	2169	
HUNGARY	1496	86	68	46	47	45	51	38	38	53	52	58	31	16		2125	
CHINA P.REP.	232	43	53	50	74	52	68	82	107	132	212	304	366	211	10	1996	
IRELAND	503	58	60	54	63	109	84	88	117	170	132	139	111	44	1	1733	
RUSSIAN FEDERATION			2	27	99	129	149	189	196	190	240	196	132	29		1578	
BRAZIL	453	43	59	59	64	99	71	89	98	106	124	116	95	66	10	1552	
INDIA	198	26	24	35	37	42	54	87	127	139	181	236	258	95	5	1544	
MEXICO	604	38	51	56	42	57	54	80	98	98	96	83	83	17	2	1459	
LUXEMBOURG	424	38	36	42	29	43	31	40	60	43	45	56	39	22		948	
CZECHOSLOVAKIA	719	17	15	21	21	11	11	8	4	7	9					843	
ARGENTINA	294	30	27	24	42	39	37	50	45	63	47	65	49	17	2	831	
VENEZUELA	205	30	31	37	30	28	27	28	35	31	36	29	21	3		571	
POLAND	303	8	9	6	14	16	9	19	18	15	20	13	9	5		464	
Others ( 128 )	2258	175	172	206	177	258	341	336	420	458	488	546	392	181	5	6413	
Ownership:																	
U.S. Corporations	489623	44395	45680	49125	52077	59190	72347	70108	82303	81200	80875	71199	50767	18949	1151	1268989	
U.S. Government	16900	1272	1247	1291	1271	1112	1183	946	975	921	792	814	617	232	8	29581	
U.S. Individuals	174774	16351	15862	15657	16916	18939	19726	18917	20763	19246	18999	17462	13323	6385	511	393831	
Foreign Corporations	391089	40901	41405	42058	42386	49377	56851	60729	70771	70274	71453	67032	53111	18754	747	1076938	
Foreign Government	5552	477	434	347	267	294	298	249	171	113	104	101	48	20		8475	
Foreign Individuals	63078	5258	5025	4942	5424	6089	6343	6816	7400	7159	7883	7662	6263	3053	193	142588	

----- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) -----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	57	55	55	56	57	57	57	55	55	55	54	53	51	53	62	56
Foreign Origin	43	45	45	44	43	43	43	45	45	45	46	47	49	47	38	44
JAPAN	16	21	22	21	20	20	19	20	20	19	18	19	20	17	12	18
GERMANY	9	7	7	6	6	6	6	6	6	6	7	7	7	6	2	7
FRANCE	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	3
UNITED KINGDOM	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	3
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TAIWAN		1	1	1	2	2	2	2	2	3	4	4	5	7	10	2
SWITZERLAND	2	1	1	1	1	1	1	1	1	1	1	1	1	1		1
ITALY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOUTH KOREA		1	1	1	1	1	1	2	2	2	2	2	2	2	2	1
SWEDEN	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
BELGIUM																0
ISRAEL										1	1	1	1			0
AUSTRIA																0
FINLAND																0
DENMARK																0
CHINA,HONG KONG S.A.R														1	2	0
SPAIN																0
NORWAY																0
U.S.S.R.																0
SOUTH AFRICA																0
SINGAPORE																0
NEW ZEALAND																0
HUNGARY																0
CHINA P.REP.																0
IRELAND																0
RUSSIAN FEDERATION																0
BRAZIL																0
INDIA																0
MEXICO																0
LUXEMBOURG																0
CZECHOSLOVAKIA																0
ARGENTINA																0
VENEZUELA																0
POLAND																0
Others ( 128 )																0
Ownership:																
U.S. Corporations	43	41	42	43	44	44	46	44	45	45	45	43	41	40	44	43
U.S. Government	1	1	1	1	1	1	1	1	1	1	1					1
U.S. Individuals	15	15	14	14	14	14	13	12	11	11	11	11	11	13	20	13
Foreign Corporations	34	38	38	37	36	37	36	38	39	39	40	41	43	40	29	37
Foreign Government																0
Foreign Individuals	6	5	5	4	5	5	4	4	4	4	4	5	5	6	7	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, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
INTERNATIONAL BUSINESS MACHINES CORPORATION																
Patents By Year of Grant:	6902	644	714	875	1139	1356	1468	1930	1781	2685	2778	2905	3429	3297	3438	35341
Patents By Year of Application:	8281	932	1266	1550	1311	1916	2608	2755	3559	3617	3621	2269	1298	336	22	35341
CANON KABUSHIKI KAISHA																
Patents By Year of Grant:	5701	923	916	1191	1108	1161	1164	1610	1458	2000	1864	1971	1976	1951	2051	27045
Patents By Year of Application:	7403	1064	1223	1329	1399	1967	2531	2049	2449	1672	1584	1199	923	245	8	27045
HITACHI, LTD																
Patents By Year of Grant:	7812	935	953	969	950	989	924	970	914	1110	1024	1059	1296	1623	1908	23436
Patents By Year of Application:	9896	1040	1035	936	925	993	1146	1017	1074	974	1215	1301	1331	537	16	23436
GENERAL ELECTRIC COMPANY																
Patents By Year of Grant:	10095	810	840	952	943	977	765	824	669	738	702	790	1122	1423	1142	22792
Patents By Year of Application:	11545	906	897	957	874	896	846	737	775	915	1174	1202	864	200	4	22792
TOSHIBA CORPORATION																
Patents By Year of Grant:	6249	957	1079	1088	1072	1002	1009	957	889	1237	1232	1271	1189	1181	1254	21666
Patents By Year of Application:	8113	1102	1206	969	915	1113	1131	1274	1382	1313	1085	897	801	350	15	21666
NEC CORPORATION																
Patents By Year of Grant:	2415	447	441	465	611	918	1009	1054	1105	1639	1849	2042	1970	1847	1200	19012
Patents By Year of Application:	3263	436	623	902	786	1362	1278	1690	2323	2321	1978	1276	645	127	2	19012
MITSUBISHI DENKI KABUSHIKI KAISHA																
Patents By Year of Grant:	3514	899	950	979	939	982	974	938	900	1092	1073	1047	1208	1399	1264	18158
Patents By Year of Application:	5119	988	1091	987	949	983	1122	1087	1181	1047	1090	1118	1051	335	10	18158
SONY CORPORATION																
Patents By Year of Grant:	2768	279	354	463	637	747	805	945	944	1445	1641	1666	1546	1605	1470	17315
Patents By Year of Application:	3410	423	632	807	796	995	1273	1555	2104	1735	1550	1066	710	250	9	17315
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.																
Patents By Year of Grant:	3203	361	485	627	762	800	921	887	784	1090	1107	1217	1500	1593	1903	17240
Patents By Year of Application:	3980	613	776	819	907	974	1005	1100	1327	1385	1503	1369	1065	389	28	17240
MOTOROLA, INC.																
Patents By Year of Grant:	3373	420	637	691	791	960	1108	1163	1186	1542	1273	1267	811	729	668	16619
Patents By Year of Application:	4223	713	839	918	1078	1304	1499	1527	1496	1084	706	777	295	148	12	16619
EASTMAN KODAK COMPANY																
Patents By Year of Grant:	3833	736	879	790	1011	900	784	796	802	1145	1012	894	733	703	757	15775
Patents By Year of Application:	5072	921	933	1045	793	785	792	1213	1109	1119	630	671	526	164	2	15775

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>FUJITSU LIMITED</b>																
Patents By Year of Grant:	1845	265	368	418	454	595	732	872	908	1232	1200	1155	1176	1216	1306	13742
Patents By Year of Application:	2406	447	548	605	691	1020	1230	1294	1449	1383	1025	805	620	207	12	13742
<b>SIEMENS AKTIENGESELLSCHAFT</b>																
Patents By Year of Grant:	5817	511	479	402	374	381	429	418	455	627	744	915	801	698	683	13734
Patents By Year of Application:	6624	463	380	411	413	468	518	623	841	940	878	601	453	117	4	13734
<b>U.S. PHILIPS CORPORATION</b>																
Patents By Year of Grant:	6111	666	693	554	462	429	527	501	499	760	764	723	754	267	4	13714
Patents By Year of Application:	7302	611	510	462	471	602	698	770	828	707	497	209	47	0	0	13714
<b>FUJII PHOTO FILM CO., LTD</b>																
Patents By Year of Grant:	4351	784	762	671	660	571	523	524	481	560	550	552	605	709	845	13148
Patents By Year of Application:	5751	687	672	591	529	543	559	638	674	546	575	689	516	168	10	13148
<b>XEROX CORPORATION</b>																
Patents By Year of Grant:	3456	255	354	474	564	615	554	706	610	776	671	592	726	697	646	11696
Patents By Year of Application:	3969	485	572	590	656	708	727	693	645	847	757	555	317	162	13	11696
<b>SAMSUNG ELECTRONICS CO., LTD.</b>																
Patents By Year of Grant:	49	63	148	255	358	419	439	495	591	1309	1557	1449	1449	1340	1316	11237
Patents By Year of Application:	275	240	386	415	423	512	664	1538	1605	1804	1324	952	786	304	9	11237
<b>AT&amp;T CORP.</b>																
Patents By Year of Grant:	5707	450	504	457	470	615	654	523	49	150	279	295	291	285	209	10938
Patents By Year of Application:	6516	520	475	590	702	488	214	219	486	329	218	108	59	14	0	10938
<b>BAYER AKTIENGESELLSCHAFT</b>																
Patents By Year of Grant:	5297	501	493	475	443	345	328	323	357	382	342	306	364	399	348	10703
Patents By Year of Application:	6145	483	393	420	360	345	400	415	385	281	349	307	316	101	3	10703
<b>E. I. DU PONT DE NEMOURS AND COMPANY</b>																
Patents By Year of Grant:	4598	485	607	609	573	492	445	397	313	399	341	341	337	316	341	10594
Patents By Year of Application:	5505	645	555	510	460	428	428	367	409	333	336	329	226	60	3	10594
<b>TEXAS INSTRUMENTS, INCORPORATED</b>																
Patents By Year of Grant:	2430	288	376	400	370	481	529	603	607	611	599	689	800	717	765	10265
Patents By Year of Application:	3073	402	408	438	561	740	830	556	751	681	720	506	421	176	2	10265
<b>HEWLETT-PACKARD COMPANY</b>																
Patents By Year of Grant:	1087	221	328	352	351	438	492	523	554	827	880	968	1025	1113	424	9583
Patents By Year of Application:	1607	337	403	422	458	577	691	900	1033	971	917	690	536	41	0	9583

----- Organizational Patenting		(Granted: Jan 01, 1977 - Dec 31, 2003)										----- Ranked List of Organizations with 1000 or More Patents -----				
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
SHARP KABUSHIKI KAISHA (SHARP CORPORATION)																
Patents By Year of Grant:	2212	501	469	451	424	494	435	378	422	584	554	625	573	579	526	9227
Patents By Year of Application:	3143	442	468	487	442	426	536	587	619	645	469	513	342	102	6	9227
MICRON TECHNOLOGY, INC.																
Patents By Year of Grant:	12	34	77	114	173	106	63	125	319	592	942	1312	1646	1837	1710	9062
Patents By Year of Application:	65	109	143	175	76	96	392	698	1179	1457	1406	1509	1279	456	22	9062
ROBERT BOSCH GMBH																
Patents By Year of Grant:	3060	204	261	278	363	317	312	307	267	351	423	560	709	686	756	8854
Patents By Year of Application:	3410	285	332	374	305	338	312	389	491	516	735	638	568	160	1	8854
BASF AKTIENGESELLSCHAFT																
Patents By Year of Grant:	3294	397	385	398	360	320	304	319	276	399	414	510	487	476	393	8732
Patents By Year of Application:	3979	386	347	316	332	330	385	363	477	510	479	429	316	82	1	8732
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	3723	276	396	314	360	395	347	294	299	345	358	365	326	386	365	8549
Patents By Year of Application:	4439	371	331	368	368	315	342	334	372	353	274	295	265	118	4	8549
GENERAL MOTORS CORPORATION																
Patents By Year of Grant:	3992	383	441	402	441	334	282	298	277	306	276	254	177	190	291	8344
Patents By Year of Application:	4511	399	456	443	341	326	312	312	265	278	169	205	211	113	3	8344
HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)																
Patents By Year of Grant:	2560	403	259	209	260	247	254	302	353	416	487	493	612	720	703	8278
Patents By Year of Application:	3191	191	232	273	248	309	418	389	489	546	450	728	597	216	1	8278
MINNESOTA MINING AND MANUFACTURING COMPANY																
Patents By Year of Grant:	2815	335	376	411	435	540	598	573	591	592	351	52	15	11	7	7702
Patents By Year of Application:	3426	424	425	482	555	676	729	554	354	60	9	5	3	0	0	7702
INTEL CORPORATION																
Patents By Year of Grant:	258	45	57	73	125	206	271	423	405	708	744	806	818	1095	1600	7634
Patents By Year of Application:	347	75	113	211	324	455	614	839	986	988	1054	825	573	213	17	7634
WESTINGHOUSE ELECTRIC CORP.																
Patents By Year of Grant:	5371	438	356	370	306	262	196	136	74	82	12	4	0	1	0	7608
Patents By Year of Application:	6069	403	317	233	211	203	88	53	29	1	0	1	0	0	0	7608
DOW CHEMICAL COMPANY																
Patents By Year of Grant:	4281	401	333	323	330	270	230	197	165	174	142	134	169	118	42	7309
Patents By Year of Application:	4956	316	292	275	269	231	225	176	156	121	132	117	34	9	0	7309

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
LUCENT TECHNOLOGIES INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	300	816	948	1162	1426	1116	665	621	7054
Patents By Year of Application:	4	1	10	13	65	417	939	953	1266	1655	1219	396	96	20	0	7054
ADVANCED MICRO DEVICES, INC.																
Patents By Year of Grant:	380	83	83	71	85	86	129	179	271	557	824	1053	1086	1154	905	6946
Patents By Year of Application:	541	101	55	89	129	199	392	558	1112	986	924	1023	624	208	5	6946
RICOH COMPANY, LTD.																
Patents By Year of Grant:	1947	305	328	374	294	312	282	300	348	411	417	432	392	338	417	6897
Patents By Year of Application:	2514	391	313	324	313	344	378	420	447	417	389	305	262	77	3	6897
NISSAN MOTOR COMPANY, LIMITED																
Patents By Year of Grant:	3425	377	334	343	216	141	120	103	139	164	211	251	261	252	265	6602
Patents By Year of Application:	4053	320	286	161	111	120	154	179	203	252	220	239	221	82	1	6602
CIBA-GEIGY CORPORATION																
Patents By Year of Grant:	3890	410	417	319	332	302	277	273	239	17	4	3	0	2	0	6485
Patents By Year of Application:	4592	352	317	291	295	312	280	44	1	0	1	0	0	0	0	6485
PROCTER + GAMBLE COMPANY																
Patents By Year of Grant:	1415	136	166	190	173	220	233	354	434	503	632	546	489	501	490	6482
Patents By Year of Application:	1691	169	171	190	261	349	492	618	635	483	491	484	330	116	2	6482
HOECHST AKTIENGESELLSCHAFT																
Patents By Year of Grant:	3195	282	282	331	356	335	313	353	353	328	152	82	18	18	8	6406
Patents By Year of Application:	3768	283	297	369	331	372	496	226	203	39	13	4	4	1	0	6406
TOYOTA JIDOSHA K.K.																
Patents By Year of Grant:	3029	163	156	153	146	133	157	160	213	390	405	349	332	309	310	6405
Patents By Year of Application:	3274	163	141	155	158	165	212	398	498	337	309	264	248	77	6	6405
MOBIL OIL CORP.																
Patents By Year of Grant:	3476	358	368	301	292	295	204	167	91	67	72	71	52	14	5	5833
Patents By Year of Application:	4071	309	333	289	243	209	137	53	68	68	47	6	0	0	0	5833
OLYMPUS OPTICAL CO., LTD.																
Patents By Year of Grant:	2059	183	168	203	214	238	214	224	217	282	230	291	279	276	272	5350
Patents By Year of Application:	2358	210	236	229	280	255	266	240	249	274	270	254	176	50	3	5350
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	2935	170	201	168	184	203	191	155	170	166	142	148	165	149	131	5278
Patents By Year of Application:	3232	171	172	214	205	188	205	178	143	153	140	141	99	36	1	5278

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
MINOLTA CAMERA CO., LTD.																
Patents By Year of Grant:	1398	377	320	283	241	162	115	166	160	308	369	346	313	240	223	5021
Patents By Year of Application:	2036	291	270	188	141	184	196	289	434	388	286	205	97	16	0	5021
ALLIED-SIGNAL INC.																
Patents By Year of Grant:	2418	247	250	321	246	274	198	190	119	140	147	187	162	68	39	5006
Patents By Year of Application:	2868	277	311	263	219	174	157	160	158	172	191	32	18	6	0	5006
RCA CORPORATION																
Patents By Year of Grant:	4937	0	1	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
SHELL OIL COMPANY																
Patents By Year of Grant:	2411	268	273	278	234	238	173	139	129	148	136	135	129	81	100	4872
Patents By Year of Application:	2816	277	261	246	213	180	161	163	146	126	105	95	71	11	1	4872
PHILLIPS PETROLEUM COMPANY																
Patents By Year of Grant:	3212	132	158	171	195	149	101	91	76	75	72	113	89	82	48	4764
Patents By Year of Application:	3447	182	170	173	121	99	126	65	70	120	87	73	25	5	1	4764
NIKON CORPORATION																
Patents By Year of Grant:	875	79	87	109	136	122	231	433	495	599	371	301	303	251	311	4703
Patents By Year of Application:	999	89	142	127	175	401	640	522	518	286	300	296	155	50	3	4703
UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY																
Patents By Year of Grant:	2945	240	215	250	182	205	119	71	69	62	53	57	69	45	42	4624
Patents By Year of Application:	3358	229	227	178	166	78	69	67	56	55	48	52	29	12	0	4624
SEIKO EPSON CORPORATION																
Patents By Year of Grant:	160	60	122	160	188	166	162	200	239	327	316	422	530	648	797	4497
Patents By Year of Application:	352	165	165	186	199	232	316	326	379	477	538	523	465	170	4	4497
FORD MOTOR COMPANY																
Patents By Year of Grant:	1761	164	181	231	291	327	338	383	266	147	151	103	27	18	46	4434
Patents By Year of Application:	2025	215	251	307	401	360	347	157	145	113	44	44	11	13	1	4434
CATERPILLAR INC.																
Patents By Year of Grant:	1851	53	81	63	117	109	149	209	213	197	267	354	268	255	221	4407
Patents By Year of Application:	1928	90	93	120	140	209	230	264	265	320	299	251	163	33	2	4407
UNIVERSITY OF CALIFORNIA, THE REGENTS OF																
Patents By Year of Grant:	580	67	85	79	118	162	205	257	265	390	434	434	404	436	445	4361
Patents By Year of Application:	757	93	118	133	246	321	473	373	401	433	408	338	200	63	4	4361

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
UNITED TECHNOLOGIES CORPORATION																
Patents By Year of Grant:	2247	152	165	238	207	203	215	160	123	117	109	119	101	78	59	4293
Patents By Year of Application:	2577	180	229	219	200	208	141	111	116	118	91	41	50	11	1	4293
UNISYS CORPORATION																
Patents By Year of Grant:	2827	83	99	87	51	80	112	134	109	122	91	98	107	119	99	4218
Patents By Year of Application:	3029	69	63	74	117	134	136	120	129	140	114	54	30	9	0	4218
MERCK + CO., INC.																
Patents By Year of Grant:	1759	134	152	164	223	165	126	127	163	179	217	188	185	175	132	4089
Patents By Year of Application:	1987	163	203	232	131	164	163	145	228	207	179	157	107	22	1	4089
HUGHES AIRCRAFT COMPANY																
Patents By Year of Grant:	1639	252	350	296	329	412	326	273	130	50	6	1	0	0	0	4064
Patents By Year of Application:	2173	309	349	413	344	257	168	48	3	0	0	0	0	0	0	4064
EXXON RESEARCH + ENGINEERING CO.																
Patents By Year of Grant:	2795	129	136	111	109	127	90	72	74	106	122	101	73	10	1	4056
Patents By Year of Application:	3012	129	119	105	111	89	99	81	120	118	64	8	1	0	0	4056
BOEING COMPANY																
Patents By Year of Grant:	1656	193	197	184	106	80	98	99	114	157	147	138	163	200	268	3800
Patents By Year of Application:	2070	162	131	88	97	69	212	149	117	139	124	154	208	79	1	3800
KONICA CORPORATION																
Patents By Year of Grant:	1218	212	229	210	230	233	179	160	128	170	166	157	155	182	157	3786
Patents By Year of Application:	1552	265	224	201	188	191	165	164	182	187	156	155	111	44	1	3786
GOODYEAR TIRE + RUBBER COMPANY																
Patents By Year of Grant:	1331	112	115	103	129	150	109	113	235	206	153	181	229	282	260	3708
Patents By Year of Application:	1529	121	108	133	97	133	158	214	219	174	203	273	229	98	19	3708
SUN MICROSYSTEMS, INC.																
Patents By Year of Grant:	17	16	24	57	72	73	70	113	162	440	578	480	444	508	584	3638
Patents By Year of Application:	69	60	58	83	71	120	318	615	679	479	469	297	241	78	1	3638
SANYO ELECTRIC CO., LTD.																
Patents By Year of Grant:	636	121	146	126	126	128	124	134	175	270	254	271	300	386	382	3579
Patents By Year of Application:	866	143	119	108	149	171	180	285	288	321	287	343	241	76	2	3579
EATON CORPORATION																
Patents By Year of Grant:	1345	143	115	141	135	149	166	182	145	165	222	196	149	159	139	3551
Patents By Year of Application:	1544	134	135	156	185	188	144	176	186	196	174	182	107	42	2	3551

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
TELEFONAKTIEBOLAGET LM ERICSSON																
Patents By Year of Grant:	373	25	29	36	46	66	81	153	116	224	385	491	522	523	473	3543
Patents By Year of Application:	414	52	56	58	98	139	224	269	603	644	529	331	117	9	0	3543
HONEYWELL INC.																
Patents By Year of Grant:	1749	169	171	138	145	171	185	129	103	139	144	129	48	26	21	3467
Patents By Year of Application:	2056	152	159	160	188	143	116	146	161	112	60	8	3	3	0	3467
IMPERIAL CHEMICAL INDUSTRIES PLC																
Patents By Year of Grant:	2093	182	183	192	233	131	94	68	61	63	45	41	39	25	17	3467
Patents By Year of Application:	2484	159	197	170	92	75	86	62	41	34	38	17	7	5	0	3467
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	1925	114	149	145	139	138	86	104	94	84	91	84	106	76	68	3403
Patents By Year of Application:	2171	154	135	131	112	101	106	94	83	90	84	70	52	20	0	3403
AMERICAN CYANAMID COMPANY																
Patents By Year of Grant:	1999	144	107	133	136	149	106	108	108	114	112	66	69	32	10	3393
Patents By Year of Application:	2232	138	126	138	148	117	184	52	81	61	71	39	6	0	0	3393
SUMITOMO CHEMICAL COMPANY, LIMITED																
Patents By Year of Grant:	1326	114	146	133	147	164	139	138	123	149	136	149	168	187	174	3393
Patents By Year of Application:	1573	121	136	159	149	188	158	143	150	132	165	150	128	39	2	3393
ASAHI KOGAKU KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	581	107	155	178	227	217	156	182	165	277	307	260	252	259	18	3341
Patents By Year of Application:	803	198	218	219	161	207	196	241	308	263	258	178	84	7	0	3341
ROCKWELL INTERNATIONAL CORPORATION																
Patents By Year of Grant:	2117	115	154	126	137	151	117	122	75	77	68	11	6	1	1	3278
Patents By Year of Application:	2377	128	147	139	133	115	121	61	45	8	3	0	1	0	0	3278
MURATA MANUFACTURING CO., LTD.																
Patents By Year of Grant:	418	69	91	84	66	103	118	151	150	217	268	302	321	444	446	3248
Patents By Year of Application:	547	81	70	97	120	170	169	242	292	280	355	416	315	92	2	3248
YAZAKI CORP.																
Patents By Year of Grant:	142	124	132	164	130	119	115	180	242	291	307	305	336	315	313	3215
Patents By Year of Application:	386	96	144	118	142	195	221	326	319	302	283	346	249	87	1	3215
SUMITOMO ELECTRIC INDUSTRIES CO., LTD.																
Patents By Year of Grant:	707	126	132	180	233	233	233	210	172	159	162	136	156	171	184	3194
Patents By Year of Application:	947	147	204	271	208	263	249	146	162	135	139	159	129	35	0	3194



---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
UOP																
Patents By Year of Grant:	1720	120	99	103	115	103	109	97	60	88	107	104	84	95	67	3071
Patents By Year of Application:	1903	99	98	124	95	128	83	79	92	111	121	83	43	12	0	3071
ELI LILLY AND COMPANY																
Patents By Year of Grant:	1228	74	66	63	79	79	148	245	223	182	190	162	115	123	91	3068
Patents By Year of Application:	1358	68	65	100	160	157	381	112	218	159	112	89	63	23	3	3068
NIPPONDENSO CO., LTD.																
Patents By Year of Grant:	1234	76	76	86	123	165	189	311	313	309	100	34	19	6	1	3042
Patents By Year of Application:	1372	75	108	164	212	267	390	365	57	18	8	5	1	0	0	3042
MONSANTO COMPANY, INC.																
Patents By Year of Grant:	1931	85	129	129	104	77	75	82	99	77	83	78	63	11	11	3034
Patents By Year of Application:	2147	115	96	89	87	83	119	76	92	55	54	16	5	0	0	3034
BROTHER KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	485	181	263	217	167	156	123	137	157	217	265	233	189	115	105	3010
Patents By Year of Application:	801	273	183	175	133	170	171	262	264	294	132	74	54	24	0	3010
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																
Patents By Year of Grant:	1356	128	151	151	166	160	122	104	97	95	93	97	92	84	80	2976
Patents By Year of Application:	1583	138	170	159	167	125	110	99	94	99	69	87	53	22	1	2976
MICROSOFT CORPORATION																
Patents By Year of Grant:	5	3	2	8	18	26	53	104	206	343	356	359	455	511	519	2968
Patents By Year of Application:	20	12	10	70	70	161	274	382	496	583	507	258	84	38	3	2968
TEXACO INC.																
Patents By Year of Grant:	1982	115	100	107	111	88	107	65	25	34	35	43	25	22	19	2878
Patents By Year of Application:	2156	113	112	102	95	86	46	31	32	48	23	15	16	3	0	2878
L'OREAL S.A.																
Patents By Year of Grant:	584	86	86	78	86	76	79	126	169	191	262	251	275	287	219	2855
Patents By Year of Application:	755	71	81	75	83	142	222	225	270	206	298	268	140	19	0	2855
PIONEER ELECTRONIC CORPORATION																
Patents By Year of Grant:	883	154	180	235	220	174	148	101	110	141	140	132	120	64	36	2838
Patents By Year of Application:	1191	231	207	192	149	124	114	152	171	151	122	16	15	3	0	2838
FUJI XEROX CO., LTD.																
Patents By Year of Grant:	459	58	73	116	137	159	182	173	197	283	259	199	170	187	175	2827
Patents By Year of Application:	585	137	128	160	183	165	249	312	278	179	177	148	104	21	1	2827

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
APPLIED MATERIALS, INC.																
Patents By Year of Grant:	40	15	16	38	52	56	68	97	93	178	266	390	442	503	537	2791
Patents By Year of Application:	64	31	55	55	82	109	172	276	362	354	411	507	242	69	2	2791
CORNING INCORPORATED																
Patents By Year of Grant:	1097	83	60	82	102	108	74	88	78	72	103	112	215	250	259	2783
Patents By Year of Application:	1219	74	92	109	98	107	95	55	106	125	261	237	159	46	0	2783
NATIONAL SEMICONDUCTOR CORPORATION																
Patents By Year of Grant:	511	59	95	103	119	149	186	202	188	178	197	188	183	208	217	2783
Patents By Year of Application:	634	110	111	157	157	218	259	167	174	227	184	172	146	67	0	2783
TRW INC.																
Patents By Year of Grant:	857	52	40	50	82	104	96	98	101	144	200	275	309	227	134	2769
Patents By Year of Application:	950	43	85	112	90	83	132	177	221	268	283	210	106	9	0	2769
OKI ELECTRIC INDUSTRY CO., LTD.																
Patents By Year of Grant:	459	95	109	125	129	106	91	81	72	130	202	224	298	326	294	2741
Patents By Year of Application:	640	107	156	97	90	97	114	109	253	300	251	273	170	83	1	2741
UNION CARBIDE CORPORATION																
Patents By Year of Grant:	2650	43	8	0	0	0	0	0	0	0	0	0	0	2	0	2703
Patents By Year of Application:	2701	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2703
AISIN SEIKI KABUSHIKI KAISHA																
Patents By Year of Grant:	1167	133	162	131	94	71	62	91	74	116	137	110	110	131	109	2698
Patents By Year of Application:	1390	156	112	80	72	84	89	119	129	124	119	86	114	24	0	2698
AMP INCORPORATED																
Patents By Year of Grant:	1803	226	267	236	132	3	0	1	0	0	0	0	0	0	0	2668
Patents By Year of Application:	2113	229	213	112	0	1	0	0	0	0	0	0	0	0	0	2668
PPG INDUSTRIES INC.																
Patents By Year of Grant:	1917	100	94	70	84	61	53	52	74	97	44	0	0	0	0	2646
Patents By Year of Application:	2093	87	82	48	67	66	78	71	53	1	0	0	0	0	0	2646
ABBOTT LABORATORIES																
Patents By Year of Grant:	709	70	87	138	140	149	119	191	200	175	159	135	129	115	115	2631
Patents By Year of Application:	890	97	143	138	140	165	302	174	160	126	124	90	63	18	1	2631
PFIZER INC.																
Patents By Year of Grant:	996	84	91	81	67	77	76	83	102	120	119	165	176	187	196	2620
Patents By Year of Application:	1139	98	70	89	83	118	112	75	133	107	224	193	134	44	1	2620

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
THOMSON-CSF																
Patents By Year of Grant:	1579	114	138	107	90	84	90	52	52	66	67	47	46	46	21	2599
Patents By Year of Application:	1806	120	100	94	74	70	72	55	63	55	37	36	17	0	0	2599
DAIMLER-BENZ AKTIENGESELLSCHAFT																
Patents By Year of Grant:	1066	109	110	104	125	96	108	144	172	279	218	38	18	2	1	2590
Patents By Year of Application:	1236	106	110	113	110	158	183	228	237	105	3	0	1	0	0	2590
HOFFMANN-LA ROCHE INC.																
Patents By Year of Grant:	1444	78	78	73	88	89	104	106	79	72	70	62	77	73	84	2577
Patents By Year of Application:	1612	80	61	93	89	119	97	58	65	57	64	77	71	30	4	2577
AMOCO CORPORATION																
Patents By Year of Grant:	1525	193	158	187	147	88	58	67	56	67	16	0	0	0	0	2562
Patents By Year of Application:	1871	174	155	90	71	65	71	42	22	1	0	0	0	0	0	2562
TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.																
Patents By Year of Grant:	1	0	4	5	8	12	25	74	130	220	290	385	529	448	431	2562
Patents By Year of Application:	1	6	9	9	13	32	107	250	311	381	573	328	342	196	4	2562
ALPS ELECTRIC CO., LTD.																
Patents By Year of Grant:	856	92	86	80	48	36	44	42	82	99	154	194	264	211	253	2541
Patents By Year of Application:	1004	72	62	46	41	53	81	115	180	196	245	236	170	37	3	2541
NCR CORPORATION																
Patents By Year of Grant:	878	95	103	89	101	95	54	39	83	176	192	143	140	164	168	2520
Patents By Year of Application:	1071	104	116	95	67	48	119	177	229	159	158	109	57	10	1	2520
UNITED MICROELECTRONICS CORPORATION																
Patents By Year of Grant:	0	1	0	5	10	48	150	170	149	174	266	430	584	278	188	2453
Patents By Year of Application:	1	4	5	8	71	224	188	205	226	520	482	270	195	53	1	2453
DEERE + COMPANY																
Patents By Year of Grant:	1087	96	95	73	90	64	72	65	59	71	99	82	146	145	178	2422
Patents By Year of Application:	1215	90	81	84	72	66	71	66	88	86	133	157	154	55	4	2422
COLGATE-PALMOLIVE COMPANY																
Patents By Year of Grant:	833	71	82	67	84	80	84	84	95	141	164	137	128	181	157	2388
Patents By Year of Application:	980	80	93	58	75	93	87	139	141	104	123	125	141	127	22	2388
LSI LOGIC CORPORATION																
Patents By Year of Grant:	18	5	10	20	39	45	78	127	168	229	339	325	289	308	375	2375
Patents By Year of Application:	33	21	27	59	91	114	231	307	395	370	205	211	236	75	0	2375

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
MASSACHUSETTS INSTITUTE OF TECHNOLOGY																
Patents By Year of Grant:	705	109	101	126	112	100	105	119	102	139	145	114	128	136	127	2368
Patents By Year of Application:	957	111	109	98	115	149	140	118	125	145	136	102	50	13	0	2368
RAYTHEON COMPANY																
Patents By Year of Grant:	838	80	85	86	72	52	45	10	20	117	219	205	182	158	184	2353
Patents By Year of Application:	1053	66	93	47	57	30	53	143	237	142	133	133	113	53	0	2353
HYUNDAI ELECTRONICS INDUSTRIES CO., LTD.																
Patents By Year of Grant:	4	1	14	19	24	54	79	138	154	212	244	298	539	392	180	2352
Patents By Year of Application:	12	22	30	31	71	127	173	257	302	329	451	390	134	23	0	2352
MAZDA MOTOR CORPORATION																
Patents By Year of Grant:	820	142	204	204	180	135	109	59	62	66	60	91	73	53	58	2316
Patents By Year of Application:	1067	213	215	147	132	108	54	62	61	75	52	65	41	24	0	2316
3M INNOVATIVE PROPERTIES COMPANY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	181	476	463	567	608	2295
Patents By Year of Application:	1	2	2	8	9	13	35	78	292	438	457	489	360	98	13	2295
DIGITAL EQUIPMENT CORPORATION																
Patents By Year of Grant:	326	136	149	227	281	276	190	167	133	169	133	93	15	0	0	2295
Patents By Year of Application:	703	205	235	268	211	173	152	154	139	50	5	0	0	0	0	2295
KONINKLIJKE PHILIPS ELECTRONICS N.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	12	860	1423	2295
Patents By Year of Application:	0	1	0	1	1	1	9	19	26	116	410	672	792	232	15	2295
DENSO CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	7	124	307	371	437	482	552	2280
Patents By Year of Application:	0	0	0	0	1	1	5	115	345	386	428	400	428	162	9	2280
HON HAI PRECISION IND. CO., LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	1	13	26	50	176	523	496	509	484	2278
Patents By Year of Application:	0	0	0	0	0	12	33	35	106	263	613	368	538	301	9	2278
NORTHERN TELECOM LIMITED																
Patents By Year of Grant:	1044	87	82	73	75	90	83	106	68	209	249	72	19	11	2	2270
Patents By Year of Application:	1185	81	73	67	117	93	110	253	226	62	3	0	0	0	0	2270
BRIDGESTONE CORPORATION																
Patents By Year of Grant:	745	89	96	97	126	109	95	85	85	94	112	108	163	143	112	2259
Patents By Year of Application:	923	100	114	119	77	89	113	109	128	149	129	127	63	19	0	2259

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
GTE PRODUCTS CORPORATION																
Patents By Year of Grant:	1709	128	155	94	86	41	8	2	0	3	1	2	0	0	0	2229
Patents By Year of Application:	1930	114	108	68	7	2	0	0	0	0	0	0	0	0	0	2229
WARNER-LAMBERT COMPANY																
Patents By Year of Grant:	937	114	125	103	86	85	85	69	91	67	85	95	85	80	74	2181
Patents By Year of Application:	1140	119	83	74	90	101	108	47	72	103	92	66	56	29	1	2181
MEDTRONIC INC.																
Patents By Year of Grant:	348	32	32	70	65	114	93	79	92	243	208	233	188	173	195	2165
Patents By Year of Application:	411	57	63	90	120	96	121	203	247	231	226	185	99	16	0	2165
YAMAHA CORPORATION																
Patents By Year of Grant:	95	112	121	120	157	136	140	162	151	208	224	149	124	133	126	2158
Patents By Year of Application:	340	156	117	134	148	144	180	211	216	151	121	117	88	35	0	2158
FMC CORPORATION																
Patents By Year of Grant:	1193	79	81	77	82	71	54	70	72	99	81	75	52	47	17	2150
Patents By Year of Application:	1334	73	97	58	73	72	75	92	95	69	48	51	12	1	0	2150
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN																
Patents By Year of Grant:	55	28	51	56	106	120	145	112	156	220	210	199	221	218	207	2104
Patents By Year of Application:	111	60	92	117	143	125	190	196	227	210	250	194	137	52	0	2104
SHIN ETSU CHEMICAL CO., LTD.																
Patents By Year of Grant:	384	64	114	134	166	161	142	134	97	96	97	111	128	134	136	2098
Patents By Year of Application:	520	145	123	158	144	163	141	102	91	116	107	153	117	18	0	2098
DOW CORNING CORPORATION																
Patents By Year of Grant:	698	124	136	144	93	133	107	108	89	108	106	76	58	51	47	2078
Patents By Year of Application:	903	140	114	108	127	127	110	111	88	88	63	43	40	15	1	2078
CHRYSLER MOTORS CORPORATION																
Patents By Year of Grant:	482	120	93	52	75	130	130	189	147	188	240	156	35	6	0	2043
Patents By Year of Application:	631	90	59	111	138	181	183	215	218	197	15	5	0	0	0	2043
COMPAQ COMPUTER CORPORATION, INC.																
Patents By Year of Grant:	17	21	30	63	71	77	121	118	132	250	267	321	365	166	24	2043
Patents By Year of Application:	84	50	81	90	122	133	161	330	373	407	131	68	12	1	0	2043
POLAROID CORPORATION																
Patents By Year of Grant:	1408	56	40	39	42	40	56	62	63	64	55	36	28	14	28	2031
Patents By Year of Application:	1498	33	52	30	48	76	70	68	59	30	15	35	9	8	0	2031

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
AIR PRODUCTS AND CHEMICALS, INC.																
Patents By Year of Grant:	727	100	119	91	110	125	73	78	72	80	86	104	84	74	98	2021
Patents By Year of Application:	890	103	102	125	92	91	81	76	87	97	99	70	69	37	2	2021
HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN(HENKEL KGAA)																
Patents By Year of Grant:	815	122	85	50	69	101	100	108	73	88	86	70	104	76	69	2016
Patents By Year of Application:	1032	38	59	93	91	123	93	113	86	77	101	64	35	10	1	2016
PITNEY-BOWES, INC.																
Patents By Year of Grant:	762	87	75	102	92	82	98	73	85	124	98	83	81	83	91	2016
Patents By Year of Application:	921	98	93	87	96	124	104	115	101	72	106	40	48	11	0	2016
CHEVRON RESEARCH & TECHNOLOGY CO.																
Patents By Year of Grant:	1609	59	77	85	74	64	24	5	5	0	2	0	2	0	0	2006
Patents By Year of Application:	1718	101	65	72	36	10	2	1	0	0	0	1	0	0	0	2006
INSTITUT FRANCAIS DU PETROLE																
Patents By Year of Grant:	604	72	82	56	71	89	73	69	86	142	102	160	154	118	109	1987
Patents By Year of Application:	740	68	64	84	87	76	114	119	146	144	145	131	57	12	0	1987
UPJOHN COMPANY																
Patents By Year of Grant:	1768	29	23	31	30	24	24	33	21	1	1	0	1	0	0	1986
Patents By Year of Application:	1820	24	32	29	30	26	23	2	0	0	0	0	0	0	0	1986
VICTOR COMPANY OF JAPAN, LIMITED																
Patents By Year of Grant:	1004	54	91	82	79	68	51	62	64	77	79	82	63	62	65	1983
Patents By Year of Application:	1128	98	73	74	53	64	72	94	89	92	58	33	44	10	1	1983
COMMISSARIAT A L'ENERGIE ATOMIQUE																
Patents By Year of Grant:	999	72	49	70	52	62	40	69	79	88	81	62	83	86	82	1974
Patents By Year of Application:	1110	62	61	55	51	71	85	94	93	62	92	69	53	16	0	1974
LG ELECTRONICS INC.																
Patents By Year of Grant:	0	0	0	0	0	0	1	21	119	227	244	234	290	381	441	1958
Patents By Year of Application:	0	0	0	1	2	1	172	233	311	302	290	296	260	85	5	1958
HOECHST CELANESE CORPORATION																
Patents By Year of Grant:	954	190	128	134	114	93	78	72	75	69	25	10	3	0	0	1945
Patents By Year of Application:	1234	137	120	100	78	79	92	61	39	3	2	0	0	0	0	1945
BAXTER INTERNATIONAL INC.																
Patents By Year of Grant:	886	69	78	63	68	79	62	74	68	99	102	78	79	56	71	1932
Patents By Year of Application:	1035	61	64	73	91	89	107	84	98	83	61	44	30	12	0	1932

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
BECTON, DICKINSON AND COMPANY																
Patents By Year of Grant:	484	56	65	58	58	87	72	100	155	164	137	126	128	99	121	1910
Patents By Year of Application:	588	65	53	74	108	112	137	156	159	107	131	93	84	41	2	1910
ILLINOIS TOOL WORKS INC.																
Patents By Year of Grant:	498	44	47	53	76	36	60	72	93	125	99	143	184	154	215	1899
Patents By Year of Application:	558	60	53	63	53	83	101	106	112	138	169	188	158	54	3	1899
TDK CORPORATION																
Patents By Year of Grant:	315	50	51	58	60	62	67	81	76	83	104	163	217	258	233	1878
Patents By Year of Application:	423	56	42	65	71	90	85	75	109	200	247	242	148	23	2	1878
ROHM AND HAAS COMPANY																
Patents By Year of Grant:	701	32	49	65	118	131	117	97	63	71	86	78	95	76	83	1862
Patents By Year of Application:	782	74	100	111	124	103	102	59	79	83	90	81	54	20	0	1862
SEMICONDUCTOR ENERGY LABORATORY CO., LTD.																
Patents By Year of Grant:	137	54	58	54	70	58	43	90	98	127	185	155	210	246	275	1860
Patents By Year of Application:	248	60	67	71	62	118	161	166	213	165	193	166	126	44	0	1860
W. R. GRACE & CO.-CONN.																
Patents By Year of Grant:	830	107	122	132	123	116	87	86	74	56	28	16	30	28	23	1858
Patents By Year of Application:	1045	114	135	102	112	71	117	43	33	20	18	23	20	5	0	1858
HARRIS CORP.																
Patents By Year of Grant:	673	74	60	60	62	69	71	93	118	126	123	70	94	82	71	1846
Patents By Year of Application:	794	61	73	84	54	114	122	131	98	98	82	71	56	8	0	1846
NGK INSULATORS LTD.																
Patents By Year of Grant:	418	84	79	92	111	73	65	67	81	92	123	115	132	162	148	1842
Patents By Year of Application:	563	88	97	95	69	74	102	100	136	136	136	129	90	26	1	1842
FORD GLOBAL TECHNOLOGIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	86	315	259	260	364	397	151	1832
Patents By Year of Application:	0	0	0	3	11	21	75	239	293	265	278	411	186	50	0	1832
BLACK & DECKER INC.																
Patents By Year of Grant:	462	40	57	49	37	46	66	112	126	141	118	122	158	135	151	1820
Patents By Year of Application:	556	40	33	37	55	78	159	129	153	110	137	118	137	75	3	1820
TEKTRONIX INC.																
Patents By Year of Grant:	870	91	80	67	60	43	63	72	57	73	105	60	57	61	55	1814
Patents By Year of Application:	1026	68	65	61	55	63	83	58	102	110	30	54	32	7	0	1814

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
NORTEL NETWORKS CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	94	396	465	420	435	1810
Patents By Year of Application:	0	0	0	0	0	1	7	72	435	595	449	185	57	9	0	1810
BRISTOL-MYERS SQUIBB COMPANY																
Patents By Year of Grant:	524	62	71	61	54	59	73	76	109	125	138	110	104	102	136	1804
Patents By Year of Application:	625	87	47	65	104	102	119	112	108	106	111	91	92	35	0	1804
OLIN CORPORATION																
Patents By Year of Grant:	1153	76	106	118	73	74	47	57	28	23	17	17	4	5	4	1802
Patents By Year of Application:	1293	123	83	73	64	53	44	18	22	14	8	5	2	0	0	1802
CASIO COMPUTER CO. LTD.																
Patents By Year of Grant:	454	90	143	111	87	114	115	126	86	125	86	86	73	64	38	1798
Patents By Year of Application:	688	110	86	134	87	120	118	103	141	92	46	52	17	4	0	1798
UNITED STATES OF AMERICA, HEALTH & HUMAN SERVICES																
Patents By Year of Grant:	366	38	50	76	85	108	97	117	150	169	139	97	103	91	87	1773
Patents By Year of Application:	511	84	98	130	127	186	212	72	103	68	73	65	38	5	1	1773
KIMBERLY-CLARK WORLDWIDE, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	100	173	188	272	338	284	417	1772
Patents By Year of Application:	0	0	1	0	8	28	122	187	283	198	327	365	203	50	0	1772
ATLANTIC RICHFIELD COMPANY																
Patents By Year of Grant:	1178	66	62	59	67	70	61	38	29	34	42	36	19	3	1	1765
Patents By Year of Application:	1283	66	61	67	71	46	46	31	31	36	21	5	1	0	0	1765
ITT CORPORATION																
Patents By Year of Grant:	1210	57	63	64	61	81	85	69	36	24	11	2	0	0	0	1763
Patents By Year of Application:	1305	67	71	71	91	75	63	14	5	1	0	0	0	0	0	1763
LUCAS INDUSTRIES PUBLIC LTD. COMPANY																
Patents By Year of Grant:	1012	72	74	40	40	33	48	52	54	58	50	45	67	44	26	1715
Patents By Year of Application:	1123	60	44	35	39	58	61	58	53	55	55	44	24	6	0	1715
TAKEDA CHEMICAL INDUSTRIES LTD.																
Patents By Year of Grant:	668	87	50	66	93	68	70	99	77	73	80	71	102	64	46	1714
Patents By Year of Application:	829	61	76	72	86	93	101	85	70	47	90	60	29	15	0	1714
APPLE COMPUTER, INC.																
Patents By Year of Grant:	60	24	33	47	69	66	124	185	230	261	181	126	107	96	100	1709
Patents By Year of Application:	114	53	65	112	158	202	344	220	133	111	86	42	43	26	0	1709



---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
DELPHI TECHNOLOGIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	94	327	644	638	1705
Patents By Year of Application:	0	0	0	0	0	0	0	3	4	43	363	583	547	160	2	1705
WHITAKER CORPORATION																
Patents By Year of Grant:	0	0	0	0	61	195	201	212	198	222	231	258	79	39	8	1704
Patents By Year of Application:	0	3	11	115	233	246	221	243	278	230	101	20	3	0	0	1704
SCHLUMBERGER TECHNOLOGY CORPORATION																
Patents By Year of Grant:	465	63	58	50	57	66	50	56	48	46	80	122	161	178	196	1696
Patents By Year of Application:	559	70	61	53	55	66	56	63	100	126	130	198	116	40	3	1696
ERICSSON, INC.																
Patents By Year of Grant:	5	0	0	0	0	0	4	29	70	211	297	332	272	254	181	1655
Patents By Year of Application:	5	0	2	3	9	38	97	338	364	365	301	91	37	5	0	1655
AGFA-GEVAERT N.V.																
Patents By Year of Grant:	334	19	40	36	54	67	95	104	114	141	127	174	140	104	81	1630
Patents By Year of Application:	373	45	53	50	82	116	136	170	132	164	129	100	58	21	1	1630
NIPPON STEEL CORP.																
Patents By Year of Grant:	635	57	63	75	80	79	85	72	89	94	67	56	51	62	59	1624
Patents By Year of Application:	714	96	90	77	79	81	101	101	83	51	53	46	40	12	0	1624
DAIMLER-CHRYSLER AKTIENGESELLSCHAFT																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	89	387	485	362	293	1616
Patents By Year of Application:	1	0	0	0	1	2	5	22	125	274	494	359	238	91	4	1616
YAMAHA HATSUDOKI KABUSHIKI KAISHA, YAMAHA MOTOR CO., LTD.																
Patents By Year of Grant:	436	70	81	90	86	55	57	73	76	131	102	104	94	74	62	1591
Patents By Year of Application:	560	91	77	86	61	87	86	127	125	97	85	63	32	12	2	1591
HEIDELBERGER DRUCKMASCHINEN AG																
Patents By Year of Grant:	196	24	64	62	47	64	97	88	88	129	96	122	94	158	248	1577
Patents By Year of Application:	264	66	39	55	105	94	119	117	108	137	138	174	139	22	0	1577
TOKYO ELECTRON LIMITED																
Patents By Year of Grant:	11	18	25	35	47	73	77	91	90	101	176	193	204	238	191	1570
Patents By Year of Application:	41	34	51	46	103	107	94	116	190	204	165	238	147	29	5	1570
AGENCY OF INDUSTRIAL SCIENCE & TECHNOLOGY																
Patents By Year of Grant:	632	92	97	72	62	49	57	57	73	71	57	71	65	55	53	1563
Patents By Year of Application:	796	75	66	50	51	69	78	78	72	55	61	99	6	7	0	1563

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
CARRIER CORPORATION																
Patents By Year of Grant:	581	51	75	61	55	64	67	51	41	69	66	109	98	84	90	1562
Patents By Year of Application:	669	67	63	54	66	68	57	71	66	105	72	87	76	40	1	1562
NOKIA MOBILE PHONES LTD.																
Patents By Year of Grant:	0	0	10	21	34	60	66	45	52	138	204	219	235	265	204	1553
Patents By Year of Application:	0	34	30	65	49	65	83	184	265	243	241	187	104	3	0	1553
FANUC LTD.																
Patents By Year of Grant:	483	125	129	125	102	87	70	73	51	71	51	47	53	38	27	1532
Patents By Year of Application:	724	125	103	84	64	87	91	36	69	59	49	23	15	3	0	1532
AMERICAN HOME PRODUCTS CORPORATION																
Patents By Year of Grant:	741	68	48	56	68	31	60	96	34	50	47	48	85	82	3	1517
Patents By Year of Application:	830	45	62	60	47	72	96	39	37	44	75	93	14	3	0	1517
LEVER BROTHERS COMPANY, DIVISION OF CONOPCO, INC.																
Patents By Year of Grant:	758	67	62	63	54	67	76	81	57	68	72	47	30	10	2	1514
Patents By Year of Application:	882	62	64	45	78	59	97	82	73	50	14	8	0	0	0	1514
SUMITOMO WIRING SYSTEMS, LTD., CO.																
Patents By Year of Grant:	6	12	31	48	30	63	116	133	122	132	143	154	152	192	167	1501
Patents By Year of Application:	78	8	28	46	88	196	136	118	155	116	136	161	164	66	5	1501
FUJI ELECTRIC CO., LTD.																
Patents By Year of Grant:	330	70	67	70	64	77	100	124	95	92	110	72	53	57	76	1457
Patents By Year of Application:	447	62	79	74	102	125	120	90	92	71	48	71	56	20	0	1457
HALLIBURTON CO.																
Patents By Year of Grant:	800	53	60	61	74	162	88	94	39	25	1	0	0	0	0	1457
Patents By Year of Application:	887	50	76	131	131	82	65	28	7	0	0	0	0	0	0	1457
AGFA-GEVAERT, AG																
Patents By Year of Grant:	997	52	53	33	36	40	39	20	39	50	54	13	6	14	6	1452
Patents By Year of Application:	1081	36	35	42	35	39	49	40	51	20	12	8	3	1	0	1452
E. R. SQUIBB + SONS, INC.																
Patents By Year of Grant:	1007	63	53	71	70	44	27	28	29	19	11	4	2	2	3	1433
Patents By Year of Application:	1125	64	76	59	33	22	33	11	7	2	1	0	0	0	0	1433
KAO KABUSHIKI KAISHA (KAO CORPORATION)																
Patents By Year of Grant:	214	53	76	88	69	78	82	70	109	131	98	84	94	94	92	1432
Patents By Year of Application:	332	72	94	80	67	92	113	126	111	111	61	85	75	13	0	1432

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
ASAHI KASEI KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	721	38	33	35	57	54	35	29	30	50	61	69	66	79	62	1419
Patents By Year of Application:	804	34	52	41	33	43	30	46	79	64	55	74	44	20	0	1419
B. F. GOODRICH CO.																
Patents By Year of Grant:	891	57	73	69	59	47	30	33	17	29	28	24	39	17	5	1418
Patents By Year of Application:	1031	52	43	60	39	33	32	22	36	23	29	15	2	1	0	1418
EXXON CHEMICALS PATENTS INC.																
Patents By Year of Grant:	137	74	116	93	115	113	124	103	115	119	112	111	69	6	6	1413
Patents By Year of Application:	308	121	82	96	137	108	173	98	165	84	37	4	0	0	0	1413
OWENS-CORNING FIBERGLAS CORPORATION																
Patents By Year of Grant:	895	17	15	15	14	20	11	35	65	68	67	55	44	49	38	1408
Patents By Year of Application:	925	17	13	14	17	39	67	80	67	56	46	39	20	8	0	1408
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	635	49	47	55	54	38	49	41	49	75	71	55	67	51	63	1399
Patents By Year of Application:	733	58	58	39	49	51	67	74	65	51	47	53	42	12	0	1399
NIKE, INC.																
Patents By Year of Grant:	23	25	57	109	122	111	57	42	173	220	123	101	65	86	82	1396
Patents By Year of Application:	42	95	110	111	83	61	73	171	163	126	92	98	63	95	13	1396
SUNDSTRAND CORPORATION																
Patents By Year of Grant:	589	158	196	120	66	57	31	45	29	45	35	8	2	0	0	1381
Patents By Year of Application:	933	130	70	50	52	38	28	41	29	10	0	0	0	0	0	1381
ALCOA INC.																
Patents By Year of Grant:	676	60	67	52	64	58	51	53	33	57	48	35	41	38	42	1375
Patents By Year of Application:	800	54	61	51	57	55	51	52	47	35	30	43	32	7	0	1375
MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG																
Patents By Year of Grant:	388	35	34	51	78	59	65	54	63	99	56	75	79	107	129	1372
Patents By Year of Application:	488	44	66	57	59	69	86	91	58	66	81	103	81	23	0	1372
UNIVERSITY OF TEXAS																
Patents By Year of Grant:	167	56	84	73	86	97	89	87	81	96	91	89	89	91	94	1370
Patents By Year of Application:	342	75	78	102	105	110	123	67	91	78	81	72	39	7	0	1370
BAKER HUGHES INCORPORATED																
Patents By Year of Grant:	39	53	43	57	70	83	68	70	79	98	108	134	160	141	162	1365
Patents By Year of Application:	105	59	71	82	69	80	111	87	147	135	132	142	110	35	0	1365

----- Organizational Patenting		(Granted: Jan 01, 1977 - Dec 31, 2003)										----- Ranked List of Organizations with 1000 or More Patents -----				
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
INFINEON TECHNOLOGIES AG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	42	219	453	642	1356
Patents By Year of Application:	0	0	0	0	0	0	1	5	8	82	156	372	510	219	3	1356
MITA INDUSTRIAL COMPANY LTD.																
Patents By Year of Grant:	337	60	89	105	128	95	89	94	73	169	81	32	3	0	0	1355
Patents By Year of Application:	467	118	98	113	104	81	104	101	111	42	15	1	0	0	0	1355
ROHM COMPANY LIMITED																
Patents By Year of Grant:	6	9	21	15	55	158	152	102	96	112	95	116	132	150	128	1347
Patents By Year of Application:	26	17	35	181	134	141	108	103	115	115	122	132	85	31	2	1347
HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1346	1346
Patents By Year of Application:	0	0	0	0	0	0	1	2	11	43	148	324	519	286	12	1346
NIPPON TELEGRAPH & TELEPHONE CORP.																
Patents By Year of Grant:	518	42	42	48	54	47	54	61	66	88	58	67	79	56	65	1345
Patents By Year of Application:	590	49	49	52	54	74	77	89	89	85	65	41	27	4	0	1345
MITSUI TOATSU CHEMICALS INC.																
Patents By Year of Grant:	467	95	88	130	139	118	96	79	72	45	2	2	0	0	0	1333
Patents By Year of Application:	654	119	107	118	105	87	97	39	7	0	0	0	0	0	0	1333
EMERSON ELECTRIC CO.																
Patents By Year of Grant:	519	58	44	46	53	46	36	52	43	62	73	83	83	63	60	1321
Patents By Year of Application:	594	46	55	46	50	63	39	65	70	86	80	60	42	24	1	1321
SUMITOMO RUBBER INDUSTRIES, LTD.																
Patents By Year of Grant:	198	49	63	61	79	79	76	76	69	83	71	84	91	88	130	1297
Patents By Year of Application:	311	61	81	71	76	93	65	77	93	95	92	92	72	18	0	1297
ETHYL CORPORATION																
Patents By Year of Grant:	747	109	118	95	88	51	8	12	14	10	8	11	8	4	8	1291
Patents By Year of Application:	930	97	93	71	27	6	17	10	11	9	10	5	2	3	0	1291
CITIZEN WATCH CO., LTD.																
Patents By Year of Grant:	647	23	28	23	31	27	34	35	34	44	71	82	89	65	56	1289
Patents By Year of Application:	690	30	29	19	32	46	43	45	85	81	85	70	28	6	0	1289
STANFORD UNIVERSITY, LELAND JUNIOR, THE BOARD OF TRUSTEES OF																
Patents By Year of Grant:	326	37	57	42	50	63	55	56	64	79	84	103	85	102	86	1289
Patents By Year of Application:	422	44	47	63	68	79	87	62	92	104	102	65	43	11	0	1289

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
TOYODA JIDOSHOKKI SEISAKUSHO KABUSHIKI KAISHA																
Patents By Year of Grant:	324	17	46	26	40	53	51	51	49	80	88	118	133	141	67	1284
Patents By Year of Application:	355	46	27	51	58	52	62	70	118	112	116	136	80	1	0	1284
SMITHKLINE BEECHAM CORPORATION																
Patents By Year of Grant:	0	12	15	10	16	7	24	24	72	98	191	197	256	211	140	1273
Patents By Year of Application:	24	16	7	15	20	44	93	69	258	217	217	143	105	44	1	1273
SEIKO INSTRUMENTS INC.																
Patents By Year of Grant:	47	50	53	63	55	51	62	56	60	67	79	98	151	192	184	1268
Patents By Year of Application:	155	65	58	45	70	84	76	65	76	113	147	159	120	35	0	1268
DANA CORPORATION																
Patents By Year of Grant:	341	39	44	40	47	59	42	59	79	82	88	103	97	77	70	1267
Patents By Year of Application:	404	43	57	58	39	68	86	101	88	79	108	56	69	10	1	1267
TORAY INDUSTRIES INC.																
Patents By Year of Grant:	533	40	39	39	41	41	44	37	62	48	61	70	72	65	62	1254
Patents By Year of Application:	610	40	34	41	54	52	47	73	66	79	72	46	32	8	0	1254
ZENITH ELECTRONICS CORPORATION																
Patents By Year of Grant:	776	59	59	61	46	36	31	33	33	28	25	24	17	8	16	1252
Patents By Year of Application:	874	60	59	51	29	30	34	37	32	20	18	4	4	0	0	1252
DEGUSSA AKTIENGESELLSCHAFT																
Patents By Year of Grant:	452	52	68	52	61	62	42	50	48	63	49	21	39	86	102	1247
Patents By Year of Application:	541	67	48	69	54	49	55	61	64	31	42	57	84	25	0	1247
CALIFORNIA INSTITUTE OF TECHNOLOGY																
Patents By Year of Grant:	277	30	36	32	29	47	37	24	46	94	100	103	125	111	138	1229
Patents By Year of Application:	339	37	28	44	51	42	72	95	96	128	117	104	69	7	0	1229
INTERNATIONAL FLAVORS + FRAGRANCES INC																
Patents By Year of Grant:	911	41	39	25	26	30	27	19	12	17	4	20	21	20	13	1225
Patents By Year of Application:	960	31	31	17	37	29	18	18	11	11	25	20	12	5	0	1225
DAEWOO ELECTRONICS COMPANY, LTD.																
Patents By Year of Grant:	8	1	0	3	1	19	47	131	216	320	279	123	55	15	4	1222
Patents By Year of Application:	10	1	2	6	44	151	215	305	282	175	20	6	3	2	0	1222
KAWASAKI STEEL CORPORATION																
Patents By Year of Grant:	351	50	52	44	59	83	54	62	70	59	64	60	86	77	42	1213
Patents By Year of Application:	436	47	63	75	68	73	61	72	61	72	67	63	46	8	1	1213

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 1000 or More Patents ----

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----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
AGILENT TECHNOLOGIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	124	338	314	388	1164
Patents By Year of Application:	0	0	0	1	0	2	4	8	28	224	328	274	215	80	0	1164
ROLLS-ROYCE PLC																
Patents By Year of Grant:	567	33	48	67	47	41	47	35	34	26	36	43	42	42	56	1164
Patents By Year of Application:	650	53	48	27	52	44	41	26	48	35	42	43	37	18	0	1164
DRESSER INDUSTRIES, INC.																
Patents By Year of Grant:	826	25	37	28	20	22	12	15	25	27	46	44	23	7	2	1159
Patents By Year of Application:	865	40	24	18	13	22	26	27	38	59	21	4	2	0	0	1159
LITTON SYSTEMS INC.																
Patents By Year of Grant:	387	38	42	33	39	63	73	67	35	59	78	73	92	42	36	1157
Patents By Year of Application:	467	47	38	55	68	72	35	45	84	84	86	47	24	5	0	1157
KOBEL STEEL LTD.																
Patents By Year of Grant:	445	40	61	74	36	58	43	46	42	67	59	49	46	45	45	1156
Patents By Year of Application:	528	62	55	58	41	61	46	67	74	39	45	36	35	9	0	1156
MANNESMANN AG																
Patents By Year of Grant:	379	44	63	63	85	61	52	54	47	59	65	69	62	24	24	1151
Patents By Year of Application:	477	62	80	59	57	56	58	56	70	64	78	23	10	1	0	1151
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
SCHERING CORP.																
Patents By Year of Grant:	399	37	52	32	32	33	50	29	71	78	81	53	72	63	64	1146
Patents By Year of Application:	484	40	30	43	47	56	111	48	65	55	63	50	38	16	0	1146
SMITHKLINE BECKMAN CORPORATION																
Patents By Year of Grant:	884	34	14	31	19	27	37	27	21	24	21	0	0	1	0	1140
Patents By Year of Application:	940	17	30	34	23	28	33	17	15	3	0	0	0	0	0	1140
MEAD CORPORATION																
Patents By Year of Grant:	631	72	56	38	38	37	27	20	32	54	40	29	25	22	16	1137
Patents By Year of Application:	738	48	32	38	35	24	30	46	43	32	19	35	10	7	0	1137
NATIONAL RESEARCH DEVELOPMENT CORPORATION																
Patents By Year of Grant:	918	59	58	60	19	3	1	0	1	1	1	2	3	3	1	1130
Patents By Year of Application:	1034	54	27	2	2	1	2	0	0	4	1	2	1	0	0	1130

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
UNITED STATES SURGICAL CORPORATION																
Patents By Year of Grant:	159	12	33	50	57	118	160	141	97	93	98	46	33	17	16	1130
Patents By Year of Application:	191	53	61	113	164	143	128	98	88	38	23	13	16	1	0	1130
BRUNSWICK CORPORATION																
Patents By Year of Grant:	556	85	30	38	14	23	26	17	24	50	52	61	55	52	45	1128
Patents By Year of Application:	666	22	29	9	31	24	28	35	66	42	56	52	45	23	0	1128
ASAHI GLASS COMPANY, LTD.																
Patents By Year of Grant:	313	31	45	48	50	42	36	47	47	64	68	54	85	82	106	1118
Patents By Year of Application:	380	50	40	45	40	49	50	73	83	66	77	68	73	23	1	1118
AMERICAN STANDARD, INC.																
Patents By Year of Grant:	471	45	75	43	51	37	42	53	31	47	79	87	18	16	18	1113
Patents By Year of Application:	568	65	45	29	36	49	57	46	44	74	71	5	11	13	0	1113
NALCO CHEMICAL COMPANY																
Patents By Year of Grant:	499	54	49	71	59	71	69	30	34	33	34	41	38	31	0	1113
Patents By Year of Application:	585	50	66	65	77	48	48	35	32	40	35	28	4	0	0	1113
MCDONNELL DOUGLAS CORP.																
Patents By Year of Grant:	412	34	45	34	38	26	40	43	52	111	138	77	41	15	3	1109
Patents By Year of Application:	483	50	41	27	22	55	53	115	153	80	19	6	3	2	0	1109
VLSI TECHNOLOGY, INC.																
Patents By Year of Grant:	11	7	26	44	68	89	112	100	94	150	158	135	88	27	0	1109
Patents By Year of Application:	40	58	77	90	89	102	116	162	186	108	69	11	1	0	0	1109
FUJI JUKOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	309	120	137	60	39	29	33	34	37	40	32	44	56	51	85	1106
Patents By Year of Application:	488	122	37	35	35	38	40	36	42	46	50	46	69	21	1	1106
NORTHROP GRUMMAN CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	8	55	106	104	198	164	132	88	97	152	1104
Patents By Year of Application:	25	4	2	8	39	82	169	139	183	142	98	89	90	34	0	1104
SEAGATE TECHNOLOGY, INCORPORATED																
Patents By Year of Grant:	32	18	39	52	62	48	40	65	98	164	193	237	29	15	8	1100
Patents By Year of Application:	76	73	44	43	47	88	122	142	246	162	46	7	4	0	0	1100
UNION OIL COMPANY OF CALIFORNIA																
Patents By Year of Grant:	650	57	91	88	54	47	28	11	15	14	8	13	8	4	5	1093
Patents By Year of Application:	795	71	64	51	34	19	16	6	9	13	6	5	3	1	0	1093



----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
<b>WHIRLPOOL CORPORATION</b>																
Patents By Year of Grant:	477	46	65	41	42	45	35	46	21	43	38	39	24	53	78	1093
Patents By Year of Application:	564	60	25	34	62	44	31	27	53	19	33	34	59	42	6	1093
<b>DART INDUSTRIES INC.</b>																
Patents By Year of Grant:	543	25	33	21	22	39	26	32	41	57	60	48	43	35	62	1087
Patents By Year of Application:	607	18	20	31	19	25	50	45	48	56	41	38	38	47	4	1087
<b>WISCONSIN ALUMNI RESEARCH FOUNDATION</b>																
Patents By Year of Grant:	242	15	44	39	53	50	44	64	62	83	86	64	75	81	85	1087
Patents By Year of Application:	459	49	45	50	42	43	36	47	76	67	47	65	47	12	0	1085
<b>MATSUSHITA ELECTRIC WORKS, LTD.</b>																
Patents By Year of Grant:	394	39	34	46	48	53	37	46	25	54	69	64	56	54	66	1085
Patents By Year of Application:	297	43	41	50	55	59	88	69	84	69	84	75	58	13	0	1085
<b>GOLDSTAR COMPANY, LTD.</b>																
Patents By Year of Grant:	101	65	67	89	96	155	183	182	85	36	13	1	2	1	0	1076
Patents By Year of Application:	225	84	119	141	178	217	61	40	10	0	1	0	0	0	0	1076
<b>CONOCO, INC.</b>																
Patents By Year of Grant:	772	52	55	50	37	19	13	11	7	7	7	2	9	21	5	1067
Patents By Year of Application:	846	53	52	28	15	13	7	8	8	4	10	14	8	1	0	1067
<b>SEAGATE TECHNOLOGY, LLC</b>																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	59	286	323	399	1067
Patents By Year of Application:	0	0	0	0	2	5	12	10	26	179	290	309	212	22	0	1067
<b>COMBUSTION ENGINEERING INC.</b>																
Patents By Year of Grant:	761	21	18	19	48	59	26	19	15	39	22	14	3	0	0	1064
Patents By Year of Application:	798	18	22	65	45	29	17	28	24	14	3	1	0	0	0	1064
<b>PORSCHE AG</b>																
Patents By Year of Grant:	312	51	53	49	33	31	43	50	53	42	70	49	67	85	75	1063
Patents By Year of Application:	389	47	44	30	49	50	57	48	79	46	46	64	87	26	1	1063
<b>NESTEC, S.A.</b>																
Patents By Year of Grant:	151	50	41	56	69	47	64	50	45	67	108	76	97	67	73	1061
Patents By Year of Application:	239	43	61	73	55	62	62	76	85	83	69	93	52	8	0	1061
<b>FUJI PHOTO OPTICAL CO. LTD.</b>																
Patents By Year of Grant:	172	6	7	8	22	44	26	44	76	102	86	114	96	126	130	1059
Patents By Year of Application:	178	7	21	27	45	40	67	86	107	90	121	113	101	54	2	1059

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
CASE CORPORATION																
Patents By Year of Grant:	461	36	29	24	36	17	21	26	23	37	67	79	73	51	77	1057
Patents By Year of Application:	504	39	24	31	17	29	37	53	53	67	78	49	58	17	1	1057
BABCOCK & WILCOX COMPANY																
Patents By Year of Grant:	530	45	43	45	69	42	53	71	56	38	9	14	16	15	7	1053
Patents By Year of Application:	597	41	58	56	50	80	67	38	22	12	12	10	7	3	0	1053
LOCKHEED MARTIN CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	20	49	109	121	178	159	193	224	1053
Patents By Year of Application:	29	0	2	0	7	23	68	107	107	161	181	169	146	52	1	1053
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
TEIJIN LIMITED																
Patents By Year of Grant:	452	37	26	29	53	44	43	38	47	37	37	43	55	57	45	1043
Patents By Year of Application:	514	38	42	34	38	56	57	33	35	46	53	47	39	11	0	1043
RAYCHEM CORPORATION																
Patents By Year of Grant:	591	58	57	55	41	37	40	34	35	51	36	5	0	0	0	1040
Patents By Year of Application:	697	58	39	46	38	31	50	42	35	4	0	0	0	0	0	1040
DAIKIN INDUSTRIES LIMITED																
Patents By Year of Grant:	301	50	45	57	50	37	30	32	52	60	43	60	83	68	66	1034
Patents By Year of Application:	392	54	48	39	30	46	62	45	58	72	65	55	52	16	0	1034
SANSBIN KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	152	71	73	49	57	57	32	74	58	83	70	87	63	72	35	1033
Patents By Year of Application:	257	69	49	54	62	48	72	99	79	85	64	63	29	3	0	1033
LG SEMICON CO., LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	32	119	235	312	255	42	30	7	1032
Patents By Year of Application:	0	0	0	0	2	10	140	230	328	237	68	10	5	2	0	1032
BRITISH TELECOMMUNICATION, PLC																
Patents By Year of Grant:	181	70	52	60	42	50	64	49	37	74	80	72	94	58	48	1031
Patents By Year of Application:	307	52	47	56	64	73	48	91	80	168	17	16	9	3	0	1031
L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE																
Patents By Year of Grant:	210	20	29	44	42	45	58	52	35	50	76	75	130	81	80	1027
Patents By Year of Application:	241	45	38	51	47	63	49	56	71	78	112	99	59	17	1	1027

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 1000 or More Patents -----

Pre

1990 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 TOTAL

QUALCOMM, INC.

Patents By Year of Grant: 1 7 4 9 8 9 23 51 46 84 120 109 175 196 180 1022

Patents By Year of Application: 12 8 9 9 22 56 79 126 135 171 240 95 50 10 0 1022

HONEYWELL INTERNATIONAL INC.

Patents By Year of Grant: 0 0 0 0 0 0 0 0 0 0 0 61 222 351 380 1014

Patents By Year of Application: 1 0 2 0 0 2 4 8 32 111 168 363 240 83 0 1014

MILES INC.

Patents By Year of Grant: 544 53 37 103 109 90 62 6 7 0 0 0 0 0 0 1011

Patents By Year of Application: 653 64 105 85 66 33 5 0 0 0 0 0 0 0 0 1011

HERCULES INCORPORATED

Patents By Year of Grant: 529 37 67 39 31 34 26 42 37 32 22 32 36 29 17 1010

Patents By Year of Application: 624 48 39 32 24 47 38 33 34 30 22 28 9 2 0 1010

STANDARD OIL COMPANY

Patents By Year of Grant: 776 47 33 41 20 11 9 7 15 10 11 11 8 9 2 1010

Patents By Year of Application: 850 37 30 11 3 10 16 10 11 12 11 6 3 0 0 1010

ETHICON, INC.

Patents By Year of Grant: 198 22 23 35 53 71 72 45 61 55 61 75 73 70 90 1004

Patents By Year of Application: 238 23 40 70 84 57 55 74 61 87 84 69 57 4 1 1004

Other Organizations (196945)

Patents By Year of Grant: 435839 45331 48538 49237 49913 51818 52268 56188 59304 78362 82476 86465 93314 94889 98365 1382307

Patents By Year of Application: 519671 49018 49391 51800 54976 62803 75745 74239 86586 87456 91853 86622 65702 25050 1397 1382309