

TECHNOLOGY ASSESSMENT AND FORECAST REPORT

CHEMICAL CLASSES

1/1996 – 12/2015



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

Technology Profile Report - CHEMICAL Classes

Explanation of Data

This Technology Profile Report profiles the patent activity for U.S. utility patents granted between **1996** and **December 2015** in CHEMICAL technology discipline classes within the U.S. Patent Classification System (USPCS).

The report is generated by identifying appropriate Patent and Trademark Office (PTO) classes, i.e., those entirely or substantially pertinent to the technology discipline of interest. The patents in these classes are then included in the profile. This procedure results, in most cases, in the inclusion of the majority of patents relevant to the technology discipline and few, if any, patents which are not relevant. However, any patent listing provided should not be considered to be inclusive of all relevant patents, nor exclusive of all irrelevant patents.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes utility patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes patent 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, as shown in the "**Pre 2002**" column, correspond to selected patents in the data base which were granted during the period **1996 to 2001**.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1995. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

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

Since the average time period between filing for a utility patent and the issuing of the patent (i.e., the patent's "pendency") is now about **26** months, the patented application data for applications filed in the most recent years are incomplete.* This is because the patents included in this report are limited to those granted during the specified time period. However, a significant number of the applications filed during the most recent years of this time period were still pending at the end of the period. While many of these applications eventually will be patented, they will not be patented until sometime following the end of the period displayed in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity since, for the most part, such fluctuations would be immune from changes in U.S. Patent and

Trademark Office (PTO) processing such as occurred in years such as in 1986 and 2005 when the PTO issued fewer patents than would have normally been expected because of 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.

"Patents Granted By Date of Patent Application", as shown in the "**Pre 2002**" column, correspond to utility patent grants in the report that were filed prior to **2002**.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity in all technologies. Part A1 presents data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted By Date of Patent Application"). The location of **patent origin is determined by the residence of the first named inventor at the time of grant**.

Patent ownership information reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporation ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in these categories. While U.S. Government patent ownership includes only patents granted to the Federal Government, no similar distinction is made for Foreign Government patents.

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

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) that have received 200 or more U.S. utility patents since 1986. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented applications were filed. Information regarding 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.

* For example, in a report profiling utility patents granted through December 2015, patent grant data, as distributed by year of application are approximately 97% complete for utility patent applications filed in 2007, 97% complete for filings in 2008, 91% complete for filings in 2009, 86% complete for filings in 2010, 83% complete for filings in 2011, 69% complete for filings in 2012, 43% for filings in 2013, and 16% for filings in 2014; data are essentially complete for applications filed prior to 2007.

CHEMICAL, ELECTRICAL, MECHANICAL CLASSES

DECEMBER 2015

CHEMICAL	8	23	44	48	51	55	65	71	75	95	96	106	117	127	136	148
	149	156	159	162	196	201	202	203	204	205	208	210	216	252	260	264
	376	419	420	422	423	424	426	427	428	429	430	435	436	438	442	501
	502	503	504	507	508	510	512	514	516	518	520	521	522	523	524	525
	526	527	528	530	532	534	536	540	544	546	548	549	552	554	556	558
	560	562	564	568	570	585	588	800	930	976	977	987				

The following subclasses are also Chemical: 29/2, 25.01-25.03, 623.1-623.5; 118/47, 715-733; 131/274 279; 134/1 42; 505/100-126, 300-512, 725-785, 800-824, 951

ELECTRICAL	174	177	178	191	200	218	219	235	250	257	290	307	310	313	314	315
	318	320	322	323	324	326	327	329	330	331	332	333	334	335	336	337
	338	340	341	342	343	345	346	347	348	349	352	355	356	358	359	360
	361	362	363	365	367	368	369	370	372	373	375	377	378	379	380	381
	382	385	386	388	392	396	398	399	455	505	700	701	702	703	704	705
	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	725
	726	850	902													

The following subclasses are also Electrical: 84/600-746; 204/157.2-157.22; 209/ 127.1-131, 511, 524-528, 536, 563-590; 244/3.1-3.14; 434/1-10, 307R-321, 350-362; 600/310-361, 372-397, 407-436, 473-480, 509-525, 544-548; 604/20-21; 607/2-76, 98-103, 115-156; 968/446-604, 783, 802, 820-830, 837-856, 876-977; 977/720-723, 839, 849-881, 901, 932-960; 984/300-398

MECHANICAL	2	4	5	7	12	14	15	16	19	24	26	27	28	29	30	33
	34	36	37	38	40	42	43	47	49	52	53	54	56	57	59	60
	62	63	66	68	69	70	72	73	74	76	79	81	82	83	84	86
	87	89	91	92	99	100	101	102	104	105	108	109	110	111	112	114
	116	118	119	122	123	124	125	126	128	131	132	134	135	137	138	139
	140	141	142	144	147	150	152	157	160	163	164	165	166	168	169	171
	172	173	175	180	181	182	184	185	186	187	188	190	192	193	194	198
	199	206	209	211	212	213	215	217	220	221	222	223	224	225	226	227
	228	229	231	232	234	236	237	238	239	241	242	244	245	246	248	249
	251	254	256	258	261	266	267	269	270	271	273	276	277	278	279	280
	281	283	285	289	291	292	293	294	295	296	297	298	299	300	301	303
	305	312	351	353	366	374	383	384	400	401	402	403	404	405	406	407
	408	409	410	411	412	413	414	415	416	417	418	425	431	432	433	434
	439	440	441	445	446	449	450	451	452	453	454	460	462	463	464	470
	472	473	474	475	476	477	482	483	492	493	494	600	601	602	604	606
	607	623	901	903	968	984										

The following subclasses are also Mechanical: 8/147-159; 156/349-584; 210/348-540; 346/139R-145; 347/1-109; 352/143-197, 204-243; 359/503-553, 600-617, 838-883; 368/89-106, 124-154, 168-202, 206-216, 276-326; 378/167-209; 385/53-99; 396/341-372, 411-428, 439-543, 564-660; 588/249-250, 252-260; 726/35; 977/724-733, 904-913, 919, 962

TECHNOLOGY ASSESSMENT AND FORECAST PROGRAM TECHNOLOGY DISCIPLINES FOR
 U.S. PATENT CLASSIFICATION SYSTEM CLASSES AS OF DECEMBER 2015
CHEMICAL, ELECTRICAL, MECHANICAL

Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class
2M	66M	124M	181M	228M	289M	343E	398E	441M	522C	707E
4M	68M	125M	182M	229M	290E	345E	399E	442C	523C	708E
5M	69M	126M	184M	231M	291M	346E*	400M	445M	524C	709E
7M	70M	127C	185M	232M	292M	347E*	401M	446M	525C	710E
8C*	71C	128M	186M	234M	293M	348E	402M	449M	526C	711E
12M	72M	131M*	187M	235E	294M	349E	403M	450M	527C	712E
14M	73M	132M	188M	236M	295M	351M	404M	451M	528C	713E
15M	74M	134M*	190M	237M	296M	352E*	405M	452M	530C	714E
16M	75C	135M	191E	238M	297M	353M	406M	453M	532C	715E
19M	76M	136C	192M	239M	298M	355E	407M	454M	534C	716E
23C	79M	137M	193M	241M	299M	356E	408M	455E	536C	717E
24M	81M	138M	194M	242M	300M	358E	409M	460M	540C	718E
26M	82M	139M	196C	244M*	301M	359E*	410M	462M	544C	719E
27M	83M	140M	198M	245M	303M	360E	411M	463M	546C	720E
28M	84M*	141M	199M	246M	305M	361E	412M	464M	548C	725E
29M*	86M	142M	200E	248M	307E	362E	413M	470M	549C	726E*
30M	87M	144M	201C	249M	310E	363E	414M	472M	552C	800C
33M	89M	147M	202C	250E	312M	365E	415M	473M	554C	850E
34M	91M	148C	203C	251M	313E	366M	416M	474M	556C	901M
36M	92M	149C	204C*	252C	314E	367E	417M	475M	558C	902E
37M	95C	150M	205C	254M	315E	368E*	418M	476M	560C	903M
38M	96C	152M	206M	256M	318E	369E	419C	477M	562C	930C
40M	99M	156C*	208C	257E	320E	370E	420C	482M	564C	968M*
42M	100M	157M	209M*	258M	322E	372E	422C	483M	568C	976C
43M	101M	159C	210C*	260C	323E	373E	423C	492M	570C	977C*
44C	102M	160M	211M	261M	324E	374M	424C	493M	585C	984M*
47M	104M	162C	212M	264C	326E	375E	425M	494M	588C*	987C
48C	105M	163M	213M	266M	327E	376C	426C	501C	600M*	
49M	106C	164M	215M	267M	329E	377E	427C	502C	601M	
51C	108M	165M	216C	269M	330E	378E*	428C	503C	602M	
52M	109M	166M	217M	270M	331E	379E	429C	504C	604M*	
53M	110M	168M	218E	271M	332E	380E	430C	505E*	606M	
54M	111M	169M	219E	273M	333E	381E	431M	507C	607M*	
55C	112M	171M	220M	276M	334E	382E	432M	508C	623M	
56M	114M	172M	221M	277M	335E	383M	433M	510C	700E	
57M	116M	173M	222M	278M	336E	384M	434M*	512C	701E	
59M	117C	174E	223M	279M	337E	385E*	435C	514C	702E	
60M	118M*	175M	224M	280M	338E	386E	436C	516C	703E	
62M	119M	177E	225M	281M	340E	388E	438C	518C	704E	
63M	122M	178E	226M	283M	341E	392E	439M	520C	705E	
65C	123M	180M	227M	285M	342E	396E*	440M	521C	706E	

- *8/147-159 are mechanical
- *29/2, 25.01-25.03, 623.1-623.5 are chemical
- *84/600-746 are electrical
- *118/47, 715-733 are chemical
- *131/274-279 are chemical
- *134/1-42 are chemical
- *156/349-584 are mechanical
- *204/157.2-157.22 are electrical
- *209/127.1-131, 511, 524-528, 536, 563-590 are electrical
- *210/348-540 are mechanical
- *244/3.1-3.14 are electrical
- *346/139R-145 are mechanical
- *347/1-109 are mechanical
- *352/143-197, 204-243 are mechanical
- *359/503-553, 600-617, 838-883 are mechanical
- *368/89-106, 124-154, 168-202, 206-216, 276-326 are mechanical
- *378/167-209 are mechanical
- *385/53-99 are mechanical
- *396/341-372, 411-428, 439-543, 564-660 are mechanical
- *434/1-10, 307R-321, 350-362 are electrical
- *505/100-126, 300-512, 725-785, 800-824, 951 are chemical
- *588/249-250, 252-260 are mechanical
- *600/310-361, 372-397, 407-436, 473-480, 509-525, 544-548 are electrical
- *604/20-21 are electrical
- *607/2-76, 98-103, 115-156 are electrical
- *726/35 is mechanical
- *968/446-604, 783, 802, 820-830, 837-856, 876-977 are electrical
- *977/720-723, 839, 849-881, 901, 932-960 are electrical
- *977/724-733, 904-913, 919, 962 are mechanical
- *984/300-398 are electrical

Part A1

Patent Grants as Distributed By Year of Patent Grant

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1996 - Dec 31, 2015) ----

	NUMBER OF PATENTS															
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total	235052	44939	42556	38122	30286	33848	31985	30784	33131	45726	46132	49327	53880	57845	55742	829355
U.S. Origin	124270	22895	21691	18945	15515	17220	16221	15089	16168	21838	21634	23106	25169	26810	25513	412084
Foreign Origin	110782	22044	20865	19177	14771	16628	15764	15695	16963	23888	24498	26221	28711	31035	30229	417271
JAPAN	43425	8436	8152	7772	5801	6345	5979	5868	6343	8865	9216	9485	9503	9860	9225	154275
GERMANY	17715	3386	3311	2976	2214	2433	2190	2058	2076	3094	2964	3392	3805	4188	3892	59694
KOREA, SOUTH	3846	1051	1035	1093	943	1184	1224	1424	1783	2423	2449	2323	2605	2997	3171	29551
FRANCE	7734	1426	1352	984	838	939	974	914	902	1303	1370	1495	1733	1816	1753	25533
UNITED KINGDOM	7179	1247	1154	981	796	883	900	795	768	1158	1097	1248	1278	1333	1433	22250
TAIWAN	5120	1146	972	1015	756	846	731	804	841	1088	1154	1305	1559	1759	1573	20669
CANADA	4777	927	819	736	556	691	628	650	716	908	944	1034	1074	1101	1145	16706
ITALY	2841	524	452	399	309	346	314	338	357	533	506	546	604	648	667	9384
SWITZERLAND	2757	469	406	386	295	334	295	287	321	507	518	550	696	657	676	9154
NETHERLANDS	2138	443	442	390	293	275	315	302	328	442	488	466	568	675	699	8264
BELGIUM	2193	442	350	315	234	290	260	230	279	386	406	407	493	529	485	7299
SWEDEN	1839	396	340	280	218	245	239	261	229	335	352	382	350	423	366	6255
CHINA, PEOPLE'S REPUB	241	80	77	97	72	108	139	129	211	354	409	638	914	1162	1218	5849
ISRAEL	1003	240	249	171	145	197	174	203	246	288	291	332	427	434	453	4853
AUSTRALIA	1152	239	190	202	176	215	168	186	206	275	326	309	356	371	384	4755
INDIA	448	188	230	210	198	231	195	201	199	263	261	334	421	480	549	4408
DENMARK	1212	199	221	141	138	150	141	138	141	245	258	273	325	348	312	4242
FINLAND	940	206	185	193	136	131	107	119	125	167	137	151	149	177	197	3120
AUSTRIA	822	164	129	128	88	107	100	94	106	167	164	194	244	307	260	3074
SINGAPORE	359	171	157	119	96	104	97	91	105	168	202	235	246	267	238	2655
SPAIN	420	94	88	69	70	81	80	93	102	131	140	184	189	216	254	2211
RUSSIAN FEDERATION	429	82	64	55	55	45	62	48	60	95	77	63	107	105	89	1436
NORWAY	323	59	66	73	52	48	55	61	62	81	94	87	108	119	122	1410
CHINA, HONG KONG S.A.	94	26	34	35	43	61	66	63	67	74	68	84	63	82	99	959
BRAZIL	113	26	35	31	22	38	28	26	39	70	73	58	80	121	85	845
NEW ZEALAND	149	37	35	38	16	35	31	28	38	47	55	59	54	62	54	738
SOUTH AFRICA	201	45	32	26	24	29	30	21	29	37	42	50	62	41	58	727
IRELAND	113	23	32	35	29	16	15	36	28	43	51	51	65	64	67	668
MEXICO	127	22	24	17	12	13	15	15	24	34	33	42	65	66	53	562
SAUDI ARABIA	22	4	8	7	7	8	8	5	7	22	23	60	88	115	165	549
HUNGARY	138	31	29	25	20	19	21	35	17	38	29	28	33	29	35	527
MALAYSIA	38	14	16	22	19	22	27	22	30	34	39	56	62	69	43	513
CZECH REPUBLIC	40	10	12	14	4	11	13	10	18	22	31	19	32	25	25	286
POLAND	45	6	4	6	5	7	9	13	9	13	22	16	25	41	51	272
ARGENTINA	63	13	16	13	4	15	9	10	14	11	16	17	21	19	20	261
CHILE	32	8	4	3	3	7	8	4	10	12	16	14	27	36	35	219
Others (99)	694	164	143	120	84	119	117	113	127	155	177	234	280	293	278	3098
Ownership:																
U.S. Corporations	117126	21951	20665	18108	14839	16491	15615	14621	15561	20823	20733	22064	24240	25657	24241	392735
U.S. Government	2266	298	308	330	244	285	259	253	275	373	374	347	372	432	408	6824
U.S. Individuals	10944	1640	1601	1267	950	955	903	774	807	1160	1177	1267	1275	1285	1306	27311
Foreign Corporations	99067	20058	19043	17653	13748	15520	14670	14670	15938	22575	23050	24767	27095	29521	28894	386269
Foreign Government	547	56	42	38	25	20	31	12	53	94	94	129	106	147	175	1569
Foreign Individuals	5102	936	897	726	480	577	507	454	497	701	704	753	792	803	718	14647

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1996 - Dec 31, 2015) ----

	PERCENT OF PATENTS															
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	53	51	51	50	51	51	51	49	49	48	47	47	47	46	46	50
Foreign Origin	47	49	49	50	49	49	49	51	51	52	53	53	53	54	54	50
JAPAN	18	19	19	20	19	19	19	19	19	19	20	19	18	17	17	19
GERMANY	8	8	8	8	7	7	7	7	6	7	6	7	7	7	7	7
KOREA, SOUTH	2	2	2	3	3	3	4	5	5	5	5	5	5	5	6	4
FRANCE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
UNITED KINGDOM	3	3	3	3	3	3	3	3	2	3	2	3	2	2	3	3
TAIWAN	2	3	2	3	2	2	2	3	3	2	3	3	3	3	3	2
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ITALY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SWITZERLAND	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
BELGIUM	1	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
CHINA, PEOPLE'S REPUB									1	1	1	1	2	2	2	1
ISRAEL		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	1
INDIA			1	1	1	1	1	1	1	1	1	1	1	1	1	1
DENMARK	1		1							1	1	1	1	1	1	1
FINLAND				1												0
AUSTRIA														1		0
SINGAPORE																0
SPAIN																0
RUSSIAN FEDERATION																0
NORWAY																0
CHINA, HONG KONG S.A.																0
BRAZIL																0
NEW ZEALAND																0
SOUTH AFRICA																0
IRELAND																0
MEXICO																0
SAUDI ARABIA																0
HUNGARY																0
MALAYSIA																0
CZECH REPUBLIC																0
POLAND																0
ARGENTINA																0
CHILE																0
Others (99)													1	1		0
Ownership:																
U.S. Corporations	50	49	49	48	49	49	49	47	47	46	45	45	45	44	43	47
U.S. Government	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U.S. Individuals	5	4	4	3	3	3	3	3	2	3	3	3	2	2	2	3
Foreign Corporations	42	45	45	46	45	46	46	48	48	49	50	50	50	51	52	47
Foreign Government																0
Foreign Individuals	2	2	2	2	2	2	2	1	2	2	2	2	1	1	1	2

Part A2

Patent Grants as Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1996 - Dec 31, 2015) ----

	NUMBER OF PATENTED APPLICATIONS															
	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total	353777	51704	45085	40552	39012	40439	40750	39777	38962	40423	38042	31811	20476	7769	776	829355
U.S. Origin	184302	24460	21841	19484	18425	18713	19066	17919	17939	18944	18095	16634	11448	4347	467	412084
Foreign Origin	169475	27244	23244	21068	20587	21726	21684	21858	21023	21479	19947	15177	9028	3422	309	417271
JAPAN	65398	10178	8891	8171	7987	7955	7865	7948	7376	7190	6659	4938	2626	1022	71	154275
GERMANY	27170	4380	3483	2828	2676	2763	2706	2732	2696	2771	2412	1752	978	321	26	59694
KOREA, SOUTH	6162	1512	1568	1679	1984	2372	2274	2155	2121	2228	2227	1654	1159	413	43	29551
FRANCE	11754	1625	1337	1188	1176	1152	1272	1317	1350	1252	951	708	342	104	5	25533
UNITED KINGDOM	10945	1628	1239	991	888	949	1039	936	853	916	723	602	371	158	12	22250
TAIWAN	7141	1259	1095	1029	905	989	1012	952	1028	1225	1451	1152	1003	394	34	20669
CANADA	7313	1002	812	800	751	805	809	802	763	832	740	666	448	152	11	16706
ITALY	4195	660	551	478	448	481	425	426	421	418	377	281	154	60	9	9384
SWITZERLAND	4031	577	465	424	407	466	461	475	447	443	396	307	180	62	13	9154
NETHERLANDS	3466	543	515	435	388	392	468	433	408	403	330	302	127	50	4	8264
BELGIUM	3323	448	378	352	346	379	373	364	335	323	291	205	120	55	7	7299
SWEDEN	2965	441	353	286	288	331	277	309	282	234	219	152	76	38	4	6255
CHINA, PEOPLE'S REPUB	492	148	180	183	222	339	413	505	581	742	851	715	322	144	12	5849
ISRAEL	1768	280	232	271	275	306	262	269	291	275	246	179	127	65	7	4853
AUSTRALIA	2004	293	265	265	247	240	257	236	230	209	209	160	93	41	6	4755
INDIA	950	381	352	304	219	268	266	311	276	299	316	257	137	65	7	4408
DENMARK	1896	239	203	187	198	221	195	216	230	200	186	136	98	32	5	4242
FINLAND	1503	300	202	152	131	133	117	124	104	117	111	72	44	8	2	3120
AUSTRIA	1249	205	139	129	132	141	165	177	159	187	185	114	68	23	1	3074
SINGAPORE	714	179	138	152	128	172	161	207	173	191	197	140	76	25	2	2655
SPAIN	682	140	116	120	127	148	127	160	132	165	139	64	70	20	1	2211
RUSSIAN FEDERATION	647	91	63	58	77	89	60	73	59	70	54	53	29	12	1	1436
NORWAY	565	123	82	65	69	71	77	78	78	70	57	36	27	10	2	1410
CHINA, HONG KONG S.A.	184	66	85	74	81	62	73	57	58	67	48	54	38	11	1	959
BRAZIL	207	50	42	52	43	57	74	64	73	59	49	48	19	8		845
NEW ZEALAND	282	52	53	41	35	43	40	42	41	35	25	25	17	5	2	738
SOUTH AFRICA	315	48	39	35	35	50	32	46	39	35	28	13	10	2		727
IRELAND	210	42	35	32	36	47	41	49	43	44	32	23	25	9		668
MEXICO	186	21	31	27	36	30	34	38	29	34	36	29	19	11	1	562
SAUDI ARABIA	34	18	12	6	11	18	17	34	25	77	73	99	77	33	15	549
HUNGARY	211	53	33	30	35	22	29	23	25	22	16	13	8	7		527
MALAYSIA	84	24	33	37	28	32	25	46	36	77	28	35	16	10	2	513
CZECH REPUBLIC	75	17	18	16	17	21	21	20	28	20	16	9	7	1		286
POLAND	61	19	19	6	16	9	15	19	22	20	29	18	12	6	1	272
ARGENTINA	109	11	17	14	8	15	15	19	12	13	12	7	9			261
CHILE	49	7	6	9	8	8	21	19	13	27	28	7	13	4		219
Others (99)	1135	184	162	142	129	150	166	177	186	189	200	152	83	41	2	3098
Ownership:																
U.S. Corporations	174604	23478	20971	18711	17678	17988	18233	17279	17089	18302	17277	15825	10837	4038	425	392735
U.S. Government	3272	388	356	309	304	294	275	288	303	295	271	238	164	59	8	6824
U.S. Individuals	14928	1594	1295	1054	975	923	976	921	987	927	1034	853	571	244	29	27311
Foreign Corporations	152514	25208	21691	19780	19431	20567	20581	20673	19889	20261	18905	14456	8670	3338	305	386269
Foreign Government	709	57	42	63	62	80	71	86	119	101	87	48	29	14	1	1569
Foreign Individuals	7750	979	730	635	562	587	614	530	575	537	468	391	205	76	8	14647

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, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
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INTERNATIONAL BUSINESS MACHINES CORPORATION

Patents By Year of Grant:	1928	467	392	317	278	313	274	371	427	528	493	468	623	765	531	8175
Patents By Year of Application:	2870	308	399	365	359	399	505	566	377	453	408	641	424	92	9	8175

MICRON TECHNOLOGY, INC.

Patents By Year of Grant:	1890	698	597	630	517	503	463	380	306	323	276	230	287	255	182	7537
Patents By Year of Application:	3426	735	563	549	438	445	237	180	133	217	196	204	145	62	7	7537

BASF SE

Patents By Year of Grant:	2362	462	374	335	224	267	217	237	201	316	340	425	568	612	497	7437
Patents By Year of Application:	3425	542	421	306	262	343	318	331	351	365	307	276	164	24	2	7437

SAMSUNG ELECTRONICS CO., LTD.

Patents By Year of Grant:	909	239	260	300	274	400	378	519	547	586	594	490	501	471	459	6927
Patents By Year of Application:	1418	334	506	506	528	616	556	475	426	425	467	327	229	105	9	6927

E. I. DU PONT DE NEMOURS AND COMPANY

Patents By Year of Grant:	1889	283	311	284	216	314	315	276	302	435	436	413	402	391	247	6514
Patents By Year of Application:	2635	335	382	326	354	405	392	306	364	313	314	238	118	30	2	6514

PROCTER + GAMBLE COMPANY

Patents By Year of Grant:	1973	298	306	290	202	176	144	142	126	189	164	201	242	201	186	4840
Patents By Year of Application:	2788	324	216	166	191	130	144	101	162	171	162	151	84	43	7	4840

TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.

Patents By Year of Grant:	1197	298	259	272	213	207	189	136	98	151	200	203	286	487	486	4682
Patents By Year of Application:	1702	408	271	259	157	162	136	115	160	250	275	293	340	140	14	4682

UNIVERSITY OF CALIFORNIA, THE REGENTS OF

Patents By Year of Grant:	1429	271	279	269	217	235	207	149	144	230	185	233	237	274	304	4663
Patents By Year of Application:	2366	289	258	195	196	213	203	184	188	168	145	138	84	30	6	4663

GENERAL ELECTRIC COMPANY

Patents By Year of Grant:	1503	387	334	243	210	231	184	146	126	182	238	195	224	182	197	4582
Patents By Year of Application:	2286	358	313	205	209	163	184	207	177	172	149	106	39	13	1	4582

CANON KABUSHIKI KAISHA

Patents By Year of Grant:	1316	235	251	201	178	170	168	159	186	244	261	216	215	243	255	4298
Patents By Year of Application:	1938	198	227	202	234	187	227	216	176	171	186	155	125	56	0	4298

EASTMAN KODAK COMPANY

Patents By Year of Grant:	2198	278	315	239	138	209	159	97	86	85	77	97	74	73	69	4194
Patents By Year of Application:	2800	281	251	218	135	86	97	69	50	42	66	37	42	20	0	4194

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
3M INNOVATIVE PROPERTIES COMPANY																	
Patents By Year of Grant:		660	361	370	323	229	217	216	184	159	254	250	219	248	266	206	4162
Patents By Year of Application:		1619	362	314	275	237	253	188	200	168	210	154	97	64	19	2	4162
APPLIED MATERIALS, INC.																	
Patents By Year of Grant:		868	293	309	208	209	168	156	151	182	289	234	201	217	232	286	4003
Patents By Year of Application:		1608	281	198	200	184	292	219	200	114	156	188	146	136	78	3	4003
TOSHIBA CORPORATION																	
Patents By Year of Grant:		984	176	157	167	132	208	162	148	202	301	290	252	255	280	223	3937
Patents By Year of Application:		1388	172	186	225	215	239	217	232	225	224	216	218	124	52	4	3937
PIONEER HI-BRED INTERNATIONAL, INC.																	
Patents By Year of Grant:		499	61	70	127	114	133	200	139	200	177	281	372	430	427	368	3598
Patents By Year of Application:		747	94	106	149	151	135	207	232	300	433	319	394	279	52	0	3598
ADVANCED MICRO DEVICES, INC.																	
Patents By Year of Grant:		1437	548	391	313	187	157	86	80	66	55	59	50	20	21	3	3473
Patents By Year of Application:		2375	378	226	142	84	78	60	45	40	19	14	9	3	0	0	3473
BAYER AKTIENGESELLSCHAFT																	
Patents By Year of Grant:		1996	382	329	317	163	141	36	10	5	9	2	4	0	2	0	3396
Patents By Year of Application:		2774	405	143	42	13	8	6	0	1	0	2	2	0	0	0	3396
XEROX CORPORATION																	
Patents By Year of Grant:		1023	160	108	125	73	86	123	128	186	232	208	221	211	200	175	3259
Patents By Year of Application:		1313	140	105	139	229	190	185	191	177	180	130	133	138	7	2	3259
FUJI PHOTO FILM CO., LTD																	
Patents By Year of Grant:		1498	279	303	414	256	306	84	3	2	1	0	0	0	0	0	3146
Patents By Year of Application:		2238	404	325	137	41	1	0	0	0	0	0	0	0	0	0	3146
SEMICONDUCTOR ENERGY LABORATORY CO., LTD.																	
Patents By Year of Grant:		375	99	96	121	92	147	142	171	196	240	259	261	260	263	252	2974
Patents By Year of Application:		703	160	141	182	194	200	152	233	200	221	267	169	89	57	6	2974
MONSANTO TECHNOLOGY, LLC																	
Patents By Year of Grant:		5	36	41	30	47	58	136	165	256	296	228	313	417	473	431	2932
Patents By Year of Application:		145	85	80	67	102	169	288	293	210	351	284	501	254	103	0	2932
SONY CORPORATION																	
Patents By Year of Grant:		832	164	143	160	116	158	152	87	114	188	151	168	184	174	141	2932
Patents By Year of Application:		1272	166	179	174	169	142	137	178	135	142	101	72	42	22	1	2932

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
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TOKYO ELECTRON LIMITED

Patents By Year of Grant:	374	110	91	103	99	80	121	131	167	245	265	262	243	243	247	2781
Patents By Year of Application:	652	166	159	154	188	204	248	177	189	180	184	147	85	45	3	2781

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Patents By Year of Grant:	1062	231	277	284	247	260	196	166	5	0	1	0	0	0	0	2729
Patents By Year of Application:	1753	346	291	191	89	50	7	2	0	0	0	0	0	0	0	2729

SUMITOMO CHEMICAL COMPANY, LIMITED

Patents By Year of Grant:	810	175	167	142	105	96	105	76	97	121	167	188	153	150	148	2700
Patents By Year of Application:	1223	193	148	126	124	117	114	148	131	104	118	106	33	12	3	2700

L'OREAL S.A.

Patents By Year of Grant:	952	226	163	88	79	102	133	104	74	114	109	63	115	137	112	2571
Patents By Year of Application:	1461	167	134	105	118	100	79	76	92	88	71	62	16	2	0	2571

SHIN ETSU CHEMICAL CO., LTD.

Patents By Year of Grant:	611	124	120	153	102	93	89	80	125	147	133	156	147	193	200	2473
Patents By Year of Application:	907	155	139	118	119	124	130	105	132	140	137	122	104	38	3	2473

SAMSUNG SDI CO., LTD.

Patents By Year of Grant:	11	39	40	46	48	53	82	82	123	241	263	201	300	448	470	2447
Patents By Year of Application:	127	86	79	129	238	278	202	198	176	371	289	178	86	9	1	2447

UNITED MICROELECTRONICS CORPORATION

Patents By Year of Grant:	1246	187	115	47	51	54	72	66	98	78	53	73	88	116	94	2438
Patents By Year of Application:	1538	72	57	62	107	90	83	55	32	52	106	80	75	25	4	2438

TEXAS INSTRUMENTS, INCORPORATED

Patents By Year of Grant:	752	129	135	189	118	138	131	118	103	139	120	95	91	91	55	2404
Patents By Year of Application:	1059	185	186	159	135	111	146	88	75	65	69	57	42	23	4	2404

Fujifilm Corporation

Patents By Year of Grant:	0	0	0	0	0	3	218	269	204	287	336	335	265	272	199	2388
Patents By Year of Application:	11	32	98	187	271	323	281	298	276	218	172	87	77	54	3	2388

UNITED STATES OF AMERICA, DEPARTMENT OF HEALTH & HUMAN SERVICES

Patents By Year of Grant:	730	82	76	109	72	109	90	92	97	119	130	115	126	162	142	2251
Patents By Year of Application:	1147	121	113	85	100	87	92	87	105	106	80	70	46	12	0	2251

BRISTOL-MYERS SQUIBB COMPANY

Patents By Year of Grant:	528	96	125	82	107	169	158	143	144	124	101	118	129	107	87	2218
Patents By Year of Application:	790	148	164	147	153	146	140	93	106	80	79	85	61	21	5	2218

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
NEC CORPORATION																	
Patents By Year of Grant:		1385	284	125	51	30	27	24	27	29	33	31	33	29	25	33	2166
Patents By Year of Application:		1808	74	48	45	27	27	26	27	12	24	22	20	5	1	0	2166
PFIZER INC.																	
Patents By Year of Grant:		726	182	192	162	161	135	107	74	74	70	43	60	29	49	57	2121
Patents By Year of Application:		1171	185	193	129	101	72	50	37	37	26	26	39	24	25	6	2121
HITACHI, LTD																	
Patents By Year of Grant:		725	189	264	188	110	94	70	58	39	76	63	63	42	59	35	2075
Patents By Year of Application:		1241	213	131	97	67	57	67	48	30	53	42	21	6	1	1	2075
INTEL CORPORATION																	
Patents By Year of Grant:		230	81	115	152	176	198	209	193	163	164	109	74	77	57	59	2057
Patents By Year of Application:		480	208	303	244	203	177	116	101	47	43	42	38	43	12	0	2057
UOP																	
Patents By Year of Grant:		491	90	64	59	41	55	49	97	90	132	144	150	160	203	232	2057
Patents By Year of Application:		680	71	54	70	83	76	125	119	146	149	177	132	123	44	8	2057
MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG																	
Patents By Year of Grant:		394	99	124	101	80	96	101	93	102	146	121	123	142	163	163	2048
Patents By Year of Application:		714	178	139	162	124	121	102	80	123	105	94	58	39	8	1	2048
GENENTECH, INC.																	
Patents By Year of Grant:		452	68	71	62	70	145	281	224	85	119	79	104	104	95	73	2032
Patents By Year of Application:		858	435	53	57	78	99	64	63	55	67	78	70	43	12	0	2032
EXXONMOBIL CHEMICAL PATENTS INC.																	
Patents By Year of Grant:		57	124	97	85	96	149	162	155	137	207	182	131	146	144	140	2012
Patents By Year of Application:		332	157	201	150	213	174	171	126	104	118	112	84	53	15	2	2012
HYNIX SEMICONDUCTOR INC.																	
Patents By Year of Grant:		1	54	123	176	167	151	131	140	190	282	234	200	119	29	0	1997
Patents By Year of Application:		161	220	209	160	176	192	259	223	162	125	73	37	0	0	0	1997
ELI LILLY AND COMPANY																	
Patents By Year of Grant:		1089	115	87	59	48	53	66	62	67	61	70	66	38	40	34	1955
Patents By Year of Application:		1329	112	99	57	61	47	45	31	43	38	24	26	24	18	1	1955
NOVARTIS AG (FORMERLY SANDOZ LTD.)																	
Patents By Year of Grant:		285	88	75	58	58	62	40	49	59	164	158	231	237	204	186	1954
Patents By Year of Application:		502	110	114	90	94	118	136	98	119	144	142	169	81	34	3	1954

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
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KIMBERLY-CLARK WORLDWIDE, INC.

Patents By Year of Grant:	506	135	187	149	123	101	102	68	59	97	96	62	76	75	38	1874
Patents By Year of Application:	1016	192	142	73	81	64	69	62	41	40	32	33	20	7	2	1874

MERCK + CO., INC.

Patents By Year of Grant:	1026	171	127	56	61	78	102	97	123	24	2	1	0	0	0	1868
Patents By Year of Application:	1376	112	140	112	68	33	18	9	0	0	0	0	0	0	0	1868

INFINEON TECHNOLOGIES AG

Patents By Year of Grant:	57	107	152	188	176	186	155	135	88	132	109	90	88	109	80	1852
Patents By Year of Application:	331	267	236	177	185	117	98	82	65	76	72	84	42	20	0	1852

CORNING INCORPORATED

Patents By Year of Grant:	366	97	106	105	47	50	61	46	59	99	132	153	168	169	169	1827
Patents By Year of Application:	633	96	65	59	74	80	104	124	149	122	114	119	61	27	0	1827

SEIKO EPSON CORPORATION

Patents By Year of Grant:	201	79	103	121	111	138	145	147	153	144	140	101	69	70	67	1789
Patents By Year of Application:	467	111	165	189	154	191	124	122	58	53	58	45	26	26	0	1789

SHELL OIL COMPANY

Patents By Year of Grant:	604	44	50	71	40	66	71	70	74	118	86	72	120	151	131	1768
Patents By Year of Application:	757	94	93	118	65	68	92	85	91	93	92	80	27	13	0	1768

HOFFMANN-LA ROCHE INC.

Patents By Year of Grant:	460	73	81	62	51	77	98	99	116	115	122	114	116	94	72	1750
Patents By Year of Application:	614	81	89	107	106	117	117	102	93	89	83	102	30	14	6	1750

KAO KABUSHIKI KAISHA (KAO CORPORATION)

Patents By Year of Grant:	480	82	71	80	72	76	63	69	76	98	124	122	113	104	98	1728
Patents By Year of Application:	720	125	113	100	94	91	91	101	83	91	62	36	15	6	0	1728

Dow Global Technologies LLC

Patents By Year of Grant:	0	37	83	78	59	58	49	41	64	121	128	186	257	256	286	1703
Patents By Year of Application:	146	101	83	100	76	126	125	138	164	206	201	142	78	14	3	1703

ABBOTT LABORATORIES

Patents By Year of Grant:	743	93	82	46	41	53	43	53	57	81	107	123	68	54	33	1677
Patents By Year of Application:	972	61	59	70	50	80	77	87	76	67	38	31	8	1	0	1677

FUJITSU LIMITED

Patents By Year of Grant:	567	103	111	126	108	95	97	117	69	50	53	58	45	45	30	1674
Patents By Year of Application:	840	119	122	126	136	72	52	35	35	42	40	25	23	7	0	1674

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
RICOH COMPANY, LTD.																	
Patents By Year of Grant:		400	49	80	69	70	62	71	91	74	94	116	133	127	142	94	1672
Patents By Year of Application:		541	106	82	88	108	106	130	117	81	83	84	87	52	7	0	1672
LG CHEM, LTD.																	
Patents By Year of Grant:		40	21	14	15	22	22	40	56	96	130	161	177	195	288	389	1666
Patents By Year of Application:		82	37	44	60	119	182	182	164	113	116	155	140	201	68	3	1666
TOYOTA JIDOSHA K.K.																	
Patents By Year of Grant:		203	31	36	33	23	29	23	37	52	103	121	228	200	264	280	1663
Patents By Year of Application:		311	45	50	68	93	132	176	219	173	183	120	63	14	15	1	1663
Panasonic Corporation																	
Patents By Year of Grant:		0	0	0	0	0	0	0	39	210	316	285	301	243	228	23	1645
Patents By Year of Application:		7	18	39	97	185	231	217	232	179	171	132	100	32	5	0	1645
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN																	
Patents By Year of Grant:		377	61	58	61	53	58	49	74	82	125	96	103	97	134	97	1525
Patents By Year of Application:		498	83	82	80	91	102	73	91	121	91	77	86	41	8	1	1525
HONEYWELL INTERNATIONAL INC.																	
Patents By Year of Grant:		52	106	97	125	91	71	88	74	95	138	119	106	94	150	118	1524
Patents By Year of Application:		324	132	102	120	119	125	106	96	85	67	103	66	46	31	2	1524
CIBA SPECIALTY CHEMICALS CORPORATION																	
Patents By Year of Grant:		630	141	124	95	86	111	88	68	74	81	6	2	2	0	0	1508
Patents By Year of Application:		931	177	154	96	59	46	22	13	8	2	0	0	0	0	0	1508
UNIVERSITY OF TEXAS																	
Patents By Year of Grant:		390	61	60	64	63	78	61	50	63	84	78	90	107	122	126	1497
Patents By Year of Application:		635	81	101	67	51	68	72	81	69	83	63	59	50	15	2	1497
HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)																	
Patents By Year of Grant:		208	39	59	85	74	93	81	84	91	133	110	138	95	108	95	1493
Patents By Year of Application:		405	145	123	114	112	109	79	97	77	76	73	53	27	2	1	1493
SMITHKLINE BEECHAM CORPORATION																	
Patents By Year of Grant:		790	194	115	69	41	72	64	57	59	10	1	2	0	0	0	1474
Patents By Year of Application:		1147	121	84	43	26	27	15	9	2	0	0	0	0	0	0	1474
SHARP KABUSHIKI KAISHA (SHARP CORPORATION)																	
Patents By Year of Grant:		409	95	78	56	47	52	61	50	66	82	75	84	88	79	71	1393
Patents By Year of Application:		601	85	77	82	84	73	56	72	62	85	77	32	5	2	0	1393

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	Pre	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
MINNESOTA MINING AND MANUFACTURING COMPANY																
Patents By Year of Grant:	1240	3	4	3	1	0	0	0	0	0	0	0	0	0	0	1251
Patents By Year of Application:	1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1251
JANSSEN PHARMACEUTICA N.V.																
Patents By Year of Grant:	175	33	23	16	18	45	57	65	104	125	110	115	141	131	92	1250
Patents By Year of Application:	271	32	62	56	104	108	139	92	89	94	62	50	52	39	0	1250
NGK INSULATORS LTD.																
Patents By Year of Grant:	302	74	66	58	44	56	53	59	67	81	78	68	95	70	76	1247
Patents By Year of Application:	470	101	79	74	44	44	57	78	98	50	61	44	30	16	1	1247
HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN (HENKEL KGAA)																
Patents By Year of Grant:	458	65	59	58	26	39	46	36	31	47	48	80	77	85	71	1226
Patents By Year of Application:	637	60	36	51	33	49	43	28	43	42	63	62	44	35	0	1226
MASSACHUSETTS INSTITUTE OF TECHNOLOGY																
Patents By Year of Grant:	297	43	41	52	55	55	51	52	49	59	61	89	112	95	115	1226
Patents By Year of Application:	476	66	66	58	73	71	51	60	79	59	60	54	39	13	1	1226
GM Global Technology Operations LLC																
Patents By Year of Grant:	0	0	0	0	0	1	4	20	66	158	174	154	233	190	166	1166
Patents By Year of Application:	0	5	13	59	113	132	124	145	123	179	141	86	38	7	1	1166
MOTOROLA, INC.																
Patents By Year of Grant:	826	121	85	52	21	22	10	12	2	6	0	0	0	0	0	1157
Patents By Year of Application:	1042	58	24	10	10	8	4	1	0	0	0	0	0	0	0	1157
HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.																
Patents By Year of Grant:	0	0	58	102	94	107	107	101	105	134	91	79	49	74	51	1152
Patents By Year of Application:	106	139	188	157	144	78	116	47	54	42	44	26	10	1	0	1152
LAM RESEARCH CORPORATION																
Patents By Year of Grant:	173	46	51	49	56	52	54	39	59	77	73	118	105	99	95	1146
Patents By Year of Application:	310	63	77	65	60	93	65	83	65	84	57	70	42	12	0	1146
SUMITOMO ELECTRIC INDUSTRIES, LTD.																
Patents By Year of Grant:	430	49	46	44	27	23	24	31	47	67	68	65	71	88	62	1142
Patents By Year of Application:	554	52	37	42	51	46	46	44	49	57	73	57	22	11	1	1142
TDK CORPORATION																
Patents By Year of Grant:	296	98	71	62	38	60	73	68	78	77	51	48	60	31	26	1137
Patents By Year of Application:	490	57	86	122	88	54	49	60	43	31	29	12	15	1	0	1137

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
SCHERING CORP.																
Patents By Year of Grant:	376	61	56	44	56	70	66	73	97	110	69	56	1	0	0	1135
Patents By Year of Application:	539	79	76	72	79	103	76	40	36	24	9	2	0	0	0	1135
MITSUI CHEMICALS, INCORPORATED																
Patents By Year of Grant:	330	99	65	67	56	39	39	28	34	52	53	73	74	60	60	1129
Patents By Year of Application:	539	90	66	52	57	60	54	56	43	44	30	28	7	3	0	1129
ASTRAZENECA AB																
Patents By Year of Grant:	41	71	73	69	83	97	91	99	82	109	102	85	48	40	33	1123
Patents By Year of Application:	281	168	140	90	65	71	72	55	48	52	30	23	17	9	2	1123
WYETH																
Patents By Year of Grant:	0	52	83	82	53	104	117	136	150	143	56	47	41	34	24	1122
Patents By Year of Application:	138	144	139	130	120	148	117	47	47	24	19	26	17	5	1	1122
AJINOMOTO COMPANY INCORPORATED																
Patents By Year of Grant:	286	64	46	64	44	59	78	63	57	72	70	61	62	39	49	1114
Patents By Year of Application:	464	93	43	74	69	63	51	63	53	42	28	39	20	12	0	1114
AKZO NOBEL NV																
Patents By Year of Grant:	510	89	105	70	54	45	28	18	17	33	30	32	28	28	11	1098
Patents By Year of Application:	763	94	55	34	28	26	30	21	19	10	6	8	4	0	0	1098
DOW CHEMICAL COMPANY																
Patents By Year of Grant:	885	115	42	25	10	8	5	0	2	0	1	0	0	0	0	1093
Patents By Year of Application:	1069	17	2	2	1	1	1	0	0	0	0	0	0	0	0	1093
SIEMENS AKTIENGESELLSCHAFT																
Patents By Year of Grant:	594	65	47	33	29	12	18	23	17	28	48	40	43	46	47	1090
Patents By Year of Application:	736	50	31	32	28	48	29	31	31	27	24	16	6	1	0	1090
MITSUBISHI CHEMICAL CORPORATION																
Patents By Year of Grant:	518	49	47	34	29	48	40	36	29	27	36	37	45	54	56	1085
Patents By Year of Application:	630	41	31	63	74	52	33	24	21	12	30	38	26	9	1	1085
FUJI XEROX CO., LTD.																
Patents By Year of Grant:	282	38	27	38	42	38	34	50	55	74	62	53	95	132	56	1076
Patents By Year of Application:	371	40	60	64	72	39	57	60	71	50	55	94	38	5	0	1076
STANFORD UNIVERSITY																
Patents By Year of Grant:	227	49	42	23	33	39	35	42	53	79	83	81	84	101	103	1074
Patents By Year of Application:	377	55	53	35	47	54	87	61	61	72	87	57	19	8	1	1074

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
DOW CORNING CORPORATION																	
Patents By Year of Grant:	520	50	40	44	11	16	10	20	23	43	46	54	54	69	65	1065	
Patents By Year of Application:	615	49	29	44	46	33	51	31	44	40	36	25	15	5	2	1065	
EXXONMOBIL RESEARCH AND ENGINEERING COMPANY																	
Patents By Year of Grant:	26	53	91	86	36	34	48	45	56	81	84	83	118	122	93	1056	
Patents By Year of Application:	218	73	64	56	80	55	81	81	72	72	91	68	38	7	0	1056	
AIR PRODUCTS AND CHEMICALS, INC.																	
Patents By Year of Grant:	354	47	61	47	37	45	40	49	38	46	47	65	69	60	43	1048	
Patents By Year of Application:	455	71	72	58	50	49	49	60	36	47	36	35	22	7	1	1048	
AMGEN, INC.																	
Patents By Year of Grant:	194	26	27	22	37	59	47	58	66	98	106	80	85	76	53	1034	
Patents By Year of Application:	323	45	50	51	73	69	72	92	55	55	67	47	20	15	0	1034	
PPG INDUSTRIES OHIO INC.																	
Patents By Year of Grant:	232	54	66	55	44	49	37	69	43	73	67	64	52	72	51	1028	
Patents By Year of Application:	382	62	83	75	61	73	60	60	38	40	36	34	16	8	0	1028	
BOEING COMPANY																	
Patents By Year of Grant:	167	20	31	41	32	27	25	31	44	70	84	82	101	131	135	1021	
Patents By Year of Application:	234	48	61	37	63	57	83	75	83	77	69	70	51	11	2	1021	
CALIFORNIA INSTITUTE OF TECHNOLOGY																	
Patents By Year of Grant:	229	49	56	62	36	41	52	40	39	58	45	55	72	83	98	1015	
Patents By Year of Application:	435	58	39	45	44	35	61	47	35	49	67	42	44	13	1	1015	
ISIS PHARMACEUTICALS, INC.																	
Patents By Year of Grant:	407	110	65	55	45	26	29	18	17	38	30	44	34	43	45	1006	
Patents By Year of Application:	650	68	30	38	21	21	29	25	22	24	28	26	13	10	1	1006	
INSTITUT FRANCAIS DU PETROLE																	
Patents By Year of Grant:	487	87	75	53	35	32	68	44	54	52	7	2	2	1	0	999	
Patents By Year of Application:	713	60	47	49	43	50	22	11	3	1	0	0	0	0	0	999	
BASF CORPORATION																	
Patents By Year of Grant:	460	79	52	39	37	25	21	19	18	34	35	42	42	49	41	993	
Patents By Year of Application:	617	48	30	36	33	35	25	30	34	31	24	25	10	8	7	993	
BRIDGESTONE CORPORATION																	
Patents By Year of Grant:	272	72	51	47	26	27	26	35	39	59	66	53	61	71	87	992	
Patents By Year of Application:	438	51	48	41	55	56	57	52	50	52	34	44	12	2	0	992	

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
NOVO NORDISK A/S																
Patents By Year of Grant:	646	34	35	16	22	14	15	14	12	10	25	21	36	50	35	985
Patents By Year of Application:	743	30	22	5	23	28	21	21	22	17	21	16	12	3	1	985
TORAY INDUSTRIES INC.																
Patents By Year of Grant:	295	58	49	40	26	24	19	27	23	37	50	72	70	82	112	984
Patents By Year of Application:	436	55	43	35	39	48	46	51	50	54	61	44	18	4	0	984
CHEVRON U.S.A. INC.																
Patents By Year of Grant:	102	30	49	61	37	42	36	37	46	78	99	79	94	95	89	974
Patents By Year of Application:	213	56	53	51	58	37	59	100	71	89	78	56	37	14	2	974
SHOWA DENKO KABUSHIKI KAISHA																
Patents By Year of Grant:	197	57	52	65	38	65	30	30	53	66	67	61	64	60	57	962
Patents By Year of Application:	355	88	69	63	53	54	48	61	58	47	35	16	8	7	0	962
FREESCALE SEMICONDUCTOR, INC.																
Patents By Year of Grant:	0	0	0	37	77	72	100	91	104	129	95	63	57	68	68	961
Patents By Year of Application:	11	49	76	95	150	138	117	68	40	43	52	46	49	26	1	961
NESTEC, S.A.																
Patents By Year of Grant:	370	48	62	39	32	25	29	11	18	33	28	41	80	75	62	953
Patents By Year of Application:	531	49	38	37	30	37	34	31	56	50	26	15	15	3	1	953
HYUNDAI ELECTRONICS INDUSTRIES CO., LTD.																
Patents By Year of Grant:	614	200	84	34	11	6	0	0	0	0	0	0	0	0	0	949
Patents By Year of Application:	901	28	17	2	1	0	0	0	0	0	0	0	0	0	0	949
DAI NIPPON PRINTING CO. LTD																
Patents By Year of Grant:	301	44	42	55	36	47	41	42	54	53	57	47	41	44	41	945
Patents By Year of Application:	434	70	62	56	73	57	45	39	24	29	24	21	9	2	0	945
JOHNS HOPKINS UNIVERSITY																
Patents By Year of Grant:	309	59	38	45	28	33	22	41	33	43	48	49	48	73	72	941
Patents By Year of Application:	486	46	48	46	28	34	52	42	35	39	41	26	12	6	0	941
COLGATE-PALMOLIVE COMPANY																
Patents By Year of Grant:	505	106	80	28	15	14	11	11	7	12	14	18	30	49	39	939
Patents By Year of Application:	610	92	48	18	15	18	24	17	23	36	19	7	10	2	0	939
GOODYEAR TIRE + RUBBER COMPANY																
Patents By Year of Grant:	362	71	72	67	42	62	42	32	25	36	25	17	28	16	29	926
Patents By Year of Application:	526	72	67	48	46	35	21	22	16	17	22	17	14	3	0	926

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	Pre																
	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL	
NIPPON SHOKUBAI CO., LTD.																	
Patents By Year of Grant:	273	94	83	63	41	43	47	39	26	41	27	23	36	44	37	917	
Patents By Year of Application:	488	79	64	56	34	43	35	27	26	40	16	4	4	1	0	917	
UNIVERSITY OF PENNSYLVANIA																	
Patents By Year of Grant:	263	37	24	25	35	36	32	34	30	67	43	62	67	84	78	917	
Patents By Year of Application:	388	46	54	44	53	54	48	46	47	47	35	25	19	10	1	917	
DEGUSSA AKTIENGESELLSCHAFT																	
Patents By Year of Grant:	248	84	100	115	85	87	65	48	42	21	1	0	0	1	0	897	
Patents By Year of Application:	520	135	107	65	45	19	2	3	1	0	0	0	0	0	0	897	
COMMISSARIAT A L'ENERGIE ATOMIQUE																	
Patents By Year of Grant:	159	35	41	32	30	36	39	30	55	97	111	106	67	38	20	896	
Patents By Year of Application:	277	77	65	61	70	78	83	91	57	22	9	2	2	2	0	896	
MERCK SHARP & DOHME CORP.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	99	114	126	221	170	141	871	
Patents By Year of Application:	2	1	2	24	44	86	77	98	155	133	103	113	21	11	1	871	
KANEKA CORPORATION																	
Patents By Year of Grant:	146	72	60	51	28	58	50	51	26	59	55	41	51	58	59	865	
Patents By Year of Application:	333	96	65	49	75	40	48	33	24	27	38	22	11	3	1	865	
BOEHRINGER INGELHEIM INTERNATIONAL GMBH																	
Patents By Year of Grant:	42	6	5	13	7	15	42	38	66	76	58	73	114	169	125	849	
Patents By Year of Application:	68	6	16	47	89	56	71	73	96	73	86	63	66	37	2	849	
GLOBALFOUNDRIES Inc.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	7	53	72	90	178	251	196	847	
Patents By Year of Application:	1	2	1	8	9	15	39	37	65	128	150	179	155	53	5	847	
UNITED STATES OF AMERICA, ARMY																	
Patents By Year of Grant:	228	46	49	46	43	56	51	33	31	54	48	39	36	45	38	843	
Patents By Year of Application:	370	68	59	49	46	48	23	35	38	29	32	21	17	7	1	843	
VERTEX PHARMACEUTICALS, INC.																	
Patents By Year of Grant:	83	13	40	24	17	24	33	44	46	75	65	96	123	105	52	840	
Patents By Year of Application:	154	41	54	54	40	60	46	48	56	78	56	79	53	21	0	840	
UNIVERSITY OF MICHIGAN																	
Patents By Year of Grant:	214	32	31	33	44	46	29	50	35	58	41	49	48	67	61	838	
Patents By Year of Application:	342	55	50	37	41	45	39	42	44	50	38	30	14	11	0	838	

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
AGFA-GEVAERT N.V.																
Patents By Year of Grant:	544	67	52	40	29	32	20	9	2	1	8	3	6	4	3	820
Patents By Year of Application:	666	48	44	23	12	2	8	2	4	5	4	2	0	0	0	820
IDEMITSU KOSAN COMPANY LIMITED																
Patents By Year of Grant:	176	28	26	23	19	28	24	34	38	59	81	54	88	77	54	809
Patents By Year of Application:	244	49	45	41	70	64	64	65	48	36	40	35	4	4	0	809
MITSUBISHI GAS-CHEMICAL COMPANY, INC.																
Patents By Year of Grant:	254	41	43	35	25	44	37	29	27	24	35	39	44	59	73	809
Patents By Year of Application:	342	53	45	55	34	36	59	29	30	40	42	29	12	3	0	809
GENERAL HOSPITAL CORPORATION																
Patents By Year of Grant:	293	40	45	31	30	39	33	30	24	30	28	46	42	51	41	803
Patents By Year of Application:	467	27	33	38	25	22	31	26	35	38	19	27	13	2	0	803
BAYER CORPORATION																
Patents By Year of Grant:	612	101	49	15	11	6	4	1	1	1	0	0	1	0	0	802
Patents By Year of Application:	770	25	3	2	1	0	0	1	0	0	0	0	0	0	0	802
KONICA CORPORATION																
Patents By Year of Grant:	465	83	61	65	39	38	16	15	4	2	1	0	0	0	0	789
Patents By Year of Application:	606	81	78	8	6	8	2	0	0	0	0	0	0	0	0	789
DAIKIN INDUSTRIES LIMITED																
Patents By Year of Grant:	225	54	41	58	37	24	30	26	27	49	37	44	46	45	45	788
Patents By Year of Application:	367	74	37	44	39	23	38	41	45	29	32	10	8	1	0	788
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	292	35	49	30	23	29	21	27	16	26	43	39	46	57	43	776
Patents By Year of Application:	406	35	32	25	25	24	35	34	32	34	37	38	14	5	0	776
MILLENNIUM PHARMACEUTICALS, INC.																
Patents By Year of Grant:	175	89	77	49	46	53	41	35	31	40	34	27	25	26	24	772
Patents By Year of Application:	429	60	41	24	31	32	31	22	19	26	28	14	11	4	0	772
WARNER-LAMBERT COMPANY																
Patents By Year of Grant:	410	60	59	57	62	53	31	13	2	6	2	0	4	3	3	765
Patents By Year of Application:	552	79	58	40	14	10	3	0	0	1	2	0	3	3	0	765
HARVARD COLLEGE, PRESIDENT AND FELLOWS																
Patents By Year of Grant:	187	44	38	33	22	28	34	32	29	38	39	39	50	60	86	759
Patents By Year of Application:	331	39	31	31	31	45	27	37	50	37	43	22	23	12	0	759

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	Pre															
	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS																
Patents By Year of Grant:	93	20	32	17	26	31	29	28	41	53	62	63	83	71	107	756
Patents By Year of Application:	201	54	47	60	44	49	43	53	74	72	35	20	3	1	0	756
MURATA MANUFACTURING CO., LTD.																
Patents By Year of Grant:	237	100	76	56	27	21	20	22	27	28	18	21	33	29	29	744
Patents By Year of Application:	427	52	42	30	8	12	31	27	20	22	24	32	14	3	0	744
WACKER-CHEMIE GMBH																
Patents By Year of Grant:	233	31	28	20	12	31	14	27	30	46	53	52	50	66	48	741
Patents By Year of Application:	296	23	39	38	40	47	47	42	39	37	47	30	13	3	0	741
DSM IP ASSETS B.V.																
Patents By Year of Grant:	0	0	1	17	38	43	34	53	46	61	58	87	85	101	110	734
Patents By Year of Application:	46	71	78	68	58	55	62	52	47	69	48	47	30	3	0	734
COLUMBIA UNIVERSITY																
Patents By Year of Grant:	196	35	42	36	34	36	27	30	18	37	38	49	47	49	55	729
Patents By Year of Application:	359	31	35	36	32	31	37	29	29	38	28	21	20	3	0	729
RENESAS TECHNOLOGY CORPORATION																
Patents By Year of Grant:	0	0	9	190	116	89	90	81	94	59	0	0	0	0	0	728
Patents By Year of Application:	76	147	144	110	68	72	74	32	4	1	0	0	0	0	0	728
MACRONIX INTERNATIONAL CO., LTD.																
Patents By Year of Grant:	33	74	104	88	42	34	35	32	51	45	57	39	32	29	28	723
Patents By Year of Application:	176	109	75	46	35	70	50	30	26	38	19	16	20	12	1	723
NISSAN MOTOR COMPANY, LIMITED																
Patents By Year of Grant:	83	21	33	29	41	39	43	38	43	63	44	48	58	73	60	716
Patents By Year of Application:	175	62	76	63	58	49	47	47	33	35	38	20	11	1	1	716
HOYA CORPORATION																
Patents By Year of Grant:	100	27	31	44	25	30	33	30	35	56	56	50	69	74	48	708
Patents By Year of Application:	182	51	52	47	43	41	38	30	59	47	46	53	13	6	0	708
ZENECA LIMITED																
Patents By Year of Grant:	650	33	10	8	4	0	1	0	0	0	0	0	0	0	0	706
Patents By Year of Application:	699	5	2	0	0	0	0	0	0	0	0	0	0	0	0	706
SYNGENTA PARTICIPATIONS AG																
Patents By Year of Grant:	26	16	26	22	8	33	35	50	30	62	37	55	75	93	137	705
Patents By Year of Application:	90	29	20	14	32	56	51	51	66	53	58	95	65	25	0	705

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
CHARTERED SEMICONDUCTOR MANUFACTURING LTD.																
Patents By Year of Grant:	272	115	75	54	36	38	27	18	19	27	18	0	0	0	0	699
Patents By Year of Application:	448	81	48	32	32	25	14	16	2	1	0	0	0	0	0	699
HUMAN GENOME SCIENCES, INC.																
Patents By Year of Grant:	185	86	84	47	59	58	38	41	29	18	21	21	4	1	7	699
Patents By Year of Application:	449	72	31	40	27	19	18	15	9	8	5	3	2	0	1	699
ROBERT BOSCH GMBH																
Patents By Year of Grant:	149	32	46	54	35	28	28	23	31	33	28	41	53	54	60	695
Patents By Year of Application:	278	71	48	35	26	24	27	37	44	24	35	25	18	3	0	695
KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)																
Patents By Year of Grant:	154	28	37	28	14	18	25	28	33	39	47	72	70	32	63	688
Patents By Year of Application:	226	39	31	36	38	48	54	59	58	31	39	18	11	0	0	688
CORNELL RESEARCH FOUNDATION INC.																
Patents By Year of Grant:	239	26	40	32	29	45	34	33	29	53	41	23	27	14	20	685
Patents By Year of Application:	366	48	34	35	50	44	31	24	14	14	7	6	8	4	0	685
UNILEVER HOME & PERSONAL CARE USA, DIVISION OF CONOPCO, INC.																
Patents By Year of Grant:	97	128	118	104	70	61	32	32	15	13	6	3	2	0	1	682
Patents By Year of Application:	379	134	94	51	14	0	4	2	0	1	1	2	0	0	0	682
TOKYO OHKA KOGYO CO., LTD.																
Patents By Year of Grant:	146	19	24	30	16	17	16	25	30	50	60	71	59	45	70	678
Patents By Year of Application:	194	35	20	48	50	48	40	35	46	47	31	41	33	10	0	678
SCRIPPS RESEARCH INSTITUTE																
Patents By Year of Grant:	241	32	26	19	28	40	30	42	32	33	28	32	31	27	29	670
Patents By Year of Application:	367	30	30	36	35	32	39	17	20	14	19	20	8	2	1	670
BAXTER INTERNATIONAL INC.																
Patents By Year of Grant:	217	26	30	18	19	29	16	17	6	20	58	44	56	64	47	667
Patents By Year of Application:	309	26	25	19	24	7	31	49	30	32	63	25	25	2	0	667
NOVELLUS SYSTEMS, INC.																
Patents By Year of Grant:	65	23	38	40	35	30	55	39	40	52	60	53	52	48	37	667
Patents By Year of Application:	150	59	42	57	45	45	52	42	49	36	30	35	24	1	0	667
HENKEL CORPORATION																
Patents By Year of Grant:	411	38	15	26	30	20	16	16	13	21	13	30	14	1	0	664
Patents By Year of Application:	484	38	34	18	16	19	13	12	8	8	12	0	2	0	0	664

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
TAKEDA CHEMICAL INDUSTRIES LTD.																	
Patents By Year of Grant:		482	63	45	38	18	10	2	3	1	0	0	0	0	0	0	662
Patents By Year of Application:		605	44	9	2	1	1	0	0	0	0	0	0	0	0	0	662
BAYER CROPSCIENCE AG																	
Patents By Year of Grant:		0	0	0	4	8	26	33	30	36	55	82	122	115	106	43	660
Patents By Year of Application:		17	37	49	45	50	69	72	60	58	85	69	25	21	3	0	660
DENSO CORPORATION																	
Patents By Year of Grant:		126	37	50	45	39	46	32	42	39	57	33	31	20	33	30	660
Patents By Year of Application:		239	56	61	40	33	42	43	41	27	19	25	21	11	2	0	660
SEAGATE TECHNOLOGY, LLC																	
Patents By Year of Grant:		128	42	65	71	39	29	24	25	16	30	31	41	41	42	35	659
Patents By Year of Application:		279	49	64	41	21	21	16	33	32	31	25	26	17	3	1	659
LUCENT TECHNOLOGIES INC.																	
Patents By Year of Grant:		549	23	28	17	10	6	8	12	0	1	0	0	0	0	0	654
Patents By Year of Application:		610	21	7	6	6	4	0	0	0	0	0	0	0	0	0	654
BECTON, DICKINSON AND COMPANY																	
Patents By Year of Grant:		336	26	22	18	19	15	17	20	23	33	23	16	24	30	29	651
Patents By Year of Application:		412	29	24	28	14	21	17	19	26	15	15	8	19	4	0	651
KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY																	
Patents By Year of Grant:		157	32	24	42	22	30	21	13	24	31	29	40	41	73	71	650
Patents By Year of Application:		228	52	29	28	17	34	32	31	43	37	38	37	39	5	0	650
Evonik Degussa GmbH																	
Patents By Year of Grant:		0	0	0	0	0	0	0	11	30	77	94	88	106	131	110	647
Patents By Year of Application:		1	10	22	32	57	74	69	72	71	88	76	48	14	10	3	647
Samsung Display Co., Ltd.																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	0	0	28	176	214	221	639
Patents By Year of Application:		0	0	1	4	6	10	13	8	41	108	141	117	144	42	4	639
NOVOZYMES A/S																	
Patents By Year of Grant:		46	49	59	27	20	26	41	19	24	34	59	57	70	61	46	638
Patents By Year of Application:		202	35	32	34	27	21	28	42	42	52	44	44	29	5	1	638
DOW AGROSCIENCES LLC																	
Patents By Year of Grant:		54	25	12	15	8	8	8	16	22	44	42	65	71	112	127	629
Patents By Year of Application:		96	16	15	21	20	17	34	34	48	72	77	56	78	39	6	629

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
HALLIBURTON ENERGY SERVICES, INC.																
Patents By Year of Grant:	43	16	32	22	24	30	40	41	55	63	57	34	70	57	40	624
Patents By Year of Application:	82	46	43	53	75	55	47	23	53	28	22	68	26	3	0	624
DONGBU ELECTRONICS CO., LTD.																
Patents By Year of Grant:	4	7	7	20	15	54	150	154	139	63	7	2	0	0	0	622
Patents By Year of Application:	12	23	53	186	194	126	12	6	10	0	0	0	0	0	0	622
JSR CORPORATION																
Patents By Year of Grant:	74	39	41	49	34	48	35	29	26	21	27	37	49	53	60	622
Patents By Year of Application:	175	71	53	44	38	31	29	28	14	26	38	36	29	10	0	622
ZYMOGENETICS, INC.																
Patents By Year of Grant:	160	36	30	25	25	33	33	28	73	49	35	35	27	21	12	622
Patents By Year of Application:	263	31	33	22	19	88	27	24	33	23	26	15	16	2	0	622
LG Display Co., Ltd.																
Patents By Year of Grant:	0	0	0	0	0	0	0	41	82	114	102	70	83	70	58	620
Patents By Year of Application:	4	8	15	34	82	102	66	39	76	68	56	32	19	16	3	620
EXXON CHEMICALS PATENTS INC.																
Patents By Year of Grant:	607	5	4	2	0	0	1	0	0	0	0	0	0	0	0	619
Patents By Year of Application:	619	0	0	0	0	0	0	0	0	0	0	0	0	0	0	619
AGILENT TECHNOLOGIES, INC.																
Patents By Year of Grant:	71	42	39	53	61	64	45	40	38	25	33	26	17	30	30	614
Patents By Year of Application:	231	87	73	36	41	41	24	15	18	16	12	13	7	0	0	614
Renesas Electronics Corp.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	30	162	144	142	77	58	613
Patents By Year of Application:	0	1	0	0	5	11	32	48	106	139	113	83	49	25	1	613
HITACHI CHEMICAL COMPANY, LTD.																
Patents By Year of Grant:	154	22	14	21	18	17	27	15	33	46	54	42	52	46	41	602
Patents By Year of Application:	217	29	22	41	40	40	48	36	31	33	34	17	11	2	1	602
MICHIGAN STATE UNIVERSITY																
Patents By Year of Grant:	219	40	44	25	17	26	29	37	32	34	23	21	16	20	16	599
Patents By Year of Application:	323	31	32	33	34	47	16	29	16	14	10	12	2	0	0	599
INSTITUT PASTEUR																
Patents By Year of Grant:	227	29	36	26	19	33	24	30	24	37	22	18	30	25	17	597
Patents By Year of Application:	360	25	31	28	32	33	19	20	12	12	14	6	4	1	0	597

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
LSI LOGIC CORPORATION																	
Patents By Year of Grant:	292	58	73	59	53	38	9	9	3	0	2	0	0	0	0	0	596
Patents By Year of Application:	443	62	63	18	6	0	1	1	1	1	0	0	0	0	0	0	596
PHILLIPS PETROLEUM COMPANY																	
Patents By Year of Grant:	436	69	45	15	9	11	3	2	1	0	0	0	0	0	0	0	591
Patents By Year of Application:	553	14	18	4	2	0	0	0	0	0	0	0	0	0	0	0	591
UNIVERSITY OF ILLINOIS																	
Patents By Year of Grant:	75	18	25	30	21	28	26	25	39	48	57	48	52	48	45	0	585
Patents By Year of Application:	150	36	44	27	43	39	49	46	36	28	37	26	16	8	0	0	585
AMERICAN CYANAMID COMPANY																	
Patents By Year of Grant:	537	31	10	3	1	0	0	0	0	0	0	0	1	0	0	0	583
Patents By Year of Application:	582	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	583
NIPPON STEEL CORP.																	
Patents By Year of Grant:	223	42	44	27	27	17	11	17	19	50	49	48	6	0	0	0	580
Patents By Year of Application:	334	49	46	29	15	23	38	16	18	9	3	0	0	0	0	0	580
OKI ELECTRIC INDUSTRY CO., LTD.																	
Patents By Year of Grant:	110	64	70	88	74	60	56	49	4	3	0	2	0	0	0	0	580
Patents By Year of Application:	249	105	85	55	48	26	6	3	1	1	1	0	0	0	0	0	580
ASAHI KASEI KOGYO KABUSHIKI KAISHA																	
Patents By Year of Grant:	267	72	52	48	35	30	27	4	14	8	3	8	2	7	1	0	578
Patents By Year of Application:	425	79	35	4	14	5	6	4	2	0	0	4	0	0	0	0	578
KURARAY CO., LTD.																	
Patents By Year of Grant:	170	39	31	37	28	34	13	19	19	28	31	39	28	29	31	0	576
Patents By Year of Application:	264	45	50	35	23	30	31	21	26	20	18	9	4	0	0	0	576
CHIRON CORPORATION																	
Patents By Year of Grant:	350	52	38	37	26	38	21	8	0	1	0	0	0	0	0	0	571
Patents By Year of Application:	490	32	28	15	3	1	2	0	0	0	0	0	0	0	0	0	571
NORTHWESTERN UNIVERSITY																	
Patents By Year of Grant:	114	23	17	13	10	12	16	20	27	42	47	54	53	60	61	0	569
Patents By Year of Application:	160	25	27	25	29	21	36	44	40	43	41	37	28	12	1	0	569
BATTELLE MEMORIAL INSTITUTE																	
Patents By Year of Grant:	119	24	45	40	24	32	17	19	28	36	33	36	32	47	36	0	568
Patents By Year of Application:	231	36	45	25	25	29	23	26	36	23	24	24	15	5	1	0	568

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
UNITED TECHNOLOGIES CORPORATION																
Patents By Year of Grant:	178	14	18	15	14	11	12	24	22	38	49	40	51	48	33	567
Patents By Year of Application:	214	19	18	31	35	55	32	37	34	33	32	23	2	2	0	567
DAICEL CHEMICAL INDUSTRIES LTD.																
Patents By Year of Grant:	243	56	43	29	34	26	22	15	11	39	17	13	10	6	2	566
Patents By Year of Application:	369	37	36	24	28	18	16	8	20	8	2	0	0	0	0	566
ROCHE DIAGNOSTICS OPERATIONS, INC.																
Patents By Year of Grant:	0	0	0	6	11	16	29	24	49	71	76	71	89	70	49	561
Patents By Year of Application:	21	22	32	50	49	47	40	61	59	48	52	46	27	6	1	561
G. D. SEARLE & CO.																
Patents By Year of Grant:	358	74	46	27	17	23	10	2	1	1	0	0	0	0	0	559
Patents By Year of Application:	482	38	19	9	5	5	1	0	0	0	0	0	0	0	0	559
TAKEDA PHARMACEUTICAL COMPANY LIMITED																
Patents By Year of Grant:	0	0	0	0	10	42	44	36	46	53	56	69	63	72	65	556
Patents By Year of Application:	48	37	47	45	43	38	43	48	47	45	46	31	24	12	2	556
INCYTE PHARMACEUTICALS, INC.																
Patents By Year of Grant:	550	2	0	0	1	0	0	0	0	1	0	0	0	0	0	554
Patents By Year of Application:	553	0	0	0	0	0	0	1	0	0	0	0	0	0	0	554
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK																
Patents By Year of Grant:	175	38	16	22	13	30	22	23	30	45	19	22	30	36	32	553
Patents By Year of Application:	255	27	26	35	30	33	29	25	23	25	23	11	8	3	0	553
MITSUBISHI HEAVY INDUSTRIES, LTD.																
Patents By Year of Grant:	86	27	47	20	27	14	17	21	19	21	38	30	62	73	50	552
Patents By Year of Application:	170	43	31	28	17	27	27	35	64	30	40	26	13	1	0	552
JAPAN SCIENCE AND TECHNOLOGY AGENCY																
Patents By Year of Grant:	0	0	0	14	18	33	54	65	50	92	65	39	46	42	31	549
Patents By Year of Application:	35	68	92	72	72	51	33	25	40	25	17	12	6	1	0	549
NATIONAL SEMICONDUCTOR CORPORATION																
Patents By Year of Grant:	202	41	23	25	21	25	34	26	30	42	30	21	13	12	3	548
Patents By Year of Application:	269	28	24	53	37	32	36	12	23	14	12	4	3	1	0	548
GLAXO GROUP LIMITED																
Patents By Year of Grant:	106	3	5	1	8	14	48	39	68	60	40	58	33	29	34	546
Patents By Year of Application:	127	38	49	46	35	53	47	36	29	32	26	17	3	7	1	546

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
MILLIKEN & COMPANY																	
Patents By Year of Grant:		86	57	72	49	44	36	19	22	23	31	23	27	16	19	19	543
Patents By Year of Application:		239	52	64	23	17	26	15	20	22	20	22	10	8	4	1	543
SANOFI, S.A.																	
Patents By Year of Grant:		160	1	0	0	0	0	0	0	0	0	0	48	130	128	74	541
Patents By Year of Application:		161	0	0	0	0	0	10	19	65	93	64	87	31	10	1	541
SANDIA CORPORATION																	
Patents By Year of Grant:		141	32	30	23	15	14	26	27	32	30	19	30	42	41	36	538
Patents By Year of Application:		213	33	23	30	22	25	28	28	28	37	20	26	20	4	1	538
STINE SEED FARM, INC.																	
Patents By Year of Grant:		79	6	26	37	41	61	54	31	33	28	64	77	0	1	0	538
Patents By Year of Application:		110	48	60	28	28	46	59	36	44	57	22	0	0	0	0	538
STATS CHIPPAK LTD.																	
Patents By Year of Grant:		0	0	0	0	2	1	2	13	19	68	93	115	105	78	38	534
Patents By Year of Application:		0	0	0	4	19	50	47	84	77	102	95	35	19	2	0	534
SABIC Innovative Plastics, IP BV																	
Patents By Year of Grant:		0	0	0	0	0	0	2	28	89	115	76	77	78	64	3	532
Patents By Year of Application:		2	2	6	34	57	73	109	98	28	35	46	31	10	1	0	532
CHISSO CORPORATION																	
Patents By Year of Grant:		253	47	40	23	10	18	12	28	35	39	20	3	0	0	0	528
Patents By Year of Application:		350	24	23	9	24	30	32	22	12	1	1	0	0	0	0	528
CIBA-GEIGY CORPORATION																	
Patents By Year of Grant:		520	2	0	0	0	0	0	0	0	0	0	0	0	0	0	522
Patents By Year of Application:		522	0	0	0	0	0	0	0	0	0	0	0	0	0	0	522
DUKE UNIVERSITY																	
Patents By Year of Grant:		135	25	23	16	21	40	20	19	19	34	26	37	33	32	38	518
Patents By Year of Application:		225	35	32	16	19	29	31	25	25	23	27	16	13	2	0	518
EXXON RESEARCH + ENGINEERING CO.																	
Patents By Year of Grant:		506	8	1	1	0	0	0	0	0	0	0	0	0	0	0	516
Patents By Year of Application:		516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	516
UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED																	
Patents By Year of Grant:		100	18	15	13	16	30	34	19	30	25	28	26	59	47	56	516
Patents By Year of Application:		149	25	42	42	27	38	18	41	37	31	23	17	19	6	1	516

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
NISSAN CHEMICAL INDUSTRIES, LTD.																
Patents By Year of Grant:	149	23	15	12	12	13	10	13	24	37	30	29	37	51	59	514
Patents By Year of Application:	187	30	28	26	27	28	24	34	23	32	30	21	19	5	0	514
GENERAL MOTORS CORPORATION																
Patents By Year of Grant:	148	30	37	50	65	52	54	53	20	3	0	0	0	0	0	512
Patents By Year of Application:	242	81	102	73	12	2	0	0	0	0	0	0	0	0	0	512
FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.																
Patents By Year of Grant:	130	35	36	26	18	19	11	19	16	25	31	30	28	37	50	511
Patents By Year of Application:	245	36	25	17	24	24	21	30	25	28	18	12	5	1	0	511
LG ELECTRONICS INC.																
Patents By Year of Grant:	76	26	20	15	12	19	29	21	28	49	38	28	28	42	80	511
Patents By Year of Application:	127	26	21	37	52	32	27	21	37	52	30	32	15	1	1	511
UBE INDUSTRIES LTD.																
Patents By Year of Grant:	134	26	40	20	23	14	27	11	16	30	31	29	39	37	34	511
Patents By Year of Application:	200	37	32	34	29	24	26	22	40	24	26	12	4	1	0	511
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:	180	34	29	9	16	15	13	13	10	17	15	46	40	44	29	510
Patents By Year of Application:	251	19	25	21	15	17	23	25	34	30	23	11	11	5	0	510
DELPHI TECHNOLOGIES, INC.																
Patents By Year of Grant:	30	59	73	92	45	47	38	21	29	28	14	13	8	4	5	506
Patents By Year of Application:	234	91	42	28	44	17	12	11	5	11	4	4	3	0	0	506
VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION																
Patents By Year of Grant:	408	48	15	8	3	3	1	0	0	4	5	3	2	3	2	505
Patents By Year of Application:	468	10	4	3	0	1	1	4	6	1	3	3	0	1	0	505
FINA TECHNOLOGY, INC.																
Patents By Year of Grant:	86	34	19	27	29	31	23	30	27	22	29	37	32	48	30	504
Patents By Year of Application:	148	36	38	26	39	21	27	42	23	16	40	18	25	5	0	504
TEIJIN LIMITED																
Patents By Year of Grant:	228	50	43	35	17	12	10	10	9	14	16	13	12	20	15	504
Patents By Year of Application:	344	40	21	16	9	5	8	21	10	5	9	7	5	2	2	504
CLARIANT FINANCE (BVI) LIMITED																
Patents By Year of Grant:	153	40	38	39	19	24	9	5	5	15	23	29	25	44	33	501
Patents By Year of Application:	252	53	16	8	9	8	31	37	38	23	16	4	5	1	0	501

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
LUBRIZOL CORPORATION																	
Patents By Year of Grant:		209	32	24	21	15	10	11	19	6	29	18	23	29	29	26	501
Patents By Year of Application:		271	42	29	15	18	22	14	15	13	34	13	7	7	1	0	501
SCHERING AKTIENGESELLSCHAFT																	
Patents By Year of Grant:		254	26	40	36	31	45	32	27	8	0	0	0	0	0	0	499
Patents By Year of Application:		366	42	39	23	17	12	0	0	0	0	0	0	0	0	0	499
UNIVERSITY OF SOUTH FLORIDA																	
Patents By Year of Grant:		60	13	7	18	9	18	14	20	25	48	52	36	63	63	52	498
Patents By Year of Application:		103	19	23	31	35	34	48	35	34	38	30	26	34	8	0	498
CABOT CORPORATION																	
Patents By Year of Grant:		135	48	30	22	31	31	26	16	29	36	24	15	16	17	19	495
Patents By Year of Application:		254	46	34	24	20	28	22	17	10	10	14	4	9	3	0	495
CHUGAI SEIYAKU KABUSHIKI KAISHA																	
Patents By Year of Grant:		94	26	35	28	24	24	21	16	18	47	53	30	29	25	25	495
Patents By Year of Application:		210	46	39	43	30	28	24	22	18	21	7	3	2	2	0	495
SMITHKLINE BEECHAM PLC																	
Patents By Year of Grant:		302	41	27	21	17	22	24	17	3	5	10	2	0	0	0	491
Patents By Year of Application:		392	53	18	8	2	9	7	1	1	0	0	0	0	0	0	491
PHARMACIA & UPJOHN COMPANY																	
Patents By Year of Grant:		193	56	66	53	48	30	13	14	3	6	6	0	1	0	0	489
Patents By Year of Application:		357	59	47	6	7	4	4	2	1	2	0	0	0	0	0	489
MONSANTO COMPANY, INC.																	
Patents By Year of Grant:		457	7	10	5	4	1	0	0	0	0	2	1	0	0	0	487
Patents By Year of Application:		479	4	1	0	0	0	0	0	2	1	0	0	0	0	0	487
CHEIL INDUSTRIES, INC.																	
Patents By Year of Grant:		12	6	7	3	5	4	2	9	15	36	56	66	97	77	87	482
Patents By Year of Application:		31	8	6	5	8	27	45	37	65	66	76	56	47	5	0	482
UNIVERSITY OF NORTH CAROLINA																	
Patents By Year of Grant:		165	17	23	13	16	15	18	17	15	32	20	21	39	32	39	482
Patents By Year of Application:		223	23	24	27	24	28	23	16	17	26	21	13	15	2	0	482
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																	
Patents By Year of Grant:		179	19	15	24	26	12	16	12	18	28	34	22	22	27	23	477
Patents By Year of Application:		228	31	20	33	17	16	28	25	17	24	13	12	11	2	0	477

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	Pre																
	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL	
RHODIA CHIMIE																	
Patents By Year of Grant:	105	69	58	36	33	27	29	11	19	27	17	11	8	3	4	457	
Patents By Year of Application:	263	69	38	26	27	19	5	4	3	1	2	0	0	0	0	457	
ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE																	
Patents By Year of Grant:	117	13	19	20	15	17	20	20	19	24	41	27	36	37	31	456	
Patents By Year of Application:	148	25	30	25	19	27	19	21	32	29	23	25	25	8	0	456	
GUARDIAN INDUSTRIES CORP.																	
Patents By Year of Grant:	22	29	33	31	22	25	13	10	29	30	31	43	54	49	32	453	
Patents By Year of Application:	94	30	35	31	28	30	35	24	26	34	30	30	14	11	1	453	
CHEVRON PHILLIPS CHEMICAL COMPANY LP																	
Patents By Year of Grant:	6	10	16	16	14	31	27	22	32	32	37	38	44	59	68	452	
Patents By Year of Application:	46	15	33	38	32	27	32	13	25	39	42	44	41	23	2	452	
NORTH CAROLINA STATE UNIVERSITY																	
Patents By Year of Grant:	99	22	33	36	24	23	20	32	25	27	32	30	23	10	16	452	
Patents By Year of Application:	187	41	29	28	20	30	16	24	22	15	18	14	7	1	0	452	
UNIVERSITY OF MARYLAND																	
Patents By Year of Grant:	105	16	19	15	11	21	16	19	20	29	32	36	29	40	43	451	
Patents By Year of Application:	168	16	19	26	27	37	31	28	31	24	16	17	8	3	0	451	
AVERY DENNISON CORPORATION																	
Patents By Year of Grant:	183	33	47	37	18	14	10	12	15	15	18	15	9	5	13	444	
Patents By Year of Application:	289	38	20	19	19	11	11	9	8	9	5	3	3	0	0	444	
CLARIANT GMBH																	
Patents By Year of Grant:	195	74	63	30	32	47	2	0	0	0	0	0	0	0	0	443	
Patents By Year of Application:	351	44	35	11	2	0	0	0	0	0	0	0	0	0	0	443	
Dongbu Hitek Co., Ltd.																	
Patents By Year of Grant:	0	0	0	0	0	0	3	15	82	164	110	52	4	10	1	441	
Patents By Year of Application:	0	0	1	3	3	76	141	121	83	1	0	5	7	0	0	441	
BAYER MATERIALSCIENCE AG																	
Patents By Year of Grant:	0	0	0	0	6	26	33	34	37	60	50	53	48	55	36	438	
Patents By Year of Application:	4	4	15	54	57	30	56	57	57	68	25	5	3	3	0	438	
SAMSUNG ELECTRO-MECHANICS CO., LTD.																	
Patents By Year of Grant:	23	8	14	16	13	19	15	23	41	59	49	52	36	32	35	435	
Patents By Year of Application:	41	18	21	22	25	47	51	51	58	28	24	25	20	4	0	435	

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
W. R. GRACE & CO.-CONN.																
Patents By Year of Grant:	238	28	22	18	23	11	8	8	5	10	15	14	9	15	10	434
Patents By Year of Application:	295	26	23	16	10	9	6	7	9	9	15	3	5	1	0	434
TSINGHUA UNIVERSITY																
Patents By Year of Grant:	0	1	0	1	1	7	7	2	15	36	28	51	77	110	97	433
Patents By Year of Application:	3	3	9	3	13	28	32	38	49	50	75	88	29	13	0	433
YEDA RESEARCH AND DEVELOPMENT CO., LTD.																
Patents By Year of Grant:	116	16	23	20	12	24	21	27	13	22	22	23	32	36	26	433
Patents By Year of Application:	211	25	16	26	18	24	19	14	21	16	16	12	6	8	1	433
RUTGERS UNIVERSITY																
Patents By Year of Grant:	98	25	14	17	14	24	19	21	8	16	17	23	33	54	48	431
Patents By Year of Application:	164	20	24	23	16	17	25	20	22	23	33	28	13	2	1	431
NAN YA TECHNOLOGY CORPORATION																
Patents By Year of Grant:	31	14	21	70	61	51	12	13	19	32	18	20	24	28	15	429
Patents By Year of Application:	56	48	107	43	15	13	29	26	7	9	40	18	7	11	0	429
UNIVERSITY OF UTAH RESEARCH FOUNDATION																
Patents By Year of Grant:	125	20	11	20	12	15	20	15	16	28	28	36	23	29	31	429
Patents By Year of Application:	192	16	15	27	32	7	27	23	27	21	15	15	8	4	0	429
SHARP LABORATORIES OF AMERICA, INC.																
Patents By Year of Grant:	46	30	56	46	33	49	48	38	16	18	11	11	5	9	11	427
Patents By Year of Application:	126	48	53	58	51	28	25	9	4	6	4	6	9	0	0	427
ACUSHNET COMPANY																
Patents By Year of Grant:	82	22	16	33	31	60	33	26	15	21	35	18	11	11	10	424
Patents By Year of Application:	132	37	54	56	29	19	11	35	16	17	11	5	2	0	0	424
NEW YORK UNIVERSITY																
Patents By Year of Grant:	97	15	13	19	9	20	24	15	21	32	23	26	21	47	41	423
Patents By Year of Application:	159	21	20	26	23	17	18	25	22	23	28	25	15	1	0	423
UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION																
Patents By Year of Grant:	280	41	24	7	6	4	4	7	5	1	6	12	10	10	5	422
Patents By Year of Application:	347	9	10	11	5	2	1	1	16	9	4	6	0	1	0	422
PENN STATE RESEARCH FOUNDATION, INC.																
Patents By Year of Grant:	118	34	30	21	22	16	19	16	15	28	18	20	19	23	21	420
Patents By Year of Application:	204	34	22	24	19	13	15	15	13	17	15	13	11	5	0	420

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Bayer Intellectual Property GmbH																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	0	0	28	78	98	215	419
Patents By Year of Application:		1	0	3	4	10	15	25	28	43	46	100	83	44	14	3	419
UNIVERSITY OF SOUTHERN CALIFORNIA																	
Patents By Year of Grant:		75	22	16	18	17	23	12	24	18	34	30	32	42	35	20	418
Patents By Year of Application:		142	23	31	20	21	19	29	28	25	32	21	20	7	0	0	418
ECOLAB INC.																	
Patents By Year of Grant:		106	37	46	35	23	31	20	28	33	34	13	4	1	3	0	414
Patents By Year of Application:		210	45	44	30	28	15	11	16	11	2	2	0	0	0	0	414
NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY																	
Patents By Year of Grant:		0	7	26	24	22	24	31	20	27	42	35	36	43	35	42	414
Patents By Year of Application:		52	53	50	30	33	21	39	34	43	23	21	10	5	0	0	414
TEVA PHARMACEUTICAL INDUSTRIES, LTD.																	
Patents By Year of Grant:		40	11	26	21	19	30	28	44	48	38	29	24	20	18	18	414
Patents By Year of Application:		86	34	38	37	35	52	32	25	17	15	18	12	6	6	1	414
ADVANCED CARDIOVASCULAR SYSTEMS, INC.																	
Patents By Year of Grant:		13	7	26	19	15	20	30	35	27	56	48	39	34	33	11	413
Patents By Year of Application:		69	42	45	49	37	49	21	27	21	26	15	7	5	0	0	413
UNIVERSITY OF MASSACHUSETTS																	
Patents By Year of Grant:		57	10	13	12	8	13	8	17	28	43	40	42	48	29	45	413
Patents By Year of Application:		93	18	19	36	33	19	18	43	30	43	21	18	18	3	1	413
SUMITOMO RUBBER INDUSTRIES, LTD.																	
Patents By Year of Grant:		98	17	30	24	16	20	17	18	11	24	21	27	20	29	40	412
Patents By Year of Application:		163	30	20	13	16	28	22	21	19	19	20	23	14	4	0	412
LUDWIG INSTITUTE FOR CANCER RESEARCH																	
Patents By Year of Grant:		211	38	21	24	6	19	9	15	12	13	14	9	8	4	8	411
Patents By Year of Application:		314	19	10	14	8	5	8	9	4	7	5	6	2	0	0	411
MEDTRONIC INC.																	
Patents By Year of Grant:		115	15	17	17	15	14	17	11	15	37	28	28	20	30	30	409
Patents By Year of Application:		156	23	31	34	17	20	17	18	32	16	24	13	8	0	0	409
MITSUBISHI RAYON CO., LTD.																	
Patents By Year of Grant:		95	25	31	22	22	16	9	16	18	22	22	23	22	30	35	408
Patents By Year of Application:		163	49	26	23	17	18	14	15	17	20	21	15	7	3	0	408

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
AMERICAN HOME PRODUCTS CORPORATION																
Patents By Year of Grant:	341	60	2	1	0	0	1	0	0	0	0	0	0	0	0	405
Patents By Year of Application:	403	2	0	0	0	0	0	0	0	0	0	0	0	0	0	405
LG SEMICON CO., LTD.																
Patents By Year of Grant:	384	14	4	1	1	0	0	0	0	0	0	0	0	0	0	404
Patents By Year of Application:	401	2	1	0	0	0	0	0	0	0	0	0	0	0	0	404
SOLVAY (SOCIETE ANONYME)																
Patents By Year of Grant:	128	23	20	22	13	18	12	6	14	26	24	21	31	22	24	404
Patents By Year of Application:	196	20	15	23	23	26	24	18	12	13	20	10	4	0	0	404
INTERMOLECULAR INC.																
Patents By Year of Grant:	0	0	0	0	0	0	1	0	2	6	30	31	92	147	94	403
Patents By Year of Application:	0	0	0	0	2	6	15	24	22	20	119	93	71	28	3	403
TOYO BOSEKI KABUSHIKI KAISHA T/A TOYOBO CO., LTD.																
Patents By Year of Grant:	148	22	29	20	18	15	16	14	21	20	23	17	15	17	8	403
Patents By Year of Application:	220	30	32	22	16	16	22	13	15	10	5	2	0	0	0	403
DSM N.V.																
Patents By Year of Grant:	244	59	58	31	7	3	0	0	0	0	0	0	0	0	0	402
Patents By Year of Application:	370	27	5	0	0	0	0	0	0	0	0	0	0	0	0	402
GILEAD SCIENCES, INC.																
Patents By Year of Grant:	75	17	11	10	8	7	8	19	8	12	25	43	53	51	55	402
Patents By Year of Application:	114	10	11	24	11	2	21	23	24	33	27	41	42	17	2	402
WASHINGTON UNIVERSITY																
Patents By Year of Grant:	178	16	16	12	12	12	10	13	9	20	19	20	23	21	21	402
Patents By Year of Application:	233	12	18	12	15	11	13	21	16	18	12	12	6	1	2	402
UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY																
Patents By Year of Grant:	167	23	23	20	8	10	12	6	13	17	12	23	29	18	18	399
Patents By Year of Application:	225	20	14	11	9	14	10	15	18	20	22	10	9	2	0	399
EBARA CORPORATION																
Patents By Year of Grant:	103	38	31	41	26	12	29	20	22	11	20	11	8	11	15	398
Patents By Year of Application:	213	40	26	34	15	8	11	13	6	7	7	8	9	1	0	398
UT-BATTELLE, LLC																
Patents By Year of Grant:	50	37	31	22	12	16	19	11	10	33	27	22	26	48	32	396
Patents By Year of Application:	123	33	25	15	27	15	24	17	15	32	22	30	13	5	0	396

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
CELANESE INTERNATIONAL CORPORATION																	
Patents By Year of Grant:		40	12	5	5	3	7	8	5	14	14	20	28	49	109	76	395
Patents By Year of Application:		59	11	5	10	8	8	18	18	9	36	96	85	20	12	0	395
KONINKLIJKE PHILIPS ELECTRONICS N.V.																	
Patents By Year of Grant:		5	47	79	61	27	32	13	13	16	22	31	29	17	0	3	395
Patents By Year of Application:		152	74	45	31	18	23	14	13	11	8	3	3	0	0	0	395
AU OPTRONICS CORP.																	
Patents By Year of Grant:		0	4	10	14	21	21	29	36	37	69	38	35	30	21	29	394
Patents By Year of Application:		11	11	38	24	38	49	44	39	29	32	29	25	17	7	1	394
FMC CORPORATION																	
Patents By Year of Grant:		223	26	14	14	10	5	4	3	9	15	14	21	9	10	16	393
Patents By Year of Application:		274	18	8	11	15	12	11	8	4	13	5	10	1	3	0	393
ADVANCED TECHNOLOGY MATERIALS, INC.																	
Patents By Year of Grant:		107	34	37	28	17	23	16	19	15	13	25	21	10	19	7	391
Patents By Year of Application:		199	37	27	18	13	13	18	12	12	16	16	8	1	1	0	391
KYOWA HAKKO KOGYO CO., LTD																	
Patents By Year of Grant:		204	27	31	21	24	26	28	17	12	0	1	0	0	0	0	391
Patents By Year of Application:		315	33	16	15	6	3	3	0	0	0	0	0	0	0	0	391
FUJI ELECTRIC CO., LTD.																	
Patents By Year of Grant:		160	7	18	22	13	14	5	3	0	0	9	27	33	37	42	390
Patents By Year of Application:		195	22	15	7	4	1	7	18	32	13	28	17	19	11	1	390
Arkema France																	
Patents By Year of Grant:		0	0	0	1	19	35	18	10	19	25	32	51	46	76	57	389
Patents By Year of Application:		21	21	22	32	27	27	37	30	58	48	25	25	12	4	0	389
Fujitsu Semiconductor Limited																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	46	100	64	81	69	29	389
Patents By Year of Application:		0	0	2	3	8	23	25	59	62	53	58	58	27	11	0	389
HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.																	
Patents By Year of Grant:		0	0	13	12	20	25	28	22	42	46	39	40	36	41	25	389
Patents By Year of Application:		17	16	38	44	57	29	39	37	29	21	27	16	13	3	3	389
AFFYMETRIX, INC.																	
Patents By Year of Grant:		96	38	34	28	27	21	15	23	5	16	22	21	14	22	6	388
Patents By Year of Application:		216	30	16	15	13	13	12	12	6	21	19	11	4	0	0	388

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
STMICROELECTRONICS S.R.L.																
Patents By Year of Grant:	68	51	34	25	15	18	14	15	15	19	31	21	21	23	17	387
Patents By Year of Application:	162	22	21	24	15	31	12	21	17	17	12	16	13	2	2	387
THERAVANCE, INC.																
Patents By Year of Grant:	0	6	13	11	18	23	25	32	43	46	44	56	53	17	0	387
Patents By Year of Application:	27	14	14	27	41	38	42	37	28	38	35	39	7	0	0	387
APPLERA CORPORATION																
Patents By Year of Grant:	3	26	58	82	62	58	49	42	4	0	0	1	0	0	0	385
Patents By Year of Application:	139	100	72	44	17	12	1	0	0	0	0	0	0	0	0	385
BRIGHAM AND WOMEN'S HOSPITAL, INC.																
Patents By Year of Grant:	110	21	25	27	18	20	14	10	15	23	19	21	25	19	17	384
Patents By Year of Application:	192	28	17	13	20	16	21	14	20	18	14	1	10	0	0	384
CARGILL, INC.																
Patents By Year of Grant:	113	25	22	19	13	16	15	11	18	16	21	26	22	23	24	384
Patents By Year of Application:	182	25	20	21	21	29	21	11	10	14	17	5	6	2	0	384
GEN-PROBE INCORPORATED																
Patents By Year of Grant:	130	5	17	9	10	17	14	18	20	25	26	22	24	24	21	382
Patents By Year of Application:	177	13	18	12	12	18	31	19	17	27	18	9	9	2	0	382
TOSOH CORPORATION																
Patents By Year of Grant:	139	25	21	18	23	19	14	10	18	15	11	10	15	24	20	382
Patents By Year of Application:	196	28	25	25	12	21	20	10	15	11	13	6	0	0	0	382
AVENTIS PHARMA SA																
Patents By Year of Grant:	38	76	55	29	36	28	23	10	24	19	17	10	7	6	3	381
Patents By Year of Application:	194	47	30	39	10	10	21	13	3	4	4	4	2	0	0	381
S.O.I. TEC SILICON ON INSULATOR TECHNOLOGIES S.A.																
Patents By Year of Grant:	0	2	1	4	23	33	35	30	36	29	28	47	53	33	25	379
Patents By Year of Application:	5	4	36	38	46	38	37	39	39	29	37	18	13	0	0	379
YALE UNIVERSITY																
Patents By Year of Grant:	123	24	25	15	17	16	12	6	20	24	26	16	16	20	19	379
Patents By Year of Application:	207	21	16	14	18	20	16	15	17	16	12	5	1	1	0	379
CONOPCO, INC.																
Patents By Year of Grant:	3	2	3	1	2	4	17	12	14	39	43	73	49	58	57	377
Patents By Year of Application:	10	4	8	19	39	39	39	45	47	46	39	32	8	2	0	377

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
HYUNDAI MOTOR COMPANY																	
Patents By Year of Grant:		30	8	6	7	7	9	5	5	7	23	16	32	55	76	91	377
Patents By Year of Application:		48	12	9	6	7	12	20	22	33	43	74	49	35	7	0	377
MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH																	
Patents By Year of Grant:		66	12	15	16	16	17	18	23	18	42	25	22	31	29	27	377
Patents By Year of Application:		122	28	19	17	19	29	25	25	22	19	15	20	12	3	2	377
CENTRAL GLASS COMPANY, LIMITED																	
Patents By Year of Grant:		86	25	17	14	7	18	11	18	16	13	18	23	19	44	47	376
Patents By Year of Application:		133	20	13	25	12	22	18	22	24	28	22	23	8	4	2	376
IMPERIAL CHEMICAL INDUSTRIES PLC																	
Patents By Year of Grant:		291	25	17	14	13	7	1	2	2	1	0	3	0	0	0	376
Patents By Year of Application:		343	22	3	2	3	2	0	0	1	0	0	0	0	0	0	376
JAPAN AS REPRESENTED BY DIRECTOR GENERAL OF AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY																	
Patents By Year of Grant:		286	33	30	10	5	7	2	0	0	1	0	0	0	0	0	374
Patents By Year of Application:		356	9	4	4	1	0	0	0	0	0	0	0	0	0	0	374
TOYODA GOSEI KABUSHIKI KAISHA																	
Patents By Year of Grant:		106	21	22	21	31	14	16	9	10	15	12	14	31	31	21	374
Patents By Year of Application:		153	38	28	18	9	15	15	16	18	18	20	9	14	3	0	374
YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM																	
Patents By Year of Grant:		127	16	18	14	14	27	13	9	12	17	22	19	18	21	27	374
Patents By Year of Application:		191	27	18	22	18	24	9	16	12	13	13	4	5	2	0	374
GENENCOR INTERNATIONAL, INC.																	
Patents By Year of Grant:		129	30	40	22	25	31	26	42	20	6	1	1	0	0	0	373
Patents By Year of Application:		239	31	25	39	14	11	10	4	0	0	0	0	0	0	0	373
LG. PHILIPS LCD CO., LTD.																	
Patents By Year of Grant:		26	42	51	52	39	59	57	46	1	0	0	0	0	0	0	373
Patents By Year of Application:		140	69	56	70	33	4	1	0	0	0	0	0	0	0	0	373
ROCKEFELLER UNIVERSITY																	
Patents By Year of Grant:		164	31	11	14	5	18	3	17	17	10	14	15	18	14	21	372
Patents By Year of Application:		239	16	5	14	11	15	7	5	11	15	9	12	8	5	0	372
UNITED STATES OF AMERICA, AIR FORCE																	
Patents By Year of Grant:		154	17	22	18	15	7	6	10	16	15	12	17	18	21	23	371
Patents By Year of Application:		190	23	18	18	10	14	10	13	13	14	17	13	12	5	1	371

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
ASAHI KASEI CHEMICALS CORPORATION																
Patents By Year of Grant:	0	0	0	3	3	16	15	12	35	44	58	44	43	44	52	369
Patents By Year of Application:	7	20	27	34	51	48	38	40	33	22	24	15	7	3	0	369
SYNGENTA CROP PROTECTION, INC.																
Patents By Year of Grant:	21	29	17	19	22	15	19	10	21	24	26	40	63	29	14	369
Patents By Year of Application:	75	43	41	27	28	25	24	34	21	29	13	5	3	1	0	369
IMMUNEX CORPORATION																
Patents By Year of Grant:	111	24	37	16	18	28	38	20	13	26	14	7	8	6	1	367
Patents By Year of Application:	212	40	19	16	8	11	17	10	9	13	3	6	3	0	0	367
KANSAI PAINT CO., LTD.																
Patents By Year of Grant:	145	34	33	28	18	10	5	5	12	12	19	12	13	11	10	367
Patents By Year of Application:	215	40	19	15	11	8	18	12	9	10	5	4	1	0	0	367
BASELL POLYOLEFINE GMBH																
Patents By Year of Grant:	5	30	27	28	34	32	20	21	36	39	21	18	14	26	15	366
Patents By Year of Application:	99	44	50	33	31	24	19	20	10	18	13	4	0	1	0	366
GENZYME CORPORATION																
Patents By Year of Grant:	95	15	12	17	20	32	21	16	21	25	16	16	15	28	17	366
Patents By Year of Application:	148	29	32	28	22	17	15	19	15	10	8	11	8	3	1	366
Life Technologies Corporation																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	15	32	38	58	64	77	82	366
Patents By Year of Application:	9	5	4	13	13	23	14	34	52	38	53	60	41	7	0	366
MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V																
Patents By Year of Grant:	98	15	30	13	13	21	8	12	21	19	16	28	22	25	25	366
Patents By Year of Application:	186	17	22	18	14	12	12	10	23	25	13	12	0	2	0	366
SHIONOGI + CO. LTD.																
Patents By Year of Grant:	101	18	14	24	20	18	9	9	12	15	11	29	27	30	29	366
Patents By Year of Application:	160	36	20	10	11	20	11	15	18	16	19	13	12	4	1	366
ETHICON, INC.																
Patents By Year of Grant:	94	27	24	16	12	20	19	11	15	23	19	19	21	19	26	365
Patents By Year of Application:	164	30	20	24	23	18	16	16	11	13	10	8	10	2	0	365
BOSTON SCIENTIFIC SCIMED, INC.																
Patents By Year of Grant:	0	0	1	1	9	17	15	30	34	52	60	63	39	31	12	364
Patents By Year of Application:	12	25	36	56	43	39	37	32	29	23	13	13	5	1	0	364

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
FORD GLOBAL TECHNOLOGIES, L.L.C.																	
Patents By Year of Grant:		114	19	16	7	9	7	9	7	9	18	15	35	25	32	41	363
Patents By Year of Application:		147	18	13	4	15	17	10	11	12	47	14	28	23	4	0	363
GILLETTE COMPANY																	
Patents By Year of Grant:		90	31	18	25	22	23	25	16	25	18	22	26	10	8	4	363
Patents By Year of Application:		161	31	48	22	17	14	8	16	22	8	7	6	2	1	0	363
MITSUBISHI MATERIALS CORPORATION																	
Patents By Year of Grant:		110	16	13	12	7	11	12	8	11	14	27	29	25	35	32	362
Patents By Year of Application:		148	13	20	14	13	19	22	18	23	23	15	21	12	1	0	362
SHISEIDO CO., LTD.																	
Patents By Year of Grant:		139	17	19	7	6	7	8	10	5	9	18	37	32	26	21	361
Patents By Year of Application:		182	21	14	10	17	7	10	17	28	28	13	6	3	5	0	361
NEC ELECTRONICS CORPORATION																	
Patents By Year of Grant:		0	0	66	53	42	28	36	30	47	57	1	0	0	0	0	360
Patents By Year of Application:		77	61	45	39	30	44	37	17	10	0	0	0	0	0	0	360
COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION																	
Patents By Year of Grant:		107	20	16	19	14	17	4	7	16	23	21	27	24	25	19	359
Patents By Year of Application:		181	21	16	15	20	11	20	10	10	19	13	11	9	3	0	359
HITACHI HIGH-TECHNOLOGIES CORPORATION																	
Patents By Year of Grant:		0	0	0	5	15	17	13	18	15	36	43	51	43	58	45	359
Patents By Year of Application:		2	20	26	33	21	22	27	57	35	47	26	25	13	5	0	359
IBIDEN CO., LTD.																	
Patents By Year of Grant:		31	9	5	1	11	6	4	18	27	45	58	49	38	32	25	359
Patents By Year of Application:		52	8	16	12	22	44	42	46	29	24	32	16	9	7	0	359
SCHLUMBERGER TECHNOLOGY CORPORATION																	
Patents By Year of Grant:		39	11	19	15	8	12	12	24	15	42	37	32	34	29	30	359
Patents By Year of Application:		83	25	17	15	12	35	34	35	44	29	18	7	3	2	0	359
HITACHI METALS LTD.																	
Patents By Year of Grant:		84	17	15	10	8	5	6	7	16	32	29	36	22	38	33	358
Patents By Year of Application:		121	16	7	16	25	22	35	29	23	28	17	6	11	2	0	358
SANOFI-AVENTIS																	
Patents By Year of Grant:		0	0	0	0	13	26	32	49	43	74	69	47	3	1	1	358
Patents By Year of Application:		11	26	28	7	29	45	64	68	53	23	4	0	0	0	0	358

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
ORTHO-MCNEIL PHARMACEUTICAL, INC.																
Patents By Year of Grant:	56	48	48	36	35	39	31	25	8	9	4	13	3	0	0	355
Patents By Year of Application:	190	62	27	20	10	18	9	5	1	11	0	2	0	0	0	355
ARCO CHEMICAL TECHNOLOGY, L.P.																
Patents By Year of Grant:	283	29	15	12	12	1	0	0	0	0	0	0	0	0	0	352
Patents By Year of Application:	320	20	9	3	0	0	0	0	0	0	0	0	0	0	0	352
NATIONAL RESEARCH COUNCIL OF CANADA																
Patents By Year of Grant:	94	10	22	20	3	15	25	20	15	23	13	17	22	31	22	352
Patents By Year of Application:	149	20	21	23	18	34	16	17	19	16	9	7	3	0	0	352
UNIVATION TECHNOLOGIES, LLC, (US)																
Patents By Year of Grant:	35	24	36	28	49	25	23	10	13	16	19	23	24	15	11	351
Patents By Year of Application:	116	27	42	23	29	10	20	24	20	16	15	8	1	0	0	351
ECOLAB USA INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	7	44	67	55	92	85	350
Patents By Year of Application:	0	0	4	5	10	11	7	16	32	67	60	70	53	15	0	350
DOW CORNING TORAY SILICONE COMPANY LIMITED																
Patents By Year of Grant:	250	38	19	10	2	7	12	6	2	2	0	0	0	0	0	348
Patents By Year of Application:	312	22	11	1	0	1	1	0	0	0	0	0	0	0	0	348
EQUISTAR CHEMICALS, LP																
Patents By Year of Grant:	56	24	28	39	41	34	11	16	18	22	11	12	14	15	5	346
Patents By Year of Application:	106	48	45	23	29	17	17	14	19	16	6	2	4	0	0	346
BP CHEMICALS LIMITED																
Patents By Year of Grant:	155	40	28	16	14	14	13	9	4	9	8	14	12	5	4	345
Patents By Year of Application:	236	22	22	9	9	14	11	9	8	4	0	1	0	0	0	345
ELF ATOCHEM S.A.																
Patents By Year of Grant:	307	17	13	3	4	0	1	0	0	0	0	0	0	0	0	345
Patents By Year of Application:	339	5	1	0	0	0	0	0	0	0	0	0	0	0	0	345
IOWA STATE UNIVERSITY RESEARCH FOUNDATION INC.																
Patents By Year of Grant:	148	11	15	15	9	15	19	6	23	19	8	11	16	17	13	345
Patents By Year of Application:	189	17	14	15	16	20	8	13	7	13	18	8	6	1	0	345
ISP INVESTMENTS INC.																
Patents By Year of Grant:	148	23	29	8	10	19	7	7	3	11	10	14	22	18	16	345
Patents By Year of Application:	191	17	21	19	16	14	7	4	6	26	13	8	3	0	0	345

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
MERCK SHARP & DOHME LIMITED																	
Patents By Year of Grant:		197	25	18	10	18	21	20	13	8	8	1	3	1	1	1	345
Patents By Year of Application:		243	26	36	16	9	7	3	2	1	1	0	1	0	0	0	345
PURDUE RESEARCH FOUNDATION																	
Patents By Year of Grant:		71	18	13	11	14	12	15	6	17	19	18	21	28	40	42	345
Patents By Year of Application:		119	27	20	12	15	11	20	19	26	15	20	18	17	6	0	345
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE																	
Patents By Year of Grant:		69	8	12	9	6	12	11	13	13	12	21	21	41	34	62	344
Patents By Year of Application:		121	16	12	15	13	14	8	28	29	28	21	19	15	5	0	344
OTSUKA PHARMACEUTICAL CO., LTD.																	
Patents By Year of Grant:		105	9	9	7	4	11	3	8	9	27	22	19	29	39	41	342
Patents By Year of Application:		137	9	13	20	20	20	16	21	16	15	18	17	14	6	0	342
NGK SPARK PLUG CO., LTD.																	
Patents By Year of Grant:		107	26	18	22	19	10	13	13	6	11	20	19	24	20	13	341
Patents By Year of Application:		168	23	23	13	14	17	13	10	17	10	14	11	7	1	0	341
UNIVERSITY OF IOWA RESEARCH FOUNDATION																	
Patents By Year of Grant:		91	19	20	16	14	20	25	18	14	27	18	23	9	12	15	341
Patents By Year of Application:		166	21	28	19	21	19	12	16	10	9	6	9	5	0	0	341
NIKON CORPORATION																	
Patents By Year of Grant:		160	32	31	22	6	5	2	4	5	9	12	13	18	9	12	340
Patents By Year of Application:		233	18	9	1	12	11	4	10	12	11	6	7	4	2	0	340
DANA-FARBER CANCER INSTITUTE, INC.																	
Patents By Year of Grant:		111	17	11	10	13	21	16	16	13	22	17	17	14	19	22	339
Patents By Year of Application:		175	30	10	14	15	16	19	19	13	9	14	4	1	0	0	339
AbbVie Inc.																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	0	0	6	87	122	122	337
Patents By Year of Application:		0	0	0	0	2	4	12	13	28	70	61	64	53	26	4	337
COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	0	5	20	65	106	141	337
Patents By Year of Application:		0	0	0	0	0	1	1	15	51	90	83	51	31	14	0	337
EMORY UNIVERSITY																	
Patents By Year of Grant:		107	26	20	16	10	17	13	10	10	20	9	8	20	27	19	332
Patents By Year of Application:		175	19	18	16	6	19	12	9	15	11	13	12	7	0	0	332

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
JOHNSON MATTHEY PUBLIC LIMITED COMPANY																
Patents By Year of Grant:	53	8	6	14	13	21	10	18	10	19	13	26	32	39	50	332
Patents By Year of Application:	96	26	14	18	18	13	18	9	19	23	25	23	17	12	1	332
KYOCERA CORPORATION																
Patents By Year of Grant:	70	15	21	11	10	11	13	13	16	14	25	26	28	25	32	330
Patents By Year of Application:	109	17	17	20	23	22	27	15	28	15	24	7	6	0	0	330
RIGEL PHARMACEUTICALS, INC.																
Patents By Year of Grant:	5	5	16	14	13	26	15	25	35	19	20	29	40	33	35	330
Patents By Year of Application:	55	33	12	19	23	33	17	18	12	21	21	26	25	11	4	330
HERCULES INCORPORATED																
Patents By Year of Grant:	183	28	17	7	6	5	8	4	8	4	13	7	17	21	1	329
Patents By Year of Application:	233	9	9	7	11	5	11	7	9	13	9	3	2	1	0	329
UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION																
Patents By Year of Grant:	78	24	14	12	15	15	11	16	18	23	16	20	20	28	19	329
Patents By Year of Application:	138	20	16	20	12	19	17	19	16	11	17	13	5	6	0	329
OWENS-CORNING FIBERGLAS TECHNOLOGY, INC.																
Patents By Year of Grant:	230	21	16	24	11	11	14	0	0	0	0	0	0	0	0	327
Patents By Year of Application:	287	22	12	6	0	0	0	0	0	0	0	0	0	0	0	327
PRINCETON UNIVERSITY																
Patents By Year of Grant:	83	27	21	16	18	9	14	17	20	17	27	16	12	10	20	327
Patents By Year of Application:	150	26	22	14	16	24	10	22	10	9	10	9	4	1	0	327
CHILDREN'S MEDICAL CENTER CORPORATION																
Patents By Year of Grant:	87	14	21	22	12	15	13	18	10	18	11	14	13	32	26	326
Patents By Year of Application:	155	28	17	8	14	19	10	13	19	11	7	16	4	5	0	326
INTERUNIVERSITAIR MICRO-ELEKTRONICA CENTRUM (IMEC VZW)																
Patents By Year of Grant:	28	12	19	10	11	8	16	20	21	30	31	35	30	28	26	325
Patents By Year of Application:	65	9	12	23	32	30	23	26	24	15	25	23	11	6	1	325
VANDERBILT UNIVERSITY																
Patents By Year of Grant:	69	17	17	16	10	16	11	12	13	11	14	23	25	41	30	325
Patents By Year of Application:	130	20	15	13	15	8	14	17	11	25	22	18	14	3	0	325
AVENTIS PHARMA DEUTSCHLAND GMBH																
Patents By Year of Grant:	68	75	61	54	43	14	2	0	0	1	3	2	0	0	0	323
Patents By Year of Application:	235	52	27	3	1	0	3	1	0	0	1	0	0	0	0	323

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
NIPPON SHEET GLASS CO., LTD.																	
Patents By Year of Grant:	76	50	36	36	14	13	15	8	11	21	4	11	11	3	11	320	
Patents By Year of Application:	184	32	21	18	13	11	15	14	6	3	2	0	1	0	0	320	
SCHOTT AG																	
Patents By Year of Grant:	0	0	0	0	4	33	31	25	36	38	35	35	32	28	22	319	
Patents By Year of Application:	14	35	38	29	41	22	32	21	19	35	14	10	8	1	0	319	
UNIVERSITY OF BRITISH COLUMBIA																	
Patents By Year of Grant:	117	13	10	17	9	7	13	10	10	12	9	12	27	27	26	319	
Patents By Year of Application:	172	17	10	6	12	10	7	13	14	13	13	10	14	8	0	319	
TAKASAGO INTERNATIONAL CORPORATION																	
Patents By Year of Grant:	126	24	13	15	11	13	5	6	12	9	15	14	20	14	19	316	
Patents By Year of Application:	168	20	13	18	10	15	6	8	13	18	12	9	2	4	0	316	
ALCOA INC.																	
Patents By Year of Grant:	135	25	22	18	14	12	9	10	6	14	9	15	5	10	11	315	
Patents By Year of Application:	186	17	29	6	11	7	15	7	8	10	7	6	4	2	0	315	
Sanofi-Aventis Deutschland GmbH																	
Patents By Year of Grant:	0	0	0	0	0	34	59	51	42	42	32	22	12	12	8	314	
Patents By Year of Application:	10	12	56	68	26	35	43	21	22	10	6	5	0	0	0	314	
ENGELHARD CORPORATION																	
Patents By Year of Grant:	150	36	38	28	22	21	12	5	0	1	0	0	0	0	0	313	
Patents By Year of Application:	238	37	19	13	6	0	0	0	0	0	0	0	0	0	0	313	
SHIPLEY COMPANY INC.																	
Patents By Year of Grant:	102	26	44	55	37	23	22	2	1	1	0	0	0	0	0	313	
Patents By Year of Application:	215	48	34	10	3	2	1	0	0	0	0	0	0	0	0	313	
BAUSCH & LOMB, INC.																	
Patents By Year of Grant:	72	13	22	20	22	30	14	10	21	15	17	25	14	11	6	312	
Patents By Year of Application:	129	16	21	22	23	21	14	23	13	8	11	7	4	0	0	312	
U.S. PHILIPS CORPORATION																	
Patents By Year of Grant:	288	21	1	0	0	0	0	0	0	0	0	0	0	0	0	310	
Patents By Year of Application:	310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	310	
SEMINIS VEGETABLE SEEDS, INC.																	
Patents By Year of Grant:	18	3	0	4	1	2	1	2	10	23	35	42	64	47	56	308	
Patents By Year of Application:	26	2	4	2	2	4	12	39	38	45	62	50	19	3	0	308	

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
BOEHRINGER INGELHEIM PHARMA GMBH & CO. KG																
Patents By Year of Grant:	29	35	36	35	27	27	23	18	16	21	9	8	15	3	5	307
Patents By Year of Application:	98	48	67	13	21	14	11	16	8	7	1	2	1	0	0	307
HITACHI KOKUSAI ELECTRIC INC.																
Patents By Year of Grant:	1	3	8	15	9	3	0	1	11	23	38	45	47	36	67	307
Patents By Year of Application:	17	11	14	7	16	16	23	17	45	32	39	34	15	18	3	307
GEORGIA TECH RESEARCH CORP.																
Patents By Year of Grant:	58	9	14	8	12	14	13	14	9	18	20	27	38	30	20	304
Patents By Year of Application:	87	15	21	16	18	22	19	19	15	26	18	20	5	3	0	304
THE YOKOHAMA RUBBER CO., LTD.																
Patents By Year of Grant:	56	17	22	14	13	8	7	7	12	23	25	27	22	29	22	304
Patents By Year of Application:	103	17	16	16	12	11	29	22	20	16	26	9	5	1	1	304
ONO PHARMACEUTICAL COMPANY, LIMITED																
Patents By Year of Grant:	64	18	17	10	10	12	20	17	20	24	18	18	23	14	17	302
Patents By Year of Application:	109	26	28	28	22	11	11	9	8	15	11	13	8	2	1	302
SALK INSTITUTE FOR BIOLOGICAL STUDIES																
Patents By Year of Grant:	138	20	18	17	7	20	15	7	8	9	10	10	6	6	11	302
Patents By Year of Application:	213	13	11	5	7	7	7	11	6	9	5	1	4	3	0	302
CYTEC TECHNOLOGY CORP.																
Patents By Year of Grant:	185	13	14	12	5	3	4	5	2	4	8	10	12	17	7	301
Patents By Year of Application:	226	5	5	7	1	4	2	8	4	17	8	8	2	4	0	301
HEWLETT-PACKARD COMPANY																
Patents By Year of Grant:	241	40	18	0	1	1	0	0	0	0	0	0	0	0	0	301
Patents By Year of Application:	300	1	0	0	0	0	0	0	0	0	0	0	0	0	0	301
EISAI CO., LTD.																
Patents By Year of Grant:	147	23	25	23	15	25	19	9	3	2	4	1	0	1	0	297
Patents By Year of Application:	208	50	20	5	6	1	2	2	0	2	0	1	0	0	0	297
UNIVERSITY OF CENTRAL FLORIDA																
Patents By Year of Grant:	13	4	11	9	5	8	12	10	21	26	37	41	26	46	28	297
Patents By Year of Application:	28	15	16	10	19	21	27	30	31	30	28	27	11	4	0	297
Abbott Cardiovascular Systems, Inc.																
Patents By Year of Grant:	0	0	0	0	0	0	3	2	1	12	34	40	55	86	63	296
Patents By Year of Application:	1	2	2	1	2	18	55	31	29	23	38	46	33	14	1	296

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
SYSMEX CORPORATION																	
Patents By Year of Grant:		9	5	2	6	5	4	9	13	10	20	38	35	34	57	49	296
Patents By Year of Application:		28	7	14	18	17	25	31	36	24	31	25	27	12	1	0	296
IDEMITSU PETROCHEMICAL COMPANY LTD.																	
Patents By Year of Grant:		154	48	30	49	9	3	1	1	0	0	0	0	0	0	0	295
Patents By Year of Application:		246	39	8	2	0	0	0	0	0	0	0	0	0	0	0	295
JFE STEEL CORPORATION																	
Patents By Year of Grant:		0	0	0	40	15	11	12	16	17	14	23	19	26	44	58	295
Patents By Year of Application:		17	39	38	24	15	20	15	24	23	30	39	9	1	1	0	295
NALCO COMPANY																	
Patents By Year of Grant:		0	0	0	15	10	13	14	11	16	18	42	42	45	42	27	295
Patents By Year of Application:		5	20	20	19	18	25	30	27	40	30	22	31	5	3	0	295
EISAI R & D MANAGEMENT CO., LTD.																	
Patents By Year of Grant:		0	0	0	0	0	0	8	18	34	52	54	32	43	19	34	294
Patents By Year of Application:		3	11	11	20	36	47	25	35	26	19	19	17	18	7	0	294
REGENERON PHARMACEUTICALS, INC.																	
Patents By Year of Grant:		41	10	9	5	9	14	12	21	27	11	14	16	24	33	48	294
Patents By Year of Application:		67	12	10	11	16	14	13	21	13	22	26	26	26	11	6	294
UNIVERSITY OF ARKANSAS																	
Patents By Year of Grant:		54	10	21	6	13	19	12	10	14	20	19	26	22	23	25	294
Patents By Year of Application:		98	21	20	10	15	13	20	17	18	22	20	11	6	2	1	294
ROCHE DIAGNOSTICS GMBH																	
Patents By Year of Grant:		126	41	37	25	14	12	16	7	5	3	1	2	2	1	1	293
Patents By Year of Application:		249	15	11	3	6	2	3	2	0	1	0	1	0	0	0	293
DANISCO US INC																	
Patents By Year of Grant:		0	0	0	0	0	0	0	6	9	18	45	48	60	70	36	292
Patents By Year of Application:		0	3	9	15	9	13	29	47	41	32	30	36	22	6	0	292
INTERNATIONAL FLAVORS + FRAGRANCES INC																	
Patents By Year of Grant:		81	19	13	7	11	18	21	17	25	17	15	11	16	7	14	292
Patents By Year of Application:		116	16	22	15	15	15	17	18	13	14	10	7	10	4	0	292
ACADEMIA SINICA																	
Patents By Year of Grant:		21	13	12	9	11	17	6	19	14	18	27	23	43	27	30	290
Patents By Year of Application:		53	17	17	17	10	21	19	25	35	22	23	15	10	6	0	290

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
GENETICS INSTITUTE, INC.																
Patents By Year of Grant:	156	16	20	13	21	18	12	8	14	6	5	1	0	0	0	290
Patents By Year of Application:	237	14	9	9	7	5	2	4	2	1	0	0	0	0	0	290
KAWASAKI STEEL CORPORATION																
Patents By Year of Grant:	216	42	29	1	1	0	0	0	0	0	0	0	0	0	0	289
Patents By Year of Application:	280	8	1	0	0	0	0	0	0	0	0	0	0	0	0	289
NEUROGEN CORPORATION																
Patents By Year of Grant:	146	39	20	13	17	19	15	8	3	5	2	1	0	1	0	289
Patents By Year of Application:	213	19	23	13	10	6	3	0	0	1	1	0	0	0	0	289
BEIERSDORF AKTIENGESELLSCHAFT																
Patents By Year of Grant:	116	31	33	21	12	9	16	2	3	10	5	5	7	12	6	288
Patents By Year of Application:	205	17	6	23	11	10	2	3	3	3	1	1	3	0	0	288
GRUENENTHAL GMBH																
Patents By Year of Grant:	33	6	12	14	8	14	18	18	13	24	29	39	25	24	11	288
Patents By Year of Application:	47	23	25	22	19	34	15	24	27	19	16	10	6	1	0	288
IFP Energies Nouvelles																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	14	44	40	65	74	51	288
Patents By Year of Application:	1	1	2	4	17	14	33	63	51	38	37	17	8	2	0	288
ROCHE PALO ALTO LLC																
Patents By Year of Grant:	0	0	2	4	11	15	32	29	40	36	39	40	21	15	4	288
Patents By Year of Application:	1	7	21	29	37	40	33	26	43	27	14	3	7	0	0	288
DAINIPPON INK + CHEMICALS, INC.																
Patents By Year of Grant:	101	21	37	26	22	18	17	10	8	14	6	3	3	1	0	287
Patents By Year of Application:	180	32	30	13	16	13	0	0	2	0	1	0	0	0	0	287
ZEON CORPORATION																
Patents By Year of Grant:	2	7	14	15	20	17	16	21	15	22	27	28	23	29	31	287
Patents By Year of Application:	36	33	28	32	17	20	20	25	26	14	22	11	3	0	0	287
LEVER BROTHERS COMPANY, DIVISION OF CONOPCO, INC.																
Patents By Year of Grant:	278	5	1	2	0	0	0	0	0	0	0	0	0	0	0	286
Patents By Year of Application:	286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	286
ILLINOIS TOOL WORKS INC.																
Patents By Year of Grant:	58	17	19	19	12	17	12	13	15	18	14	18	11	18	24	285
Patents By Year of Application:	105	19	19	29	17	13	15	11	10	11	8	15	11	2	0	285

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
RIKEN																
Patents By Year of Grant:	7	10	15	12	13	17	15	10	16	28	33	23	26	28	24	277
Patents By Year of Application:	57	22	22	18	22	18	25	25	16	22	15	11	2	2	0	277
RHONE-POULENC CHIMIE																
Patents By Year of Grant:	268	2	2	4	0	0	0	0	0	0	0	0	0	0	0	276
Patents By Year of Application:	275	1	0	0	0	0	0	0	0	0	0	0	0	0	0	276
UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.																
Patents By Year of Grant:	79	17	9	8	11	5	6	7	12	14	14	25	17	25	27	276
Patents By Year of Application:	122	4	12	13	16	6	9	20	16	17	16	11	9	5	0	276
LES LABORATOIRES SERVIER																
Patents By Year of Grant:	0	15	29	22	10	19	35	28	18	6	29	19	13	23	9	275
Patents By Year of Application:	40	40	21	30	20	23	16	11	23	11	10	13	13	4	0	275
SEPRACOR INC.																
Patents By Year of Grant:	123	49	19	13	11	19	9	10	9	10	3	0	0	0	0	275
Patents By Year of Application:	192	24	14	15	7	10	3	5	5	0	0	0	0	0	0	275
SHINKO ELECTRIC INDUSTRIES CO., LTD.																
Patents By Year of Grant:	37	8	9	18	12	16	26	20	18	35	32	17	12	6	8	274
Patents By Year of Application:	53	17	22	22	35	26	19	29	22	15	5	1	8	0	0	274
INTERNATIONAL PAPER CO.																
Patents By Year of Grant:	105	8	13	5	4	7	4	8	9	23	18	11	31	19	8	273
Patents By Year of Application:	130	9	15	7	3	16	10	8	19	20	16	4	12	4	0	273
METSO PAPER, INC.																
Patents By Year of Grant:	3	37	24	30	27	21	21	27	15	21	20	19	7	1	0	273
Patents By Year of Application:	84	49	45	20	23	18	9	11	6	4	3	1	0	0	0	273
NIPPON PAINT CO., LTD.																
Patents By Year of Grant:	167	24	15	15	7	9	4	5	3	4	3	5	4	3	5	273
Patents By Year of Application:	215	13	14	4	7	5	4	2	1	2	3	2	1	0	0	273
SUMITOMO METAL INDUSTRIES CO., LTD.																
Patents By Year of Grant:	103	28	16	12	10	8	6	12	9	22	18	24	4	1	0	273
Patents By Year of Application:	151	7	18	14	22	9	11	17	9	7	8	0	0	0	0	273
IMMUNOMEDICS INC.																
Patents By Year of Grant:	48	10	5	4	6	12	11	11	20	15	24	23	32	25	26	272
Patents By Year of Application:	77	12	16	8	10	9	15	9	22	13	16	20	25	18	2	272

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
ALZA CORPORATION																	
Patents By Year of Grant:		154	17	16	6	12	12	11	6	8	1	3	5	3	8	8	270
Patents By Year of Application:		207	9	11	11	6	6	6	2	3	1	2	1	3	2	0	270
BIO-RAD LABORATORIES, INC.																	
Patents By Year of Grant:		50	12	3	5	7	17	9	12	19	17	18	17	25	25	34	270
Patents By Year of Application:		78	19	10	12	12	21	9	8	21	25	20	18	11	5	1	270
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH																	
Patents By Year of Grant:		0	0	1	3	9	17	13	11	16	20	21	28	37	48	45	269
Patents By Year of Application:		14	6	23	33	15	32	20	32	20	27	24	12	8	3	0	269
BASF COATINGS AG																	
Patents By Year of Grant:		75	20	34	32	20	29	10	9	17	12	11	0	0	0	0	269
Patents By Year of Application:		160	59	21	10	3	13	3	0	0	0	0	0	0	0	0	269
UNIVERSITY OF CHICAGO																	
Patents By Year of Grant:		69	19	16	18	13	19	9	8	12	11	14	10	10	20	20	268
Patents By Year of Application:		122	30	16	10	9	19	11	7	6	9	11	10	4	4	0	268
UNIVERSITY OF MISSOURI																	
Patents By Year of Grant:		56	14	14	13	7	16	11	4	12	17	20	21	22	18	22	267
Patents By Year of Application:		97	21	15	13	14	11	14	10	17	17	14	20	3	1	0	267
THOMAS JEFFERSON UNIVERSITY																	
Patents By Year of Grant:		138	28	21	10	8	5	8	4	7	14	2	5	5	1	8	264
Patents By Year of Application:		210	10	7	6	6	4	3	5	4	4	2	0	2	1	0	264
TOKUYAMA CORPORATION																	
Patents By Year of Grant:		67	13	10	17	15	11	7	8	7	13	22	19	15	19	20	263
Patents By Year of Application:		98	28	19	17	17	12	13	15	8	9	13	12	1	1	0	263
WILLIAM MARSH RICE UNIVERSITY																	
Patents By Year of Grant:		11	8	4	16	17	28	19	21	17	26	24	21	17	18	16	263
Patents By Year of Application:		64	20	27	21	24	19	29	18	10	12	10	6	3	0	0	263
CREE, INC.																	
Patents By Year of Grant:		14	3	12	15	12	26	17	32	20	21	24	22	18	14	12	262
Patents By Year of Application:		38	15	28	32	30	29	17	17	16	22	8	5	3	2	0	262
BAYER HEALTHCARE, LLC																	
Patents By Year of Grant:		0	0	0	3	3	11	1	11	15	30	33	47	38	38	31	261
Patents By Year of Application:		5	14	10	28	23	27	22	27	12	22	18	25	20	8	0	261

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
CRYOVAC, INC.																
Patents By Year of Grant:	81	23	31	16	11	7	8	9	12	14	13	8	13	11	4	261
Patents By Year of Application:	160	11	18	8	13	11	8	5	6	6	8	3	4	0	0	261
KUREHA KAGAKU KOGYO K.K.																
Patents By Year of Grant:	89	10	11	6	4	9	11	1	14	25	17	17	15	15	17	261
Patents By Year of Application:	122	13	12	20	22	16	10	8	9	9	8	7	2	3	0	261
UAB RESEARCH FOUNDATION																
Patents By Year of Grant:	85	17	28	21	11	7	13	3	7	7	9	10	11	18	13	260
Patents By Year of Application:	157	20	8	8	7	7	12	7	4	8	8	8	6	0	0	260
ASTELLAS PHARMA INC.																
Patents By Year of Grant:	0	0	0	0	2	34	39	26	15	28	34	28	17	20	16	259
Patents By Year of Application:	13	18	34	33	30	23	23	20	20	13	6	12	11	3	0	259
FLORIDA STATE UNIVERSITY																
Patents By Year of Grant:	51	17	9	9	9	9	11	5	13	21	16	20	35	15	17	257
Patents By Year of Application:	80	16	11	7	16	13	17	7	19	17	15	29	8	2	0	257
KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO																
Patents By Year of Grant:	95	18	12	16	7	8	8	9	8	10	14	6	13	15	18	257
Patents By Year of Application:	134	23	14	8	6	8	8	16	8	10	11	7	4	0	0	257
MOSEL VITELIC, INCORPORATED																
Patents By Year of Grant:	158	30	14	22	8	8	6	5	2	0	1	0	0	2	1	257
Patents By Year of Application:	201	24	9	10	6	3	0	1	0	0	0	0	3	0	0	257
SEKISUI CHEMICAL CO., LTD.																
Patents By Year of Grant:	25	12	14	9	13	17	19	13	11	22	12	15	25	25	24	256
Patents By Year of Application:	61	35	15	16	21	13	13	22	14	13	11	12	8	2	0	256
KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.																
Patents By Year of Grant:	0	0	0	0	1	6	15	15	28	26	36	40	45	32	11	255
Patents By Year of Application:	0	0	4	32	23	23	26	20	43	29	29	21	4	1	0	255
NIPPON KAYAKU KABUSHIKI KAISHA																
Patents By Year of Grant:	65	15	7	10	5	13	6	14	17	18	21	16	15	14	19	255
Patents By Year of Application:	92	20	12	20	16	21	20	12	12	8	14	5	3	0	0	255
LINTEC CORPORATION																
Patents By Year of Grant:	53	9	15	18	18	10	10	9	7	18	20	17	20	18	12	254
Patents By Year of Application:	89	19	17	15	23	10	18	19	13	9	10	7	5	0	0	254

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
EVEREADY BATTERY COMPANY, INC.																	
Patents By Year of Grant:		85	14	15	10	9	3	4	10	16	25	18	19	13	8	4	253
Patents By Year of Application:		126	9	11	16	7	13	22	12	9	10	13	4	1	0	0	253
H. LUNDBECK A/S																	
Patents By Year of Grant:		27	14	7	12	15	22	13	16	12	18	9	15	27	19	27	253
Patents By Year of Application:		60	28	15	16	18	13	9	14	17	17	11	10	14	10	1	253
ROHM CO., LTD.																	
Patents By Year of Grant:		68	18	14	16	10	19	17	17	7	10	8	10	16	11	12	253
Patents By Year of Application:		102	22	18	26	15	13	7	16	7	3	3	7	5	9	0	253
S. C. JOHNSON + SON, INC.																	
Patents By Year of Grant:		86	18	13	14	5	5	6	11	13	16	9	14	13	15	15	253
Patents By Year of Application:		126	15	5	5	15	15	11	6	12	15	4	13	5	1	5	253
SIGMA-TAU INDUSTRIE FARMACEUTICHE RIUNITE S.P.A.																	
Patents By Year of Grant:		77	21	9	14	10	8	7	9	10	21	20	12	17	9	9	253
Patents By Year of Application:		118	22	17	12	18	11	16	16	4	9	3	3	3	1	0	253
AGERE SYSTEMS INC.																	
Patents By Year of Grant:		7	17	53	43	20	24	19	15	18	13	12	7	3	1	0	252
Patents By Year of Application:		106	31	28	23	10	15	15	7	6	4	6	1	0	0	0	252
ARCHER-DANIELS-MIDLAND COMPANY																	
Patents By Year of Grant:		38	21	13	14	11	14	9	17	14	18	21	17	10	19	16	252
Patents By Year of Application:		87	26	11	11	21	14	17	21	9	8	12	4	6	2	3	252
NIPPON SODA COMPANY LIMITED																	
Patents By Year of Grant:		47	9	7	12	3	6	9	5	6	13	11	27	32	29	35	251
Patents By Year of Application:		68	18	10	13	8	12	16	14	16	29	17	11	9	10	0	251
LOUISIANA STATE UNIVERSITY																	
Patents By Year of Grant:		106	15	13	6	11	8	10	11	4	8	11	12	11	9	14	249
Patents By Year of Application:		144	16	12	5	14	7	8	8	8	14	6	4	3	0	0	249
SAUDI BASIC INDUSTRIES CORPORATION																	
Patents By Year of Grant:		27	9	9	8	7	17	19	10	10	14	14	20	15	34	36	249
Patents By Year of Application:		46	18	13	14	24	19	18	20	11	18	7	23	12	6	0	249
SUMITOMO BAKELITE CO. LTD.																	
Patents By Year of Grant:		57	13	21	13	9	5	4	9	6	9	22	22	19	23	17	249
Patents By Year of Application:		93	17	11	9	17	17	17	17	17	7	16	8	3	0	0	249

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
MCNEIL-PPC, INC.																
Patents By Year of Grant:	102	16	10	10	4	8	9	6	2	10	10	15	19	17	10	248
Patents By Year of Application:	141	16	14	8	7	9	7	2	13	13	2	6	8	2	0	248
AUSIMONT S.P.A.																
Patents By Year of Grant:	154	27	26	25	7	1	1	5	1	0	0	0	0	0	0	247
Patents By Year of Application:	211	30	3	2	0	1	0	0	0	0	0	0	0	0	0	247
RHODIA OPERATIONS																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	2	7	23	31	46	61	76	247
Patents By Year of Application:	0	0	4	8	3	9	31	26	55	40	37	20	10	4	0	247
BOREALIS TECHNOLOGY OY																
Patents By Year of Grant:	8	17	22	16	11	13	10	13	16	26	15	25	34	13	7	246
Patents By Year of Application:	68	27	20	12	21	19	26	35	11	1	3	3	0	0	0	246
THE CLOROX COMPANY																
Patents By Year of Grant:	92	13	4	2	5	8	9	14	19	16	12	9	13	14	16	246
Patents By Year of Application:	113	2	7	12	10	10	14	21	6	14	5	17	6	7	2	246
Empire Technology Development LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	9	36	51	70	79	245
Patents By Year of Application:	0	0	0	0	0	0	5	12	34	50	55	67	15	7	0	245
GLAXO WELLCOME INC.																
Patents By Year of Grant:	232	5	1	2	2	2	1	0	0	0	0	0	0	0	0	245
Patents By Year of Application:	244	0	1	0	0	0	0	0	0	0	0	0	0	0	0	245
HITACHI MAXELL, LTD.																
Patents By Year of Grant:	74	10	9	9	15	13	16	16	14	18	8	5	6	23	9	245
Patents By Year of Application:	103	12	26	20	17	14	10	10	8	5	12	5	3	0	0	245
WINBOND ELECTRONICS CORP.																
Patents By Year of Grant:	136	33	18	22	8	6	3	2	5	1	2	4	2	2	1	245
Patents By Year of Application:	184	25	11	5	5	0	2	2	2	2	4	1	2	0	0	245
BIOMERIEUX SA																
Patents By Year of Grant:	66	12	16	6	11	11	14	11	14	16	7	18	18	15	9	244
Patents By Year of Application:	129	15	10	12	9	14	5	15	13	13	3	4	1	1	0	244
CASE WESTERN RESERVE UNIVERSITY																
Patents By Year of Grant:	67	17	12	7	5	2	1	5	4	5	10	23	26	31	29	244
Patents By Year of Application:	102	9	7	9	9	4	14	13	16	23	16	13	7	0	2	244

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
KODAK POLYCHROME GRAPHICS, LLC																	
Patents By Year of Grant:		82	40	46	34	39	3	0	0	0	0	0	0	0	0	0	244
Patents By Year of Application:		178	41	21	3	1	0	0	0	0	0	0	0	0	0	0	244
LOCKHEED MARTIN CORPORATION																	
Patents By Year of Grant:		43	10	19	16	12	9	12	6	8	22	11	18	15	23	20	244
Patents By Year of Application:		79	23	15	12	10	12	17	10	17	15	15	6	9	3	1	244
MITSUI MINING + SMELTING CO., LTD.																	
Patents By Year of Grant:		72	17	29	20	10	10	10	6	5	11	13	9	13	9	10	244
Patents By Year of Application:		125	21	22	11	15	4	9	6	7	8	8	7	1	0	0	244
SANKYO COMPANY LIMITED																	
Patents By Year of Grant:		137	14	14	12	12	15	10	8	6	7	6	2	0	0	1	244
Patents By Year of Application:		175	15	20	7	14	5	3	1	2	2	0	0	0	0	0	244
ADVANCED SEMICONDUCTOR ENGINEERING, INC.																	
Patents By Year of Grant:		13	17	11	17	15	30	24	23	23	24	13	13	9	8	3	243
Patents By Year of Application:		38	15	21	43	31	26	10	20	12	13	7	4	2	1	0	243
BAYLOR COLLEGE OF MEDICINE																	
Patents By Year of Grant:		107	16	15	10	6	12	11	14	5	9	5	5	3	12	12	242
Patents By Year of Application:		158	13	12	14	5	5	4	6	3	4	1	5	4	8	0	242
HUELS AKTIENGESELLSCHAFT																	
Patents By Year of Grant:		239	2	1	0	0	0	0	0	0	0	0	0	0	0	0	242
Patents By Year of Application:		242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242
MANN & HUMMEL GMBH																	
Patents By Year of Grant:		0	0	0	0	3	7	8	9	20	18	28	47	35	36	31	242
Patents By Year of Application:		0	1	8	6	19	24	35	32	32	16	15	30	20	4	0	242
CYPRESS SEMICONDUCTOR CORP.																	
Patents By Year of Grant:		50	12	24	32	26	13	12	11	3	4	11	10	5	13	15	241
Patents By Year of Application:		110	44	5	15	8	7	10	12	3	2	4	10	4	6	1	241
LEXMARK INTERNATIONAL, INC.																	
Patents By Year of Grant:		85	19	16	12	10	11	7	15	8	10	11	16	10	6	5	241
Patents By Year of Application:		120	14	12	19	18	6	11	13	8	6	8	4	1	1	0	241
MALLINCKRODT, INC.																	
Patents By Year of Grant:		25	8	10	8	8	6	13	16	12	16	10	34	29	25	21	241
Patents By Year of Application:		57	7	15	20	13	11	17	16	28	22	7	14	10	4	0	241

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
HALDOR TOPSOE A/S																
Patents By Year of Grant:	69	9	17	15	10	17	7	9	13	20	9	9	11	11	14	240
Patents By Year of Application:	110	8	25	14	12	13	8	4	17	12	9	8	0	0	0	240
CORIXA CORPORATION																
Patents By Year of Grant:	38	32	41	22	19	17	13	10	9	7	22	7	0	1	1	239
Patents By Year of Application:	166	14	11	6	4	10	18	1	3	3	2	1	0	0	0	239
HOECHST CELANESE CORPORATION																
Patents By Year of Grant:	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
Patents By Year of Application:	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
NEKTAR THERAPEUTICS																
Patents By Year of Grant:	0	0	6	6	8	4	3	5	7	20	24	33	46	41	36	239
Patents By Year of Application:	15	11	8	8	8	15	16	12	31	25	21	27	24	16	2	239
Samsung Mobile Display Co., Ltd.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	42	68	85	44	0	0	0	239
Patents By Year of Application:	0	1	3	15	36	73	38	27	22	15	9	0	0	0	0	239
BOEHRINGER INGELHEIM PHARMACEUTICALS, INC.																
Patents By Year of Grant:	61	27	24	22	23	16	21	12	19	6	3	3	0	1	0	238
Patents By Year of Application:	109	36	34	22	21	8	3	2	2	1	0	0	0	0	0	238
HAYASHIBARA BIOCHEMICAL LABORATORIES INCORPORATED																
Patents By Year of Grant:	140	13	12	8	3	8	12	7	7	13	6	5	3	1	0	238
Patents By Year of Application:	183	13	9	9	6	8	7	0	1	0	2	0	0	0	0	238
BRISTOL-MYERS SQUIBB PHARMA COMPANY																
Patents By Year of Grant:	2	41	49	44	40	23	14	16	4	4	0	0	0	0	0	237
Patents By Year of Application:	122	43	26	19	7	8	7	4	1	0	0	0	0	0	0	237
DENKA COMPANY LIMITED																
Patents By Year of Grant:	53	15	7	3	8	10	6	9	13	14	14	16	21	22	25	236
Patents By Year of Application:	81	18	9	15	9	10	19	10	12	22	18	11	2	0	0	236
BOEHRINGER MANNHEIM G.M.B.H.																
Patents By Year of Grant:	231	0	2	1	0	0	0	0	0	0	0	0	0	0	0	234
Patents By Year of Application:	234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234
BROTHER KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	73	2	3	5	6	4	15	31	11	15	16	23	14	10	6	234
Patents By Year of Application:	79	5	14	9	24	19	22	18	15	8	11	5	2	2	1	234

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
UNIVERSITY OF NEBRASKA, THE BOARD OF REGENTS OF																	
Patents By Year of Grant:	105	15	10	16	5	13	10	12	6	14	4	7	7	6	4	234	
Patents By Year of Application:	155	12	13	10	6	5	6	6	6	5	4	5	1	0	0	234	
ALSTOM TECHNOLOGY LTD																	
Patents By Year of Grant:	0	0	0	10	5	23	10	7	13	12	19	29	24	45	36	233	
Patents By Year of Application:	3	22	10	19	6	12	9	23	36	17	26	11	27	11	1	233	
Applied Biosystems, LLC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	33	21	34	36	44	37	28	233
Patents By Year of Application:	0	1	6	15	18	18	31	24	26	32	19	22	15	5	1	233	
JNC Corporation																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	21	41	81	45	45	233	
Patents By Year of Application:	0	0	0	1	1	3	9	18	36	68	38	27	24	7	1	233	
MEMC ELECTRONIC MATERIALS, INC.																	
Patents By Year of Grant:	95	24	23	12	13	9	7	7	4	3	8	6	16	6	0	233	
Patents By Year of Application:	144	18	12	7	11	1	9	5	7	12	6	1	0	0	0	233	
NORTHROP GRUMMAN CORPORATION																	
Patents By Year of Grant:	134	8	17	14	10	19	7	9	10	4	0	0	1	0	0	233	
Patents By Year of Application:	164	13	18	19	6	11	0	1	0	1	0	0	0	0	0	233	
AKTIEBOLAGET ASTRA																	
Patents By Year of Grant:	225	3	0	2	2	0	0	0	0	0	0	0	0	0	0	0	232
Patents By Year of Application:	232	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232
ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNIVERSITY																	
Patents By Year of Grant:	73	15	11	12	7	12	5	8	5	19	10	13	17	19	6	232	
Patents By Year of Application:	113	13	12	15	14	9	16	12	6	8	3	6	4	1	0	232	
JAPAN SCIENCE AND TECHNOLOGY CORPORATION																	
Patents By Year of Grant:	39	25	26	24	37	21	27	25	3	2	1	1	1	0	0	232	
Patents By Year of Application:	146	51	17	5	5	3	4	0	0	1	0	0	0	0	0	232	
LANXESS DEUTSCHLAND GMBH																	
Patents By Year of Grant:	0	0	0	0	0	3	32	28	11	30	25	21	34	18	30	232	
Patents By Year of Application:	1	3	15	21	32	27	26	28	22	20	15	11	10	1	0	232	
PURDUE PHARMA, L.P.																	
Patents By Year of Grant:	10	0	0	0	1	2	4	10	8	28	17	22	27	36	67	232	
Patents By Year of Application:	14	11	13	9	8	17	17	13	14	16	16	19	35	22	8	232	

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
TEXAS A AND M UNIVERSITY																
Patents By Year of Grant:	56	17	12	9	9	13	13	5	13	15	5	20	15	16	14	232
Patents By Year of Application:	93	18	11	13	12	14	11	6	14	12	13	9	3	3	0	232
SUMCO CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	10	21	40	46	36	18	13	24	22	230
Patents By Year of Application:	0	0	5	18	24	42	44	15	30	28	13	1	5	5	0	230
UNIVERSITY OF CONNECTICUT																
Patents By Year of Grant:	48	8	11	7	7	18	14	13	12	19	16	17	15	12	13	230
Patents By Year of Application:	83	15	16	9	16	17	15	12	17	7	11	6	6	0	0	230
HON HAI PRECISION IND. CO., LTD.																
Patents By Year of Grant:	2	1	4	3	6	6	2	10	20	24	25	41	50	25	10	229
Patents By Year of Application:	7	8	3	8	10	28	14	17	29	62	19	15	7	1	1	229
MICHELIN RECHERCHE ET TECHNIQUE S.A.																
Patents By Year of Grant:	22	8	12	21	9	18	20	20	13	17	8	18	12	15	16	229
Patents By Year of Application:	56	17	23	22	26	19	19	21	9	9	5	2	0	1	0	229
NALCO CHEMICAL COMPANY																
Patents By Year of Grant:	200	29	0	0	0	0	0	0	0	0	0	0	0	0	0	229
Patents By Year of Application:	229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	229
Novartis Vaccines and Diagnostics, Inc.																
Patents By Year of Grant:	0	0	0	0	0	8	11	33	46	48	25	31	17	6	4	229
Patents By Year of Application:	30	9	25	28	40	24	18	19	12	9	8	5	1	1	0	229
TODA KOGYO CORP.																
Patents By Year of Grant:	98	28	19	21	6	7	6	4	3	5	4	6	9	7	6	229
Patents By Year of Application:	147	27	5	7	3	8	2	8	5	9	2	3	2	0	1	229
CELGENE CORPORATION																
Patents By Year of Grant:	37	9	7	2	5	9	9	19	12	15	15	16	17	30	26	228
Patents By Year of Application:	59	5	16	11	19	12	9	19	15	12	12	11	21	7	0	228
MINOLTA CAMERA CO., LTD.																
Patents By Year of Grant:	138	25	34	6	14	2	2	3	2	0	1	0	0	0	0	227
Patents By Year of Application:	206	9	9	2	1	0	0	0	0	0	0	0	0	0	0	227
BECKMAN COULTER, INC.																
Patents By Year of Grant:	36	5	12	10	17	11	24	10	13	19	14	13	15	15	12	226
Patents By Year of Application:	79	14	8	17	20	12	11	18	13	14	7	4	9	0	0	226

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
UChicago Argonne LLC																
Patents By Year of Grant:	0	0	0	0	0	2	18	19	14	22	21	25	25	28	47	221
Patents By Year of Application:	1	3	13	21	17	23	13	13	24	21	31	26	11	3	1	221
ELAN PHARMACEUTICALS, INC.																
Patents By Year of Grant:	26	14	16	7	12	21	26	20	20	26	13	8	9	2	0	220
Patents By Year of Application:	76	24	24	20	23	17	10	8	9	7	1	1	0	0	0	220
GENERAL MILLS, INC.																
Patents By Year of Grant:	80	21	10	14	8	11	3	5	3	4	6	6	15	17	17	220
Patents By Year of Application:	126	17	11	1	11	6	5	2	9	10	6	7	7	2	0	220
Nippon Steel & Sumitomo Metal Corporation																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	45	86	89	220
Patents By Year of Application:	0	0	0	2	9	6	13	19	19	45	62	36	8	1	0	220
SAINT-GOBAIN GLASS FRANCE																
Patents By Year of Grant:	1	13	7	16	11	15	12	8	15	13	26	19	10	22	32	220
Patents By Year of Application:	44	30	16	25	16	14	7	11	17	21	10	7	2	0	0	220
UNIVERSITY OF COLORADO, THE REGENTS OF																
Patents By Year of Grant:	28	1	8	7	6	10	4	11	8	15	18	15	24	36	29	220
Patents By Year of Application:	46	9	9	20	17	16	13	19	15	14	20	9	12	1	0	220
Los Alamos National Security, LLC																
Patents By Year of Grant:	0	0	0	0	0	9	16	18	32	31	25	20	33	16	18	218
Patents By Year of Application:	3	1	16	20	24	30	17	22	23	17	26	14	4	1	0	218
OREGON HEALTH SCIENCES UNIVERSITY																
Patents By Year of Grant:	86	14	8	9	5	7	6	10	9	8	14	9	11	8	14	218
Patents By Year of Application:	125	15	6	6	4	7	10	11	8	7	5	5	7	2	0	218
TEXACO INC.																
Patents By Year of Grant:	133	12	11	12	3	6	7	9	4	7	4	6	3	0	1	218
Patents By Year of Application:	169	11	10	11	2	6	2	4	2	1	0	0	0	0	0	218
UNIVERSITY OF OKLAHOMA																
Patents By Year of Grant:	75	7	9	3	6	19	18	9	17	13	10	7	6	8	11	218
Patents By Year of Application:	100	14	13	9	13	18	14	5	10	6	8	5	3	0	0	218
CITY OF HOPE																
Patents By Year of Grant:	52	10	14	12	6	9	7	10	8	6	12	17	12	18	24	217
Patents By Year of Application:	90	7	15	7	7	8	11	12	7	9	16	13	9	5	1	217

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	Pre	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
INVISTA NORTH AMERICA S.A.R.L.																	
Patents By Year of Grant:		0	0	0	12	40	21	12	11	11	12	17	12	19	14	36	217
Patents By Year of Application:		9	27	35	33	12	8	13	8	14	20	18	14	5	0	1	217
ESSILOR INTERNATIONAL COMPAGNIE GENERALE D'OPTIQUE																	
Patents By Year of Grant:		30	9	14	10	9	12	5	7	11	23	18	20	12	17	19	216
Patents By Year of Application:		66	15	17	14	16	19	10	17	15	11	8	7	1	0	0	216
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION																	
Patents By Year of Grant:		47	5	5	7	7	6	7	7	11	16	21	19	42	10	5	215
Patents By Year of Application:		67	9	8	12	11	15	20	15	11	12	26	4	5	0	0	215
TUFTS UNIVERSITY																	
Patents By Year of Grant:		29	8	10	10	5	10	8	6	11	12	15	19	32	20	20	215
Patents By Year of Application:		62	12	7	16	11	11	15	8	17	19	12	12	10	3	0	215
UNIVERSITY OF VIRGINIA ALUMNI PATENTS FOUNDATION																	
Patents By Year of Grant:		58	6	14	1	4	9	10	14	10	15	17	14	10	17	16	215
Patents By Year of Application:		87	15	12	6	19	13	13	12	9	15	4	5	2	3	0	215
WELLA AG																	
Patents By Year of Grant:		71	22	21	22	9	23	8	17	13	7	1	1	0	0	0	215
Patents By Year of Application:		122	42	12	25	11	1	1	1	0	0	0	0	0	0	0	215
BASF PLANT SCIENCE GMBH																	
Patents By Year of Grant:		1	0	1	7	1	6	20	18	22	27	28	20	22	23	18	214
Patents By Year of Application:		17	12	12	8	19	28	39	28	22	15	6	6	1	1	0	214
Lawrence Livermore National Security, LLC																	
Patents By Year of Grant:		0	0	0	0	0	0	1	11	12	23	28	37	29	44	29	214
Patents By Year of Application:		2	5	9	10	18	19	15	20	23	36	30	17	6	4	0	214
SK Hynix Inc.																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	0	0	3	23	84	104	214
Patents By Year of Application:		0	0	0	0	0	0	2	4	2	9	22	66	41	59	9	214
FURUKAWA ELECTRIC CO., LTD.																	
Patents By Year of Grant:		56	11	12	18	8	3	2	3	3	10	20	20	13	23	11	213
Patents By Year of Application:		90	14	6	2	7	8	12	22	14	16	9	7	5	1	0	213
SILVERBROOK RESEARCH PTY. LTD																	
Patents By Year of Grant:		37	8	3	11	10	28	17	22	11	23	27	11	5	0	0	213
Patents By Year of Application:		57	11	16	23	27	12	18	20	13	7	9	0	0	0	0	213

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	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
UNI-CHARM CORPORATION																
Patents By Year of Grant:	38	9	28	23	9	10	9	2	5	11	10	15	14	13	17	213
Patents By Year of Application:	94	19	8	7	10	4	15	4	19	20	6	3	4	0	0	213
BOC GROUP, INC.																
Patents By Year of Grant:	112	25	17	12	13	15	7	5	5	0	1	0	0	0	0	212
Patents By Year of Application:	164	16	11	10	4	7	0	0	0	0	0	0	0	0	0	212
STMICROELECTRONICS S.A.																
Patents By Year of Grant:	25	20	24	20	11	20	16	6	15	14	12	9	9	7	4	212
Patents By Year of Application:	77	23	15	16	19	14	16	8	2	6	6	6	3	1	0	212
ARIZONA STATE UNIVERSITY																
Patents By Year of Grant:	43	4	4	5	9	7	3	9	10	7	14	19	21	23	33	211
Patents By Year of Application:	64	9	7	17	3	7	11	13	17	12	20	16	10	4	1	211
SEMICONDUCTOR MANUFACTURING INTERNATIONAL (SHANGHAI) CORPORATION																
Patents By Year of Grant:	0	0	0	1	5	6	5	12	17	25	28	29	26	37	20	211
Patents By Year of Application:	0	1	4	16	14	32	17	32	9	23	25	13	18	7	0	211
PALO ALTO RESEARCH CENTER INCORPORATED																
Patents By Year of Grant:	0	0	0	0	3	9	14	22	16	46	23	19	18	26	13	209
Patents By Year of Application:	0	7	18	26	22	25	16	23	17	22	8	12	12	1	0	209
PROMOS TECHNOLOGIES, INC.																
Patents By Year of Grant:	28	27	20	19	24	30	18	20	15	3	4	1	0	0	0	209
Patents By Year of Application:	73	27	34	29	19	15	6	4	1	0	1	0	0	0	0	209
TETRA LAVAL HOLDINGS & FINANCE S.A.																
Patents By Year of Grant:	82	19	10	14	8	6	5	6	9	8	7	7	13	8	7	209
Patents By Year of Application:	130	16	17	7	6	5	4	4	5	11	2	2	0	0	0	209
PALL CORPORATION																
Patents By Year of Grant:	87	12	9	8	8	7	6	10	2	10	12	9	4	7	17	208
Patents By Year of Application:	124	10	5	6	9	6	9	11	2	5	7	8	1	5	0	208
RHONE-POULENC RORER, S.A.																
Patents By Year of Grant:	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
Patents By Year of Application:	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
SHIMADZU CORPORATION																
Patents By Year of Grant:	61	8	8	8	11	8	14	6	11	9	15	14	14	10	11	208
Patents By Year of Application:	88	7	9	13	22	14	20	13	5	1	7	5	3	1	0	208

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
CHINA PETROLEUM & CHEMICAL CORPORATION																
Patents By Year of Grant:	0	1	3	15	9	9	5	23	7	15	10	19	20	29	39	204
Patents By Year of Application:	14	15	20	20	14	16	14	13	15	18	26	12	6	1	0	204
BOSTON UNIVERSITY																
Patents By Year of Grant:	75	10	12	6	8	5	9	7	8	14	8	15	7	8	11	203
Patents By Year of Application:	115	7	11	5	13	4	10	5	10	11	1	8	2	1	0	203
MEIJI SEIKA KAISHA LTD.																
Patents By Year of Grant:	68	26	7	12	8	18	11	8	13	15	12	3	1	0	0	202
Patents By Year of Application:	118	26	15	7	7	10	5	9	4	1	0	0	0	0	0	202
ARKRAY, INC.																
Patents By Year of Grant:	2	0	2	8	2	11	7	15	12	24	15	21	24	31	27	201
Patents By Year of Application:	20	19	31	13	11	8	15	15	15	14	14	22	3	1	0	201
AVENTIS PHARMACEUTICALS INC.																
Patents By Year of Grant:	19	30	19	20	14	18	16	11	21	9	14	5	1	4	0	201
Patents By Year of Application:	87	25	16	15	13	11	14	8	7	1	2	2	0	0	0	201
BETZDEARBORN INC.																
Patents By Year of Grant:	191	7	2	0	1	0	0	0	0	0	0	0	0	0	0	201
Patents By Year of Application:	200	1	0	0	0	0	0	0	0	0	0	0	0	0	0	201
DARTMOUTH COLLEGE																
Patents By Year of Grant:	35	6	7	3	5	11	12	5	9	12	17	19	22	18	20	201
Patents By Year of Application:	55	13	15	4	12	14	14	5	11	20	15	16	7	0	0	201
KOREA KUMHO PETROCHEMICAL CO., LTD.																
Patents By Year of Grant:	58	12	22	7	10	12	7	4	2	4	8	18	12	17	8	201
Patents By Year of Application:	89	14	12	8	8	5	5	10	16	7	15	10	1	1	0	201
AVON PRODUCTS, INC.																
Patents By Year of Grant:	48	5	14	2	3	9	6	5	9	13	7	17	19	20	23	200
Patents By Year of Application:	74	10	10	11	12	7	10	9	6	16	15	12	5	3	0	200
BIOGEN IDEC MA INC.																
Patents By Year of Grant:	0	0	0	2	5	10	16	15	20	23	25	23	27	23	11	200
Patents By Year of Application:	14	12	18	20	12	21	23	10	18	16	15	14	6	1	0	200
KONICA MINOLTA HOLDINGS, INC.																
Patents By Year of Grant:	0	0	0	2	3	22	27	21	16	24	17	14	19	25	10	200
Patents By Year of Application:	1	1	19	56	26	27	17	19	11	13	7	2	1	0	0	200

---- Organizational Patenting (Granted: Jan 01, 1996 - Dec 31, 2015) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre																
	2002	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL	
ROCHE MOLECULAR SYSTEMS, INC.																	
Patents By Year of Grant:	31	3	4	5	2	5	7	10	12	13	28	18	12	25	25	200	
Patents By Year of Application:	48	5	11	7	13	17	14	11	16	14	28	9	6	1	0	200	
TESSERA, INC.																	
Patents By Year of Grant:	67	20	12	14	7	4	8	4	5	9	11	7	9	15	8	200	
Patents By Year of Application:	106	12	7	8	10	8	4	6	2	15	9	0	8	5	0	200	
Other Organizations (60214)																	
Patents By Year of Grant:	96180	17819	16742	14897	11838	13053	12502	11986	13244	19023	19984	22447	25003	27367	28045	350130	
Patents By Year of Application:	145572	20782	18141	16426	15709	16794	17707	17679	17669	18488	17579	14242	9261	3682	399	350130	