

I. Annual Statistics



I. Patent Applications Filed & Disposed

A. General Statistics of Patent Cases (1993-2012)

Year \ Item	Application	Approval	Certificate Issued	Grant
1993	41,185	22,317	19,266	-
1994	42,412	19,032	15,136	-
1995	43,461	29,707	22,907	-
1996	47,055	29,469	25,529	-
1997	53,164	29,356	26,935	-
1998	54,003	25,051	23,640	-
1999	51,921	29,144	24,338	-
2000	61,231	38,665	31,096	-
2001	67,860	53,789	43,277	-
2002	61,402	45,042	44,101	-
2003	65,742	53,034	42,082	-
2004	72,082	27,717	66,490	21,893
2005	79,442	0	58,306	57,236
2006	80,988	0	49,315	48,774
2007	81,834	0	49,290	49,006
2008	83,613	0	42,366	42,283
2009	78,425	0	43,750	43,724
2010	80,494	0	45,973	45,966
2011	82,988	0	50,314	50,305
2012	85,073	0	56,612	56,610

Note : "Application" is the number of applications for each individual year. "Approval" is the number of published approvals. This system was replaced by the patent granted system on July 1, 2004, which issues a certificate at the same time the approval is published. "Certificate Issued" is the number of certificates actually being issued.



B. Statistics on Patent from 2003 to 2012

1. Patent Cases Filed & Disposed

Year \ Item	Application	Reexamination	Opposition	Invalidation	Assignment	Licensing
2003	65,742	13,325	1,867	512	3,561	199
2004	72,082	7,084	1,197	811	3,835	431
2005	79,442	1,786	-	1,583	3,779	257
2006	80,988	2,545	-	1,294	4,261	235
2007	81,834	2,607	-	1,159	4,314	412
2008	83,613	1,738	-	1,034	4,685	108
2009	78,425	2,331	-	980	4,333	140
2010	80,494	2,867	-	951	3,831	164
2011	82,988	3,432	-	792	4,367	116
2012	85,073	4,540	-	828	4,926	647

Note: 1. The figures for "Application", "Reexamination", "Opposition", and "Invalidation" reflect the total number of cases applied each year.

2. The figures for "Assignment" and "Licensing" reflect the total number of cases concluded each year.

3. The drop in reexamination applications is due to the fact that examination for utility model patents was changed to formality examination from July 1, 2004, thus no more reexamination applications were filed.

4. Due to the fact that the opposition system was abolished from July 1, 2004, no more opposition applications were filed after October 2004.

2. Invention Patents Filed & Disposed

Year \ Item	Application	Pre-grant Publication	Request for Examination	Reexamination	Rejection	Approval	Certificate Issued	Grant
2003	35,823	8,194	21,269	8,503	14,354	25,134	21,752	-
2004	41,919	28,917	27,334	5,528	9,216	14,688	28,583	5,766
2005	47,841	41,441	34,488	1,482	4,886	-	20,800	20,626
2006	50,111	44,778	43,348	2,129	6,028	-	23,324	23,228
2007	51,676	46,979	46,093	2,314	5,353	-	22,315	22,218
2008	51,909	50,140	45,938	1,537	5,115	-	12,891	12,867
2009	46,654	52,617	40,905	2,143	8,938	-	14,152	14,138
2010	47,442	44,962	41,115	2,758	10,806	-	16,348	16,345
2011	50,082	46,157	43,528	3,305	14,916	-	20,028	20,025
2012	51,189	51,592	44,457	4,467	20,923	-	25,536	25,536

Note: 1. The number of rejections is based on the number of rejections after examination and reexamination. "Approval" is the number of published approvals. This system was replaced by the patent granted system on July 1, 2004, which issues the certificate at the same time the approval is published. "Certificate Issued" is the number of certificates actually being issued.

2. The figures for pre-grant publication are sourced from the total number of pre-grant publication applications. The pre-grant publication system was implemented on October 26, 2002. Figures reflecting cases from such system were available as of May 1, 2003.

3. The number of request for examination is the total number of applications filed for each individual year. This system has been implemented since October 26, 2002.

3. Utility Model Patents Filed & Disposed

Item Year	Application	Reexamination	Rejection	Approval	Certificate Issued	Grant	Requests for Technical Evaluation Report	Issuance of Technical Evaluation Report
2003	21,935	3,551	11,165	21,439	15,505	-	-	-
2004	21,518	1,035	3,303	9,492	30,434	14,064	496	0
2005	23,226	-	295	-	30,926	30,118	2,431	1,155
2006	23,279	-	108	-	19,828	19,407	2,278	2,784
2007	22,715	-	144	-	20,950	20,769	2,578	2,074
2008	23,953	-	226	-	23,468	23,411	2,650	2,646
2009	25,032	-	218	-	23,603	23,591	2,606	1,448
2010	25,832	-	240	-	23,937	23,935	2,566	2,487
2011	25,170	-	319	-	24,043	24,037	2,301	2,824
2012	25,636	-	321	-	24,644	24,643	2,366	2,574

Note: 1. The number of rejections is based on the number of rejections after examination and reexamination. "Approval" is the number of published approvals. This system was replaced by the patent granted system on July 1, 2004, which issues the certificate at the same time the approval is published. "Certificate Issued" is the number of certificates actually being issued.

2. "Requests for Technical Evaluation Report" is the number of applications for technical evaluation. "Issuance of Technical Evaluation Report" is the number of requests received and technical evaluation report issued. The system took effect on July 1, 2004.

3. Examination of utility model patent is changed to formality examination since July 1, 2004, thus no reexamination cases from 2005 on.

4. Design Patents Filed & Disposed

Item Year	Application	Reexamination	Rejection	Approval	Certificate Issued	Grant
2003	7,984	1,271	3,464	6,461	4,825	-
2004	8,645	521	1,864	3,537	7,473	2,063
2005	8,375	304	1,793	-	6,580	6,492
2006	7,598	416	1,758	-	6,163	6,139
2007	7,443	293	1,437	-	6,025	6,019
2008	7,751	201	1,288	-	6,007	6,005
2009	6,739	188	1,098	-	5,995	5,995
2010	7,220	109	843	-	5,688	5,686
2011	7,736	127	710	-	6,243	6,243
2012	8,248	73	630	-	6,432	6,431

Note: The number of rejections is based on the number of rejections after examination and reexamination. "Approval" is the number of published approvals. This system was replaced by the patent granted system on July 1, 2004, which issues the certificate at the same time the approval is published. "Certificate Issued" is the number of certificates actually being issued.



5. Patent Opposition and Invalidation

Year \ Item	Opposition		Invalidation	
	Sustained	Denied	Sustained	Denied
2003	524	973	261	366
2004	648	1,279	142	266
2005	460	1,096	172	370
2006	210	448	354	504
2007	42	67	605	743
2008	6	11	523	646
2009	4	4	719	602
2010	3	3	522	453
2011	2	5	480	474
2012	3	2	484	448

Note: 1. The figures reflect the total cases concluded each year.

2. In addition to sustained and denied cases, other conditions such as withdrawal or rejection are not included in the chart.

6. Patent Administrative Appeals, 2005 - 2012

Year \ Item	Administrative Appeals				
	Cases Filed	Decisions of Administrative Appeals			
		Original Decisions Revoked	Administrative Appeals Rejected	Others	Rate of Revocation
2005	1,033	96	880	37	9.48%
2006	737	91	764	22	10.38%
2007	685	45	651	29	6.21%
2008	531	57	512	14	9.78%
2009	508	46	410	16	9.75%
2010	421	39	465	15	7.51%
2011	378	28	342	8	7.41%
2012	386	29	341	8	7.67%

Note: 1. The above statistics are based on figures published by the Petitions and Appeals Committee, MOEA.

2. The "Administrative Appeals Rejected" column includes cases inadmissible and rejected. The "Others" column includes withdrawals by appellants, jurisdictional transfers, and consolidated reviews.

7. Patent Administrative Litigation Processed by the Intellectual Property Court

Item Year	Cases Received	Cases Concluded							
		Withdrawn	Plaintiff Won	Plaintiff Lost	Partially Sustained	Dismissals	Settlements	Others	Total
Jul. - Dec. 2008	93	3	6	28	0	2	0	1	40
2009	143	4	20	90	11	10	0	0	135
2010	183	5	42	109	12	5	0	0	173
2011	135	5	31	102	20	3	0	0	161
2012	126	5	14	73	7	5	0	1	105

Note: 1. The above statistics are provided by the Intellectual Property Court.

2. "Plaintiff Won" and "Partially Sustained" include appeals filed against the Ministry of Economic Affairs whose appeal decisions were revoked.

8. Residents and Non-Residents Patent Applications

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
2003	13,049	21,231	5,383	39,663	22,774	704	2,601	26,079
2004	16,747	20,809	5,464	43,020	25,172	709	3,181	29,062
2005	20,093	22,641	4,987	47,721	27,748	585	3,388	31,721
2006	21,365	22,674	4,587	48,626	28,746	605	3,011	32,362
2007	23,330	22,214	4,051	49,595	28,346	501	3,392	32,239
2008	23,868	23,195	4,276	51,339	28,041	758	3,475	32,274
2009	22,712	24,289	4,255	51,256	23,942	743	2,484	27,169
2010	22,905	24,917	4,285	52,107	24,537	915	2,935	28,387
2011	23,518	24,094	4,609	52,221	26,564	1,076	3,127	30,767
2012	23,077	24,427	5,011	52,515	28,112	1,209	3,237	32,558

9. Residents and Non-Residents Patent Approvals (2003-2004)

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
2003	6,399	20,315	4,241	30,955	18,735	1,124	2,220	22,079
2004	4,859	8,856	2,201	15,916	9,829	636	1,336	11,801

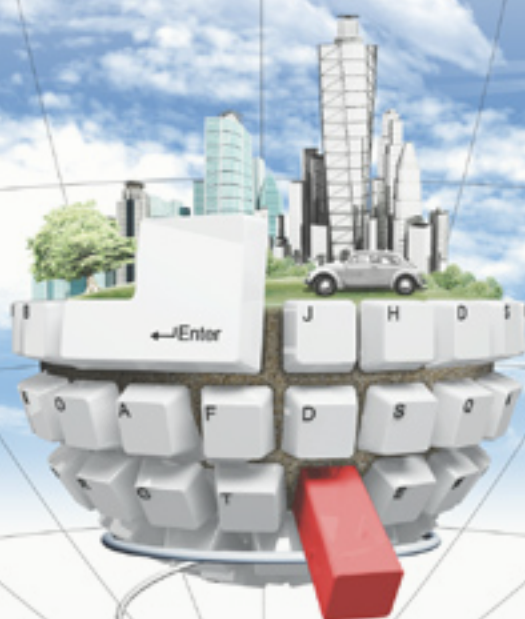
Note: The published approval system was abolished from July 1, 2004.



10. Residents and Non-Residents Patent Grants (2004-2012)

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
2004	2,662	13,637	1,302	17,601	3,104	427	761	4,292
2005	9,124	29,328	3,872	42,324	11,502	790	2,620	14,912
2006	11,431	18,857	3,485	33,773	11,797	550	2,654	15,001
2007	10,578	20,267	3,223	34,068	11,640	502	2,796	14,938
2008	6,364	22,823	3,177	32,364	6,503	588	2,828	9,919
2009	7,445	22,819	3,193	33,457	6,693	772	2,802	10,267
2010	8,423	23,178	3,455	35,056	7,922	757	2,231	10,910
2011	10,112	23,095	3,717	36,924	9,913	942	2,526	13,381
2012	12,177	23,528	3,940	39,645	13,359	1,115	2,491	16,965

Note: The patent granted system issues the certificate at the same time the approval is published.
This system took effect on July 1, 2004.



C. Statistics on Patent-by Classification

1. Invention Applications and Grants by Classification in Recent 3 Years

Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
A01	372	376	398	114	133	219
A21	31	25	20	1	11	14
A22	2	1	0	2	5	1
A23	241	249	259	61	85	106
A24	40	48	53	11	10	11
A41	53	68	58	17	18	13
A42	13	18	7	2	4	12
A43	61	66	57	10	10	21
A44	60	82	89	19	18	50
A45	65	86	62	17	18	38
A46	31	27	39	3	7	16
A47	388	367	441	116	158	175
A61	2,158	2,166	2,395	571	789	1,022
A62	38	41	54	7	10	10
A63	420	354	319	181	147	270
A99	0	0	1	0	0	0
B01	422	451	568	150	208	328
B02	11	15	26	9	12	8
B03	18	13	10	3	9	16
B04	4	10	6	2	3	2
B05	199	217	183	97	179	98
B06	1	3	2	4	1	1
B07	17	15	16	1	10	9
B08	51	56	70	39	43	40
B09	34	33	15	5	9	11
B21	123	142	132	92	75	89
B22	81	77	79	27	24	40
B23	447	504	523	188	202	267
B24	159	179	204	56	71	71
B25	383	340	329	226	306	294
B26	89	67	74	33	36	47



Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
B27	34	23	17	20	24	14
B28	22	28	29	9	9	9
B29	460	502	456	107	140	158
B30	13	20	37	14	8	10
B31	8	7	18	5	6	10
B32	294	364	521	111	93	136
B41	179	188	261	179	163	87
B42	21	18	17	16	11	10
B43	40	31	11	24	15	11
B44	62	73	55	26	12	31
B60	355	360	389	229	237	195
B61	27	23	27	10	10	14
B62	447	362	405	187	204	346
B63	33	37	58	11	16	35
B64	5	11	12	3	7	12
B65	591	629	696	333	370	396
B66	43	39	47	18	43	54
B67	22	15	8	8	17	6
B68	0	0	1	0	0	0
B81	69	41	32	16	36	57
B82	50	40	54	8	18	12
C01	282	290	326	64	89	132
C02	125	143	165	32	39	38
C03	198	292	358	70	76	128
C04	120	147	160	34	43	50
C05	19	8	14	2	2	5
C06	1	0	2	0	1	0
C07	1,608	1,653	1,576	548	540	646
C08	1,217	1,385	1,551	334	384	629
C09	821	969	1,187	219	306	482
C10	103	109	96	14	27	41

Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
C11	68	70	97	17	25	34
C12	287	324	364	145	134	172
C13	8	1	5	0	0	0
C14	3	0	8	0	1	0
C21	54	57	71	20	19	21
C22	142	166	211	41	57	83
C23	545	702	714	156	162	224
C25	145	156	179	50	57	65
C30	126	95	105	28	39	49
C40	5	3	5	0	0	2
D01	63	71	62	43	40	42
D02	9	15	15	8	7	7
D03	30	28	29	12	30	18
D04	56	68	49	33	55	55
D05	42	49	53	20	58	30
D06	95	103	139	51	83	84
D07	2	1	1	0	0	0
D21	42	36	34	20	25	24
D99	0	0	0	0	0	0
E01	34	29	33	7	15	9
E02	53	71	64	27	18	29
E03	33	48	57	17	20	20
E04	165	203	175	89	71	64
E05	112	121	155	73	78	86
E06	81	84	92	27	29	40
E21	8	11	15	8	8	5
F01	38	29	36	43	35	62
F02	95	97	87	77	74	79
F03	180	163	181	14	47	31
F04	189	239	281	120	90	112
F15	8	16	20	13	8	9
F16	755	708	593	322	335	350
F17	30	33	27	4	13	18
F21	712	685	641	109	144	269



Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
F22	18	9	9	1	2	6
F23	63	70	74	36	29	51
F24	200	207	223	69	69	133
F25	44	70	74	48	57	35
F26	18	16	31	12	11	8
F27	26	33	45	11	15	21
F28	198	151	158	51	51	42
F41	28	31	29	30	12	21
F42	7	5	6	2	1	0
G01	1,908	1,908	1,940	484	657	942
G02	2,088	1,878	2,196	860	1,223	1,780
G03	1,129	990	997	414	459	663
G04	29	34	26	7	16	28
G05	314	339	295	152	165	226
G06	5,151	5,093	5,245	1,325	1,640	1,912
G07	61	54	53	30	31	44
G08	206	203	227	36	57	105
G09	1,021	937	875	332	606	720
G10	151	141	126	50	85	68
G11	871	678	669	587	680	624
G12	16	6	7	3	2	3
G21	46	38	49	7	25	32
G99	0	0	1	0	0	0
H01	7,099	7,548	8,833	2,561	3,285	4,610
H02	961	1,126	1,283	446	549	649
H03	769	741	571	506	613	481
H04	4,423	4,033	3,612	1,358	1,627	2,245
H05	1,743	2,115	2,096	618	724	941
X	570	603	496	0	0	0

Note: Patent application figures, in consideration of the time period differentiated between application collection and classification, may not be available by the publication deadline for the annual report. Therefore, figures from prior three years are used as the basis of the said statistics.

2. Utility Model Applications and Grants by Classification in Recent 3 Years

Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
A01	615	651	614	561	584	641
A21	51	68	56	54	43	63
A22	8	5	12	5	8	8
A23	114	128	128	116	98	123
A24	30	27	14	25	21	20
A41	251	279	278	248	236	308
A42	138	104	130	129	100	119
A43	173	215	221	188	205	213
A44	137	105	119	102	110	104
A45	475	575	618	462	578	615
A46	45	56	57	41	58	50
A47	2,121	2,279	2,120	2,002	2,123	2,065
A61	1,028	1,208	1,128	1,092	1,105	1,171
A62	95	112	97	104	90	94
A63	702	720	670	697	644	660
A99	0	0	1	0	0	0
B01	269	278	289	234	275	273
B02	27	49	28	30	42	24
B03	7	5	4	8	4	3
B04	5	7	4	7	7	2
B05	157	171	180	149	189	148
B06	0	2	2	1	1	1
B07	25	36	22	32	29	21
B08	47	55	40	44	45	51
B09	10	14	16	11	13	14
B21	93	111	109	102	116	95
B22	18	17	21	21	14	19
B23	419	366	419	357	399	444
B24	118	101	114	78	116	109
B25	543	554	443	550	465	467
B26	113	154	113	122	122	123
B27	54	59	56	57	49	52
B28	10	17	18	12	20	17
B29	198	278	234	238	221	252
B30	15	23	25	14	23	44
B31	13	14	20	12	17	17
B32	123	119	169	117	131	159
B41	100	112	111	105	108	116
B42	108	112	117	100	108	90
B43	128	146	148	125	152	132
B44	68	75	79	77	73	53
B60	746	812	795	716	755	839



Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
B61	4	5	5	5	5	4
B62	1,113	844	723	915	711	723
B63	41	40	59	40	41	54
B64	10	8	10	5	10	8
B65	1,135	1,117	1,039	1,071	1,006	1,057
B66	70	76	70	65	76	73
B67	26	37	22	30	25	27
B68	1	1	2	2	0	3
B81	2	2	2	2	1	1
B82	2	0	2	1	0	2
C01	8	12	6	9	7	14
C02	59	54	44	57	43	58
C03	11	15	24	12	21	30
C04	4	5	4	2	2	3
C05	4	4	5	3	2	4
C06	0	6	1	3	3	4
C07	1	0	0	0	0	1
C08	8	7	6	7	4	6
C09	21	11	12	7	16	13
C10	4	5	5	4	5	3
C11	16	16	13	14	10	11
C12	14	28	19	20	21	26
C13	0	0	1	0	1	0
C14	0	0	0	0	0	0
C21	2	5	8	2	9	3
C22	3	1	3	0	3	0
C23	17	33	37	22	38	29
C25	40	48	43	51	40	50
C30	5	9	13	8	11	16
C40	0	0	0	0	0	0
D01	17	24	15	20	21	16
D02	8	10	6	6	9	9
D03	28	27	19	31	21	21
D04	76	62	67	83	59	66
D05	67	64	74	64	70	63
D06	100	96	100	98	85	101
D07	3	5	3	6	4	3
D21	7	7	7	8	4	5
D99	0	0	0	0	0	0
E01	46	50	53	53	47	51
E02	94	86	84	73	86	76
E03	132	136	140	115	138	134
E04	505	461	464	479	435	411
E05	314	285	294	266	282	330

Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
E06	319	375	312	316	342	312
E21	9	10	3	11	4	2
F01	61	69	45	61	58	33
F02	96	73	73	71	71	78
F03	151	145	157	157	125	149
F04	214	217	246	222	197	291
F15	12	16	11	11	16	16
F16	855	869	867	822	859	847
F17	27	23	28	27	32	17
F21	976	1,029	991	953	983	971
F22	4	8	6	7	5	4
F23	80	104	77	85	80	86
F24	491	469	482	439	444	445
F25	78	70	55	77	60	67
F26	13	18	24	13	23	23
F27	10	19	16	19	12	19
F28	65	61	80	48	90	63
F41	70	66	76	62	69	75
F42	6	11	11	12	10	20
G01	474	548	524	497	500	557
G02	535	477	479	522	450	433
G03	144	126	159	118	132	169
G04	40	49	42	42	38	42
G05	48	58	55	52	54	55
G06	1,102	1,227	1,327	1,145	1,170	1,312
G07	80	48	58	73	53	48
G08	169	197	202	180	169	207
G09	267	282	229	238	244	216
G10	91	55	75	73	60	66
G11	184	142	113	159	121	108
G12	12	8	6	11	6	4
G21	3	3	4	5	2	5
G99	1	0	0	1	0	0
H01	2,817	2,895	2,817	2,730	2,859	2,577
H02	453	452	482	432	450	497
H03	62	55	27	56	36	28
H04	561	572	542	549	537	532
H05	870	861	905	835	807	941
X	167	204	220	0	0	0

Note: Patent application figures, in consideration of the time period differentiated between application collection and classification, may not be available by the publication deadline for the annual report. Therefore, figures from prior three years are used as the basis of the said statistics.



3. Design Applications and Grants by Classification in Recent 3 Years

Classification	Application			Grant		
	2009	2010	2011	2010	2011	2012
01	29	23	65	19	12	32
02	231	215	248	207	157	216
03	121	113	126	96	96	124
04	39	44	40	17	38	32
05	51	44	80	23	50	65
06	299	293	372	251	279	329
07	218	317	291	158	265	254
08	278	376	360	230	302	328
09	381	372	460	299	386	420
10	145	148	164	143	119	144
11	152	171	309	112	167	233
12	543	579	601	498	563	506
13	560	644	624	509	513	498
14	1,077	1,059	1,081	1,037	914	911
15	242	324	366	220	245	312
16	285	271	226	238	251	244
17	17	10	1	10	7	3
18	11	14	22	8	17	15
19	109	123	137	88	106	108
20	30	40	41	25	37	36
21	180	249	272	155	223	219
22	16	23	27	16	17	25
23	396	417	426	339	372	330
24	121	133	163	131	101	132
25	201	174	179	180	146	136
26	635	655	646	438	574	495
27	14	15	16	16	11	16
28	204	209	247	151	194	207
29	8	5	5	7	8	7
30	19	33	24	10	15	26
31	31	27	35	23	23	28
99	45	50	0	32	35	0
x	51	50	81	0	0	0

Note: Patent application figures, in consideration of the time period differentiated between application collection and classification, may not be available by the publication deadline for the annual report. Therefore, figures from prior three years are used as the basis of the said statistics.

4. Invention Applications by International Patent Classification (IPC) in 2011 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	6,190
2	G06F	Electric digital data processing	4,118
3	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	1,506
4	G02B	Optical elements, systems, or apparatus	1,191
5	A61K	Preparations for medical, dental, or toilet purposes	1,164
6	H04N	Pictorial communication	1,138
7	G02F	Liquid crystal display (LCD), electrophoresis display (EPD)	957
8	C07D	Heterocyclic compounds	903
9	H04L	Transmission of digital information	862
10	H01R	Electrically-conductive connections	773
11	H04W	Wireless communication networks	729
12	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor; exposure apparatus	685
13	G09G	Arrangements or circuits for control of indicating devices using static means to present variable information	672
14	C23C	Coating metallic material; coating material with metallic material	667
15	G06Q	Electronic commerce	607
16	G01N	Investigating or analysing materials by determining their chemical or physical properties	592
17	G01R	Measuring electric variables; measuring magnetic variables	582
18	H01M	Processes or means for directly converting chemical energy into electrical energy	579
19	B32B	Layered products	521
20	H05B	Electric heating; electric lighting not otherwise provided for; organic light emitting diodes (OLED)	499

Note: 1. The order of placement is arranged by the number of applications in 2011, from most to least.

2. For detailed IPC subject, please refer to International Patent Classification version 2010.01.

3. Patent application figures, in consideration of the time period differentiated between application collection and classification, may not be available by the publication deadline for the annual report. Therefore, figures from prior one year are used as the basis of the said statistics.



5. Utility Model Applications by International Patent Classification (IPC) in 2011 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01R	Electrically-conductive connections	1,470
2	G06F	Electric digital data processing	1,016
3	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	770
4	F21V	Lighting devices	725
5	B65D	Containers for storage or transport of articles or materials	673
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	658
7	A47G	Household or table equipment	591
8	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	402
9	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	344
10	A47C	Chairs; sofas; beds	323
11	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	316
12	E06B	Shutter	301
13	A45C	Purses; luggage; hand carried bags	265
14	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	251
15	B25B	Tools or bench devices	247
16	B62J	Cycle saddles or seats; accessories peculiar to cycles and not otherwise provided for	244
17	B01D	Separation	239
18	A01G	Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops, or seaweed; forestry; watering	235
19	A61H	Physical therapy apparatus	215
20	A45D	Hairdressing or shaving equipment; manicuring or other cosmetic treatment	213

Note: 1. The order of placement is arranged by the number of applications in 2011, from most to least.

2. For detailed IPC subject, please refer to International Patent Classification version 2010.01.

3. Patent application figures, in consideration of the time period differentiated between application collection and classification, may not be available by the publication deadline for the annual report. Therefore, figures from prior one year are used as the basis of the said statistics.

6. Design Applications by International Classification for Industrial Design System (LOC) in 2011 (TOP 20)

Rank	LOC	LOC Subject	Total
1	13-03	Equipment for distribution or control of electric power	464
2	14-03	Communications equipment, wireless remote controls and radio amplifiers	388
3	14-02	Data processing equipment as well as peripheral apparatus and devices	368
4	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	280
5	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	238
6	28-03	Toilet articles and beauty parlor equipment	211
7	26-04	Luminous sources, electrical or not	189
8	26-06	Luminous devices for vehicles	186
9	14-99	miscellaneous (equipment)	185
10	26-05	Lamps, standard lamps, chandeliers, wall and ceiling fixtures, lampshades, reflectors, photographic and cinematographic projector lamps	181
11	11-02	Trinkets, table, mantel and wall ornaments, flower vases and pots	174
12	21-01	Games and toys	167
13	23-01	Fluid distribution equipment	161
14	16-06	Optical articles	154
15	23-04	Ventilation and air-conditioning equipment	143
16	14-01	Equipment for the recording or reproduction of sounds or pictures	140
17	12-11	Cycles and motorcycles	137
18	11-01	Jewellery	131
19	09-03	Boxes, cases, containers, (preserve) tins or cans	126
20	13-02	Power transformers, rectifiers, batteries and accumulators	124
20	25-02	Building parts (prefabricated or pre-assembled)	124

Note: 1. The order of placement is arranged by the number of applications in 2011, from most to least.

2. Patent application figures, in consideration of the time period differentiated between application collection and classification, may not be available by the publication deadline for the annual report. Therefore, figures from prior one year are used as the basis of the said statistics.



7. Invention Grants by International Patent Classification (IPC) in 2012 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	3,082
2	G06F	Electric digital data processing	1,467
3	G02F	Liquid crystal display (LCD), electrophoresis display (EPD)	1,286
4	H04L	Transmission of digital information	700
5	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	625
6	G09G	Arrangements or circuits for control of indicating devices using static means to present variable information	621
7	A61K	Preparations for medical, dental, or toilet purposes	608
8	H04N	Pictorial communication	523
9	G02B	Optical elements, systems, or apparatus	476
10	H04B	Transmission	472
11	H01R	Electrically-conductive connections	446
12	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor; exposure apparatus	383
13	G01R	Measuring electric variables; measuring magnetic variables	368
14	G11B	Information storage based on relative movement between record carrier and transducer	331
15	C07D	Heterocyclic compounds	318
16	G11C	Static stores	293
17	H01M	Processes or means for directly converting chemical energy into electrical energy	286
18	H05B	Electric heating; electric lighting not otherwise provided for; organic light emitting diodes (OLED)	274
19	G03B	apparatus or arrangements for taking photographs or for projecting or viewing them; accessories therefor	254
20	H02M	Apparatus for conversion AC/AC, AC/DC, or DC/DC, and for power supply systems; conversion of DC or AC input into surge output; control or regulation thereof	245

Note: 1. The order of placement is arranged by the number of grants in 2012, from most to least.

2. For detailed IPC subject, please refer to International Patent Classification version 2011.01.

8. Utility Model Grants by International Patent Classification (IPC) in 2012 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01R	Electrically-conductive connections	1,305
2	G06F	Electric digital data processing	987
3	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	818
4	F21V	Lighting devices	726
5	B65D	Containers for storage or transport of articles or materials	662
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	620
7	A47G	Household or table equipment	540
8	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	418
9	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	359
10	A47C	Chairs; sofas; beds	332
11	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	308
12	E06B	Shutter	298
13	B25B	Tools or bench devices	285
14	A45C	Purses; luggage; hand carried bags	271
15	A01G	Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops, or seaweed; forestry; watering	263
16	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	260
17	B62J	Cycle saddles or seats; accessories peculiar to cycles and not otherwise provided for	241
18	A61H	Physical therapy apparatus	228
19	B29C	Shaping or joining of plastics; shaping of substances in a plastic state, in general; after-treatment of the shaped products	226
20	B01D	Separation	225

Note: 1. The order of placement is arranged by the number of grants in 2012, from most to least.
2. For detailed IPC subject, please refer to International Patent Classification version 2011.01.



9. Design Grants by International Classification for Industrial Design System (LOC) in 2012 (TOP 20)

Rank	LOC	LOC Subject	Total
1	13-03	Equipment for distribution or control of electric power	397
2	14-03	Communications equipment, wireless remote controls and radio amplifiers	331
3	14-02	Data processing equipment as well as peripheral apparatus and devices	290
4	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	254
5	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	217
6	28-03	Toilet articles and beauty parlor equipment	179
6	16-06	Optical articles	179
8	26-04	Luminous sources, electrical or not	160
9	11-02	Trinkets, table, mantel and wall ornaments, flower vases and pots	158
10	14-99	Miscellaneous (equipment)	149
11	26-06	Luminous devices for vehicles	148
12	14-01	Equipment for the recording or reproduction of sounds or pictures	141
13	21-01	Games and toys	136
14	06-01	Seats	128
15	26-05	Lamps, standard lamps, chandeliers, wall and ceiling fixtures, lampshades, reflectors, photographic and cinematographic projector lamps	120
16	03-01	trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	117
17	23-04	Ventilation and air-conditioning equipment	116
18	02-04	Footwear, socks and stockings	115
19	12-11	Cycles and motorcycles	111
20	09-03	Boxes, cases, containers, (preserve) tins or cans	110

Note: The order of placement is arranged by the number of grants in 2012, from most to least.

10. Patent Applications by Nationality (2012)

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	23,077	24,427	5,011	52,515	61.73%
JAPAN	12,646	103	1,229	13,978	16.43%
UNITED STATES OF AMERICA	7,560	183	543	8,286	9.74%
MAINLAND CHINA	1,254	551	140	1,945	2.29%
REPUBLIC OF KOREA	1,756	17	114	1,887	2.22%
GERMANY	1,301	35	327	1,663	1.95%
SWITZERLAND	553	2	142	697	0.82%
HONG KONG	327	153	192	672	0.79%
FRANCE	412	17	86	515	0.61%
NETHERLANDS	389	0	37	426	0.50%
UNITED KINGDOM	262	7	39	308	0.36%
SINGAPORE	200	8	17	225	0.26%
SWEDEN	126	1	89	216	0.25%
ITALY	122	0	88	210	0.25%
CANADA	126	26	10	162	0.19%
CAYMAN ISLANDS	146	12	3	161	0.19%
BELGIUM	105	1	11	117	0.14%
FINLAND	85	0	17	102	0.12%
AUSTRIA	82	1	5	88	0.10%
AUSTRALIA	57	4	23	84	0.10%
BRITISH VIRGIN ISLANDS	56	17	6	79	0.09%
MALAYSIA	22	13	23	58	0.07%
ISRAEL	52	0	4	56	0.07%
DENMARK	30	1	14	45	0.05%
NORWAY	23	5	17	45	0.05%
SPAIN	31	0	13	44	0.05%
LIECHTENSTEIN	27	0	13	40	0.05%
BERMUDA	26	9	1	36	0.04%
BRAZIL	33	1	1	35	0.04%
INDIA	31	1	1	33	0.04%
LUXEMBOURG	32	0	1	33	0.04%
SAMOA	16	17	0	33	0.04%
IRELAND	28	0	0	28	0.03%
BARBADOS	25	0	0	25	0.03%
SEYCHELLES	16	4	2	22	0.03%
NEW ZEALAND	11	0	1	12	0.01%
THAILAND	6	0	3	9	0.01%
PHILIPPINES	8	0	0	8	0.01%
VIET NAM	3	1	3	7	0.01%
SOUTH AFRICA	4	0	3	7	0.01%
BELIZE	2	4	0	6	0.01%
INDONESIA	2	2	2	6	0.01%
HUNGARY	5	0	0	5	0.01%
RUSSIAN FEDERATION	3	1	1	5	0.01%
OTHERS	111	12	16	139	0.16%
Total	51,189	25,636	8,248	85,073	100.00%

Note: Countries with fewer than 5 applications are listed as "OTHERS".



11. Pre-grant Publications by Nationality (2012)

Nationality	Pre-grant Publication	Percentage
TAIWAN, REPUBLIC OF CHINA	23,262	45.09%
JAPAN	12,997	25.19%
UNITED STATES OF AMERICA	7,643	14.81%
REPUBLIC OF KOREA	1,661	3.22%
GERMANY	1,444	2.80%
MAINLAND CHINA	683	1.32%
NETHERLANDS	553	1.07%
SWITZERLAND	504	0.98%
FRANCE	426	0.83%
HONG KONG	273	0.53%
UNITED KINGDOM	264	0.51%
SINGAPORE	262	0.51%
CAYMAN ISLANDS	168	0.33%
CANADA	162	0.31%
SWEDEN	143	0.28%
BELGIUM	132	0.26%
ITALY	130	0.25%
FINLAND	127	0.25%
AUSTRALIA	82	0.16%
BRITISH VIRGIN ISLANDS	65	0.13%
AUSTRIA	62	0.12%
BERMUDA	60	0.12%
LUXEMBOURG	59	0.11%
ISRAEL	51	0.10%
SPAIN	45	0.09%
LIECHTENSTEIN	42	0.08%
INDIA	32	0.06%
DENMARK	28	0.05%
NEW ZEALAND	22	0.04%
MALAYSIA	19	0.04%
BARBADOS	18	0.03%
NORWAY	17	0.03%
HUNGARY	14	0.03%
SEYCHELLES	13	0.03%
THAILAND	13	0.03%
IRELAND	11	0.02%
BRAZIL	10	0.02%
SAMOA	9	0.02%
POLAND	8	0.02%
SAUDI ARABIA	8	0.02%
ANGUILLA	6	0.01%
BRUNEI	6	0.01%
CYPRUS	6	0.01%
PHILIPPINES	6	0.01%
SOUTH AFRICA	6	0.01%
AMERICAN SAMOA	5	0.01%
MEXICO	5	0.01%
OTHERS	30	0.06%
Total	51,592	100.00%

Note: Countries with fewer than 5 pre-grant publications are listed as "OTHERS".

12. Certificates Issued by Nationality (2012)

Nationality	Certificate Issued				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	12,177	23,529	3,941	39,647	70.03%
JAPAN	6,103	91	1,204	7,398	13.07%
UNITED STATES OF AMERICA	3,688	157	343	4,188	7.40%
REPUBLIC OF KOREA	1,129	16	112	1,257	2.22%
MAINLAND CHINA	205	550	99	854	1.51%
GERMANY	543	20	185	748	1.32%
SWITZERLAND	257	4	109	370	0.65%
HONG KONG	122	130	84	336	0.59%
NETHERLANDS	206	0	31	237	0.42%
FRANCE	160	13	58	231	0.41%
SINGAPORE	148	4	11	163	0.29%
UNITED KINGDOM	117	9	24	150	0.26%
SWEDEN	81	4	40	125	0.22%
ITALY	65	1	56	122	0.22%
CANADA	63	17	8	88	0.16%
CAYMAN ISLANDS	66	10	1	77	0.14%
FINLAND	44	1	24	69	0.12%
BRITISH VIRGIN ISLANDS	42	17	5	64	0.11%
BELGIUM	46	0	2	48	0.08%
BERMUDA	32	14	0	46	0.08%
ISRAEL	31	0	4	35	0.06%
DENMARK	29	0	5	34	0.06%
LUXEMBOURG	34	0	0	34	0.06%
MALAYSIA	6	9	15	30	0.05%
AUSTRALIA	10	7	9	26	0.05%
AUSTRIA	22	0	3	25	0.04%
SPAIN	14	2	9	25	0.04%
SAMOA	6	15	0	21	0.04%
LIECHTENSTEIN	2	0	18	20	0.04%
NORWAY	6	5	7	18	0.03%
BARBADOS	13	0	1	14	0.02%
IRELAND	11	0	0	11	0.02%
THAILAND	4	3	3	10	0.02%
BRUNEI	5	2	2	9	0.02%
BRAZIL	5	1	3	9	0.02%
INDIA	9	0	0	9	0.02%
NEW ZEALAND	6	2	0	8	0.01%
INDONESIA	1	2	4	7	0.01%
BELIZE	2	3	0	5	0.01%
OTHERS	26	6	12	44	0.08%
Total	25,536	24,644	6,432	56,612	100.00%

Note: Countries with fewer than 5 certificates issued are listed as "OTHERS".



13. Residents Patent Applications in 2012 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	HON HAI PRECISION INDUSTRY CO., LTD.	2,999	278	90	3,367
2	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	774	24	2	800
3	WISTRON CORP.	463	102	2	567
4	FAR EAST UNIVERSITY	51	433	0	484
5	ACER INCORPORATED	389	45	39	473
6	AU OPTRONICS CORP.	414	2	5	421
7	INVENTEC CORPORATION	351	0	0	351
8	SOUTHERN TAIWAN UNIVERSITY OF TECHNOLOGY	63	198	7	268
9	HTC CORPORATION	232	1	13	246
10	DELTA ELECTRONICS, INC.	200	11	10	221
11	CHENG UEI PRECISION INDUSTRY CO., LTD.	5	107	105	217
12	NATIONAL CHENG KUNG UNIVERSITY	192	19	1	212
13	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	210	0	0	210
14	CHUNGHWA TELECOM CO., LTD.	152	29	12	193
15	CHINA STEEL CORPORATION	130	53	0	183
16	LEXTAR ELECTRONICS CROPORTION	125	24	25	174
17	NATIONAL TAIWAN UNIVERSITY	165	7	1	173
18	CHI MEI COMMUNICATION SYSTEMS, INC.	120	15	37	172
19	UNITED MICROELECTRONICS CORP.	170	1	0	171
20	CHING YUN UNIVERSITY	24	135	4	163

14. Residents Patent Grants in 2012 (Top 20)

Rank	Applicant	Number of Grants			
		Invention	Utility Model	Design	Total
1	HON HAI PRECISION INDUSTRY CO., LTD.	1,003	278	116	1,397
2	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	620	9	1	630
3	AU OPTRONICS CORP.	507	0	3	510
4	CHIMEI INNOLUX CORPORATION	457	1	0	458
5	CHENG UEI PRECISION INDUSTRY CO., LTD.	5	235	155	395
6	FAR EAST UNIVERSITY	30	358	0	388
7	WISTRON CORP.	91	134	0	225
8	SOUTHERN TAIWAN UNIVERSITY OF TECHNOLOGY	27	170	8	205
9	MEDIATEK INCORPORATION	183	0	0	183
10	WUFENG UNIVERSITY	0	172	0	172
11	NATIONAL TAIWAN UNIVERSITY	154	9	1	164
12	CHUNGHWA PICTURE TUBES, LTD.	104	47	0	151
13	DELTA ELECTRONICS, INC.	128	11	10	149
14	INVENTEC CORPORATION	140	0	0	140
15	HTC CORPORATION	128	2	5	135
16	CHUNGHWA TELECOM CO., LTD.	81	46	4	131
17	KWANG YANG MOTOR CO., LTD	80	37	13	130
18	CHINA STEEL CORPORATION	73	50	0	123
19	ADVANCED SEMICONDUCTOR ENGINEERING, INC.	119	0	1	120
20	ASUSTEK COMPUTER INCORPORATED	112	0	3	115



15. Non-Residents Patent Applications in 2012 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	INTEL CORPORATION	684	8	0	692
2	TOKYO ELECTRON LIMITED	434	0	17	451
3	SUMITOMO CHEMICAL CO., LTD.	433	0	3	436
4	SONY CORPORATION	340	0	69	409
5	NITTO DENKO CORPORATION	391	0	1	392
6	PANASONIC CORPORATION	312	0	50	362
7	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	329	0	0	329
8	APPLE INC.	273	3	40	316
9	APPLIED MATERIALS, INC	289	5	4	298
10	KABUSHIKI KAISHA TOSHIBA	266	0	28	294
11	MITSUBISHI ELECTRIC CORPORATION	257	0	34	291
12	FUJIFILM CORPORATION	274	0	3	277
13	FIH (HONG KONG) LIMITED	121	6	127	254
14	BROADCOM CORPORATION	249	0	0	249
15	SHARP KABUSHIKI KAISHA	243	0	6	249
16	SAMSUNG DISPLAY CO., LTD.	239	0	0	239
17	INNOCOM TECHNOLOGY (SHENZHEN) CO., LTD.	232	0	0	232
18	3M INNOVATIVE PROPERTIES COMPANY	195	7	29	231
19	QUALCOMM INCORPORATED	218	0	0	218
20	ASAHI GLASS COMPANY, LIMITED	213	0	0	213

Note: Applicants with the same total of applications are given the same ranking, but the order of placement is arranged by the number of invention patents, from most to least.

16. Non-Residents Patent Grants in 2012 (Top 20)

Rank	Applicant	Number of Patent Grants			
		Invention	Utility Model	Design	Total
1	SONY CORPORATION	406	0	20	426
2	QUALCOMM INCORPORATED	369	0	0	369
3	PANASONIC CORPORATION	173	0	45	218
4	TOKYO ELECTRON LIMITED	195	0	15	210
5	SAMSUNG ELECTRONICS CO., LTD.	150	0	30	180
6	APPLIED MATERIALS, INC	163	0	6	169
7	INTERNATIONAL BUSINESS MACHINES CORPORATION	163	0	0	163
8	HONDA MOTOR CO., LTD.	63	0	89	152
9	INTEL CORPORATION	143	0	0	143
10	NITTO DENKO CORPORATION	132	0	1	133
11	SAMSUNG DISPLAY CO., LTD.	128	0	0	128
12	LG ELECTRONICS INC.	93	0	28	121
13	MICROSOFT CORPORATION	105	0	15	120
14	KABUSHIKI KAISHA TOSHIBA	102	0	17	119
14	MITSUBISHI ELECTRIC CORPORATION	99	0	20	119
16	HYNIX SEMICONDUCTOR INC.	111	0	0	111
17	YAMAHA HATSUDOKI KABUSHIKI KAISHA	93	2	5	100
18	FIH (HONG KONG) LIMITED	72	11	12	95
19	LG CHEM, LTD	87	0	0	87
19	LG DISPLAY CO., LTD.	87	0	0	87

Note: Applicants with the same total of grants are given the same ranking, but the order of placement is arranged by the number of invention patents, from most to least.



17. Certificates Issued by Type of Industry

Type of Industry	Corresponding International Patent Classification	Residents		Non-Residents		Total	
		Invention	Utility Model	Invention	Utility Model	No. of Certificates Issued	Percentage
Agriculture, Forest, Fishery & Animal Husbandry	A01, (exclude A01H,A01K67,A01N,A01P)	73	619	44	14	750	1.49%
Foods & Tobacco	A21-A24	44	211	88	3	346	0.69%
Domestic Articles	A41-A47	174	3,402	151	72	3,799	7.57%
Pharmaceutical & Entertainment	A61-A63, (exclude A61K & A61P,A61Q)	376	1,827	309	60	2,572	5.13%
Biotech	A01H,A01K67,A01N, A61K35/66-35/76,38,39,47/42,48,49/14,49/16, 51/08,51/10,A61P,C07K,C12,G01N33,A01P,	215	60	261	1	537	1.07%
Preparation for Medical, Dental or Toilet Purposes	A61K (exclude 35/66-35/76,38,39,47/42,48,49/14,49/16,51/08,51/10) , A61Q	157	36	372	2	567	1.13%
Separation & Mixing	B01-B09	193	523	320	14	1,050	2.09%
Working of Metal	B21-B32, (exclude B31)	608	1,733	527	48	2,916	5.81%
Printing	B41-B44	69	375	70	16	530	1.06%
Transporting	B60-B68	549	2,675	509	113	3,846	7.66%
Micro-structural technology; nano-technology	B81-B82	37	3	32	0	72	0.14%
Inorganic Chemistry, Treatment of Waste Water	C01-C05,C30	132	122	270	3	527	1.05%
Organic Chemistry	C07, (exclude C07K、C07M)	66	1	528	0	595	1.19%
Organic Macromolecular Compound	C08	107	6	522	0	635	1.27%
Dyes, Petroleum, Animal or Vegetable Oils	C09-C11	121	25	436	2	584	1.16%

Type of Industry	Corresponding International Patent Classification	Residents		Non-Residents		Total	
		Invention	Utility Model	Invention	Utility Model	No. of Certificates Issued	Percentage
Sugar Industries & Pelts/Leather	C13-C14	0	0	0	0	0	0.00%
Metallurgy, Coating Metallic Material & Alloys	C21-C23,C25 (exclude C22K)	97	77	296	5	475	0.95%
Textiles & Flexible Materials	D01-D07	68	269	168	10	515	1.03%
Paper Making & Making Paper Articles	D21,B31	11	22	23	0	56	0.11%
Fixed Constructions	E01-E06	164	1,288	84	26	1,562	3.11%
Mining or Quarrying	E21	4	2	1	0	7	0.01%
Engines and Pumps	F01-F04	150	532	134	19	835	1.66%
Hydraulics or Pneumatics in General	F15-F17	183	854	194	26	1,257	2.50%
Lighting; Heating	F21-F28	386	1,610	179	68	2,243	4.47%
Weapons; Explosive Charges	F41-F42,C06	15	99	6	0	120	0.24%
Optics	G01-G03 , (exclude G01N33)	1,727	1,077	1,598	56	4,458	8.88%
Measuring	G04-G08, (exclude G06F,G06Q)	440	472	270	12	1,194	2.38%
Semi-Conductor Applications	G09-G12	756	375	659	19	1,809	3.61%
Nuclear Engineering	G21	7	5	25	0	37	0.07%
Electric Power; Generation, Distribution or Conversion of Electric Power, Electric Heating	H02,H05	976	1,329	614	109	3,028	6.03%
Basic Electronic Elements	H 01, (exclude H01L)	780	1,746	748	211	3,485	6.94%
Semiconductor Devices	H01L	1,230	576	1,852	44	3,702	7.38%



Type of Industry	Corresponding International Patent Classification	Residents		Non-Residents		Total	
		Invention	Utility Model	Invention	Utility Model	No. of Certificates Issued	Percentage
Basic Electronic Circuitry; Electric Communication Technique	H03,H04	1,216	518	1,510	42	3,286	6.55%
Electric Digital Data Processing	G06F (exclude 17/60)	950	871	517	116	2,454	4.89%
E-business	G06F 17/60,G06Q	96	189	42	4	331	0.66%
Others		0	0	0	0	0	0.00%
Total		12,177	23,529	13,359	1,115	50,180	100.00%



18. Statistics for Valid Patent Invention & Utility Model

Classification	Invention	Utility Model
A01	1,286	2,643
A21	101	244
A22	15	33
A23	637	540
A24	108	79
A41	140	1,212
A42	45	460
A43	144	923
A44	279	520
A45	178	2,185
A46	61	202
A47	1,012	9,282
A61	5,936	5,265
A62	88	452
A63	1,309	3,379
B01	2,058	1,373
B02	86	185
B03	76	32
B04	20	27
B05	881	811
B06	13	3
B07	55	158
B08	303	249
B09	127	64
B21	808	609
B22	489	105
B23	1,893	2,499
B24	1,000	701
B25	1,599	2,844
B26	300	651
B27	148	368

Classification	Invention	Utility Model
B28	86	90
B29	1,531	1,298
B30	111	134
B31	55	108
B32	1,063	636
B41	1,538	643
B42	86	447
B43	110	533
B44	136	306
B60	1,618	3,919
B61	98	24
B62	1,862	4,048
B63	158	252
B64	41	40
B65	2,644	5,642
B66	407	399
B67	72	135
B68	1	5
B81	305	19
B82	57	2
C01	896	54
C02	425	307
C03	714	94
C04	526	12
C05	41	19
C06	7	11
C07	4,430	2
C08	4,932	30
C09	2,833	75
C10	331	16
C11	279	45



Classification	Invention	Utility Model
C 12	1,053	93
C 13	5	2
C 14	9	3
C 21	322	37
C 22	636	8
C 23	1,853	152
C 25	591	241
C 30	452	49
C 40	2	0
D 01	401	104
D 02	71	43
D 03	156	135
D 04	396	353
D 05	335	378
D 06	630	461
D 07	4	19
D 21	190	30
D 99	0	0
E 01	102	245
E 02	174	389
E 03	113	611
E 04	563	2,433
E 05	492	1,879
E 06	224	1,857
E 21	51	25
F 01	349	270
F 02	627	416
F 03	145	554
F 04	790	1,291
F 15	127	73
F 16	2,565	4,807

Classification	Invention	Utility Model
F 17	143	141
F 21	869	3,874
F 22	38	25
F 23	373	478
F 24	682	2,369
F 25	426	347
F 26	74	116
F 27	121	84
F 28	416	337
F 41	114	358
F 42	21	78
G 01	6,213	2,717
G 02	10,875	2,850
G 03	4,363	929
G 04	139	186
G 05	1,196	267
G 06	15,650	6,837
G 07	333	311
G 08	528	776
G 09	5,081	1,129
G 10	673	348
G 11	7,986	811
G 12	33	48
G 21	230	21
G 99	0	1
H 01	44,622	16,220
H 02	3,856	2,464
H 03	4,234	249
H 04	15,004	3,589
H 05	6,257	5,280
Total	192,566	127,641

Note: The figures above are calculated based on existing patents as of December 31, 2012.

Design

Classification	Design	Classification	Design
01	94	20	189
02	941	21	1,104
03	548	22	163
04	227	23	1,988
05	225	24	774
06	1,508	25	791
07	1,075	26	2,268
08	1,782	27	87
09	2,115	28	1,005
10	982	29	37
11	667	30	86
12	3,692	31	176
13	2,656	32	1
14	5,758	40	1
15	1,702	46	2
16	1,338	50	1
17	35	99	125
18	95	Total	34,927
19	689		

Note: The figures above are calculated based on existing patents as of December 31, 2012.

19. Statistics of Pending Patent Applications for Examination (2004~2012)

Year	Application			Reexamination		Opposition			Invalidation			Technical Evaluation Report for Utility Model	Total
	Invention	Utility Model	Design	Invention	Design	Invention	Utility Model	Design	Invention	Utility Model	Design		
2004	43,978	14,818	7,901	14,862	371	439	1,649	149	211	874	70	485	85,807
2005	52,757	4,725	8,027	11,046	196	213	474	2	305	1,738	92	1,719	81,294
2006	62,937	6,634	6,703	9,256	335	48	25	-	411	2,028	73	1,204	89,654
2007	90,824	7,340	7,029	7,641	291	1	4	-	501	1,703	85	1,693	117,112
2008	123,123	6,161	7,103	5,907	180	1	-	-	517	1,595	67	1,732	146,386
2009	140,646	6,410	6,034	4,627	124	-	1	-	461	1,244	37	2,873	162,457
2010	153,691	7,609	6,202	4,154	115	-	1	-	428	1,176	56	2,918	176,350
2011	160,479	8,556	6,224	4,284	74	-	-	-	346	1,049	80	2,383	181,818
2012	152,509	8,365	6,395	4,834	34	-	-	-	334	981	68	2,161	175,681

Note: 1. Since July 1, 2004, Utility Model patents applications have only been subject to formality examination with the requirement that the technical evaluation reports be attached.

2. The statistics above excludes the number of applications not requesting for substantial examination. (2004: 6,239 cases; 2005: 10,509; 2006: 11,298; 2007: 11,374; 2008: 12,965; 2009: 8,501; 2010: 10,705; 2011: 12,671; 2012: 10,932)

3. Some new applications were collected via E-filing starting April 2008. Since operation procedures were different, there was a slight discrepancy in statistical data for 2008 on the number of pending cases.



D. Trend Table of Invention Requests For Examination

Number and Percentage of Requests for Examination (Shown by the Year of Filing)

Filing Year	Invention Applications (Total Applications In This Year)	In the First Year Since the Filing Date		In the Second Year Since the Filing Date		In the Third Year Since the Filing Date		After the Third Year Since the Filing Date		Sum of the Number/ Percentage of Applications Requested For Examination	
		Applications	Percentage	Applications	Percentage	Applications	Percentage	Applications	Percentage	Applications	Percentage
2002	6,221	3,430	55.14%	390	6.27%	1,577	25.35%	91	1.46%	5,488	88.22%
2003	35,823	21,962	61.31%	1,292	3.61%	8,898	24.84%	462	1.29%	32,614	91.04%
2004	41,919	25,833	61.63%	1,645	3.92%	10,236	24.42%	596	1.42%	38,310	91.39%
2005	47,841	29,641	61.96%	1,679	3.51%	11,321	23.66%	657	1.37%	43,298	90.50%
2006	50,111	31,726	63.31%	1,558	3.11%	10,724	21.40%	359	0.72%	44,367	88.54%
2007	51,676	33,315	64.47%	1,550	3.00%	10,730	20.76%	418	0.81%	46,013	89.04%
2008	51,909	32,214	62.06%	1,468	2.83%	12,315	23.73%	260	0.50%	46,257	89.11%
2009	46,654	28,508	61.11%	1,390	2.98%	11,528	24.71%	466	1.00%	41,892	89.79%
2010	47,442	27,829	58.66%	1,669	3.52%	2,169	4.57%	359	0.76%	32,026	67.51%
2011	50,082	29,089	58.08%	625	1.25%	78	0.16%	513	1.02%	30,305	60.51%
2012	51,189	29,795	58.05%	37	0.07%	83	0.16%	781	1.52%	30,696	59.80%

Date: Jan. 11, 2013

Note: 1. The number of requests for examination (including new applications, divisional applications, and conversion applications) refers to the number of requests for examination according to the provisions of Article 38.1 and 2 of the new Patent Act of the ROC.

2. Except for the divisional applications and conversion applications conforming to the provisions of Article 34 or 108 of the new Patent Act, the invention applications failing to be submitted a request for examination within three years from the filing date are deemed to have been withdrawn.

3. The percentage of requests for examination refers to the percentage of the total number of the requests for examination in each year within three years from the filing dates, divisional and conversion applications divided or converted in 30 days from the filing date according to the provisions of Articles 34 and 108 of the new Patent Act, to the total number of new applications for invention.

4. The total number of invention applications in each year, besides the new applications filed in the year, further includes the number of the divisional applications and the number of conversion applications divided or converted in the year but originally filed before the year.

E. Statistics for IC Layout Applications and Certificates Issued

Year	Application	Certificate Issued
2003	53	79
2004	56	34
2005	26	93
2006	63	28
2007	43	73
2008	37	37
2009	30	27
2010	50	48
2011	144	120
2012	160	124

➡ II. Trademark Cases Filed & Disposed

A. General Statistics of Trademark Cases (1993-2012)

Year \ Item	Application	Registration	Approval	Rejection
1993	64,799	50,773	53,707	12,681
1994	67,641	44,287	42,114	9,870
1995	63,797	41,416	43,797	6,219
1996	67,063	44,973	50,657	7,272
1997	70,502	57,541	53,973	9,306
1998	69,371	49,512	54,257	9,875
1999	73,212	60,302	56,764	7,665
2000	88,002	52,954	68,168	6,543
2001	59,158	76,413	75,731	9,467
2002	61,729	70,842	64,032	9,253
2003	65,907	74,572	54,335	7,451
2004	61,667	54,912	-	6,440
2005	63,580	55,181	-	7,929
2006	65,101	54,597	-	7,393
2007	61,454	51,326	-	7,055
2008	59,568	49,500	-	7,811
2009	59,669	48,075	-	7,728
2010	66,496	54,292	-	8,356
2011	67,620	48,315	-	6,480
2012	74,357	61,918	-	8,724

Note: 1. The figures for "Application" are calculated based on the total number of registration applications collected each year.
 2. The figures for "Registration", "Approval", and "Rejection" are calculated based on the total number of cases published each year.
 3. The published approval system was abolished from November 28, 2003; a trademark shall be registered and published after the registration fee payment is made.



B. Statistics of Trademark (2003-2012)

1. Statistics of Applications

Year \ Item	Application		Opposition	Invalidation	Revocation
	By case	By class			
2003	65,907	-	1,762	644	317
2004	61,667	72,650	1,536	440	288
2005	63,580	76,838	1,562	537	368
2006	65,101	79,767	1,637	493	453
2007	61,454	76,332	1,195	438	357
2008	59,568	75,033	1,192	363	358
2009	59,669	74,177	1,033	389	354
2010	66,496	83,072	1,010	373	648
2011	67,620	85,958	881	444	441
2012	74,357	95,435	1,009	345	570

Year \ Item	Renewal	License	Assignment	Alteration
2003	21,996	2,593	11,477	8,611
2004	21,559	2,056	7,796	5,451
2005	22,534	1,980	9,255	7,416
2006	26,155	1,864	9,418	8,461
2007	26,394	1,800	10,866	10,179
2008	29,954	1,413	8,971	9,595
2009	30,386	1,432	8,925	8,703
2010	33,554	1,148	7,937	9,722
2011	37,530	1,082	8,743	7,848
2012	35,547	1,077	9,188	8,808

Note: 1. The figures above reflect the total number of applications.

2. The term "Application" includes applications for certification mark, collective membership mark and collective trademark.

3. The term "License" includes applications for sub-license.

4. The term "Alteration" includes applications for "goods/service reduction".

5. Beginning from November 28, 2003, applications for trademark registration may contain two more types of goods or services, thus the number of applications and the number of classes are not the same.

2. Trademark Opposition

Year \ Item	Sustained	Denied	Others
2003	896	501	206
2004	806	399	261
2005	804	520	231
2006	804	445	199
2007	854	478	243
2008	705	282	268
2009	753	295	256
2010	514	195	223
2011	436	124	260
2012	324	177	250

Note: 1. The chart reflects the number of cases disposed each year.

2. The item "Others" includes rejection because of formal deficiency, withdrawal, and other type of rejection.

3. Trademark Invalidation

Year \ Item	Sustained	Denied	Others
2003	296	134	50
2004	293	94	48
2005	255	180	76
2006	267	135	65
2007	227	110	91
2008	241	94	76
2009	295	149	107
2010	220	76	91
2011	194	50	122
2012	130	70	129

Note: 1. The chart reflects the number of cases disposed each year.

2. The item "Others" includes rejection because of formal deficiency, withdrawal, application for identifying the scope of designated goods or services, and other type of rejection.



4. Trademark Revocation (Cancellation)

Year \ Item	Sustained	Denied	Others
2003	193	42	48
2004	198	39	51
2005	216	71	45
2006	307	66	73
2007	284	27	42
2008	226	43	53
2009	248	62	76
2010	484	27	56
2011	310	33	112
2012	343	41	116

Note: 1. The chart reflects the number of cases disposed each year.

2. The item "Others" includes rejection because of formal deficiency, withdrawal, and other type of rejection.

3. Beginning from November 28, 2003, "disciplinary cancellation" has been changed to "revocation".

5. Trademark Administrative Appeals, 2005 - 2012

Year \ Item	Administrative Appeals					
	Cases Filed	Decisions of Administrative Appeals				
		Original Decisions Revoked	Administrative Appeals Rejected	Others	Other Concluded Cases	Rate of Revocation
2005	1,206	142	972	0	41	12.29%
2006	1,164	136	1,086	0	57	10.63%
2007	1,217	77	1,052	0	41	6.58%
2008	1,054	85	953	0	25	8.00%
2009	1,048	78	920	0	35	7.55%
2010	906	68	930	0	27	6.63%
2011	674	34	648	0	31	4.77%
2012	835	39	770	1	11	4.75%

Note: 1. The above statistics are based on figures published by the Petitions and Appeals Committee, MOEA.

2. The "Administrative Appeals Rejected" column includes cases inadmissible and rejected. The "Other Concluded Cases" column includes withdrawals by appellants, jurisdictional transfers, and consolidated reviews.

3. The "Others" category for concluded appeals refers to partial rejection and partial cancellation.

6. Trademark Administrative Litigation Processed by the Intellectual Property Court

Year \ Item	Cases Received	Cases Concluded							
		Withdrawn	Plaintiff Won	Plaintiff Lost	Partially Sustained	Dismissals	Settlements	Others	Total
Jul. - Dec. 2008	148	3	5	43	3	8	2	2	66
2009	263	10	20	197	11	13	10	1	262
2010	254	14	14	188	14	12	1	0	243
2011	173	9	16	162	16	8	5	1	217
2012	192	8	18	122	19	1	3	0	171

Note: 1. The above statistics are provided by the Intellectual Property Court. "Plaintiff Won" and "Partially Sustained" include appeals filed against the Ministry of Economic Affairs whose appeal decisions were revoked.

2. "Settlements" refer to cases concluded by the IP court after the litigants' mutual concession to the disputes and the reaching of an agreement.

7. Residents and Non-Residents Trademark Applications (By Case)

Year \ Item	Residents	Non-Residents
2003	48,878	17,029
2004	48,613	13,054
2005	50,263	13,317
2006	51,107	14,350
2007	47,371	14,740
2008	45,876	14,244
2009	47,009	12,677
2010	50,998	15,498
2011	50,895	16,725
2012	55,696	18,661

Note: Applications for joint ownership of trademark received from July 13, 2006. The number of statistics by nationality in this table is counted by the number of applicants in terms of their nationality.

8. Residents and Non-Residents Trademark Registrations (By Case)

Year \ Item	Residents	Non-Residents
2009	52,942	21,630
2004	40,224	14,688
2005	42,782	12,399
2006	41,974	12,623
2007	39,167	12,159
2008	37,220	12,280
2009	35,650	12,425
2010	41,410	12,882
2011	36,687	11,628
2012	45,659	16,259



C. Statistics of Trademarks by Class and Nationality

1. Trademark Applications and Registrations by Class (2010-2012)

Class	Application			Registration		
	2010	2011	2012	2010	2011	2012
Total	82,956	85,824	95,327	68,034	60,415	78,735
1	1,279	1,337	1,324	1,204	906	1,284
2	360	394	358	314	253	355
3	5,356	5,384	5,727	4,105	3,704	4,663
4	493	482	551	449	337	460
5	5,616	5,414	5,455	4,717	3,954	4,842
6	911	980	1,009	931	727	889
7	1,783	1,884	1,898	1,437	1,357	1,819
8	601	655	664	544	462	612
9	6,401	7,100	7,730	5,258	4,787	6,775
10	1,242	1,264	1,352	1,047	975	1,251
11	1,878	1,989	2,192	1,629	1,494	1,922
12	1,694	1,617	1,902	1,452	1,287	1,547
13	46	49	36	32	36	39
14	1,236	1,440	1,611	1,055	964	1,357
15	102	138	152	100	92	146
16	2,562	2,340	2,713	2,157	1,869	2,318
17	630	631	611	510	519	589
18	2,478	2,603	2,766	2,085	1,736	2,463
19	505	490	473	445	411	422
20	1,322	1,324	1,530	1,113	954	1,270
21	1,578	1,495	1,907	1,294	1,080	1,536
22	134	184	186	125	130	174
23	75	102	114	71	52	112
24	977	1,011	1,124	783	737	910
25	5,698	5,439	6,001	4,528	3,891	4,814
26	389	372	419	357	322	366
27	162	238	226	131	148	230
28	1,588	1,665	1,813	1,454	1,278	1,606
29	2,834	2,964	3,354	2,384	1,981	2,656
30	5,562	5,710	6,504	4,288	3,817	4,883
31	984	956	1,155	860	684	907
32	1,472	1,405	1,723	1,307	948	1,207
33	813	1,088	1,111	690	554	929
34	302	285	357	249	210	291
35	8,158	8,923	10,471	6,415	6,225	8,284
36	1,181	1,245	1,169	886	884	1,175
37	1,126	1,123	1,253	940	876	1,053
38	944	996	1,087	812	704	906
39	518	689	791	505	419	617
40	527	558	556	429	390	548
41	3,084	3,202	3,704	2,433	2,306	2,892
42	2,332	2,450	2,746	1,943	1,676	2,222
43	4,296	4,223	5,208	3,155	2,884	3,579
44	1,143	1,320	1,567	906	941	1,201
45	584	666	727	505	454	614

Note: The above figures do not include the applications and registrations of certification mark and collective membership mark.

2. Trademark Applications by Nationality in 2012 (By Case)

Nationality	Application	Percentage	Nationality	Application	Percentage
TAIWAN, REPUBLIC OF CHINA	55,696	74.90	SAMOA	30	0.04
JAPAN	4,270	5.74	ISRAEL	28	0.04
UNITED STATES OF AMERICA	3,841	5.17	INDIA	28	0.04
MAINLAND CHINA	2,544	3.42	TURKEY	26	0.03
HONG KONG	1,095	1.47	FINLAND	25	0.03
GERMANY	823	1.11	BRUNEI	23	0.03
FRANCE	718	0.97	LIECHTENSTEIN	23	0.03
SWITZERLAND	715	0.96	BERMUDA	22	0.03
REPUBLIC OF KOREA	611	0.82	VIETNAM	19	0.03
UNITED KINGDOM	594	0.80	MALTA	16	0.02
ITALY	405	0.54	NORWAY	16	0.02
BRITISH VIRGIN ISLANDS	331	0.45	BAHAMAS	15	0.02
CAYMAN ISLANDS	300	0.40	PORTUGAL	15	0.02
SINGAPORE	286	0.38	UNITED ARAB EMIRATES	13	0.02
NETHERLANDS	274	0.37	CHILE	13	0.02
AUSTRALIA	181	0.24	MONACO	12	0.02
SPAIN	136	0.18	JORDAN	11	0.01
MALAYSIA	114	0.15	CYPRUS	10	0.01
SWEDEN	88	0.12	MAURITIUS	10	0.01
CANADA	82	0.11	PHILIPPINES	10	0.01
LUXEMBOURG	79	0.11	SAUDI ARABIA	10	0.01
BELGIUM	73	0.10	MACAO	9	0.01
DENMARK	62	0.08	SEYCHELLES	9	0.01
THAILAND	61	0.08	ARGENTINA	8	0.01
NEW ZEALAND	59	0.08	URUGUAY	7	0.01
INDONESIA	53	0.07	PANAMA	6	0.01
SOUTH AFRICA	50	0.07	CZECH REPUBLIC	5	0.01
AUSTRIA	47	0.06	GREECE	5	0.01
IRELAND	41	0.06	SRI LANKA	5	0.01
MEXICO	34	0.05	OTHERS	136	0.18
BRAZIL	33	0.04			
RUSSIAN FEDERATION	33	0.04			
BULGARIA	32	0.04			
BELIZE	31	0.04			

Subtotal		Ratio
Residents	55,696	74.90%
Non-Residents	18,661	25.10%
Total	74,357	100.00%

Note: 1. Applications for joint ownership of trademark received from July 13, 2006. The number of statistics by nationality in this table is counted by the number of applicants in terms of their nationality.

2. Countries with fewer than five applications are listed as "Others".



3. Trademark Registrations by Nationality in 2012 (By Case)

Nationality	Registration	Percentage	Nationality	Registration	Percentage
TAIWAN, REPUBLIC OF CHINA	45,659	73.74	AUSTRIA	25	0.04
JAPAN	3,619	5.84	TURKEY	25	0.04
UNITED STATES OF AMERICA	3,570	5.77	PHILIPPINES	24	0.04
MAINLAND CHINA	2,061	3.33	BERMUDA	23	0.04
GERMANY	889	1.44	SAMOA	23	0.04
HONG KONG	812	1.31	MEXICO	20	0.03
FRANCE	660	1.07	NORWAY	20	0.03
SWITZERLAND	611	0.99	VIETNAM	19	0.03
REPUBLIC OF KOREA	538	0.87	UNITED ARAB EMIRATES	18	0.03
UNITED KINGDOM	444	0.72	BELIZE	18	0.03
ITALY	402	0.65	RUSSIAN FEDERATION	16	0.03
CAYMAN ISLANDS	303	0.49	BULGARIA	15	0.02
SINGAPORE	280	0.45	MACAO	14	0.02
BRITISH VIRGIN ISLANDS	258	0.42	SAUDI ARABIA	13	0.02
NETHERLANDS	250	0.40	BARBADOS	11	0.02
CANADA	139	0.22	CZECH REPUBLIC	11	0.02
AUSTRALIA	121	0.20	MONACO	10	0.02
SPAIN	113	0.18	BAHAMAS	9	0.01
SWEDEN	93	0.15	LIECHTENSTEIN	9	0.01
MALAYSIA	78	0.13	NETHERLANDS ANTILLES	7	0.01
LUXEMBOURG	65	0.10	IRAN	7	0.01
DENMARK	58	0.09	BRUNEI	6	0.01
NEW ZEALAND	48	0.08	GREECE	6	0.01
THAILAND	48	0.08	MAURITIUS	6	0.01
INDIA	47	0.08	UKRAINE	6	0.01
IRELAND	45	0.07	ARGENTINA	5	0.01
BRAZIL	41	0.07	QATAR	5	0.01
BELGIUM	38	0.06	SEYCHELLES	5	0.01
INDONESIA	35	0.06	OTHERS	75	0.12
CYPRUS	32	0.05			
CHILE	30	0.05			
FINLAND	28	0.05			
ISRAEL	26	0.04			
SOUTH AFRICA	26	0.04			

Subtotal		Ratio
Residents	45,659	73.74%
Non-Residents	16,259	26.26%
Total	61,918	100.00%

Note: Countries with fewer than five registrations are listed as "Others".

D. Statistics for Certification Mark and Collective Membership Mark

Item Year	Certification Mark		Collective Membership Mark	
	Application	Registration	Application	Registration
1996	13	3	85	59
1997	8	6	91	73
1998	14	3	95	49
1999	13	10	100	36
2000	29	6	117	76
2001	27	32	110	68
2002	34	14	109	112
2003	36	37	91	83
2004	34	27	61	74
2005	40	33	56	41
2006	29	37	60	44
2007	30	31	55	32
2008	41	40	42	35
2009	43	27	57	41
2010	33	39	83	55
2011	64	21	70	56
2012	37	42	71	39