

02 Annual Statistics

I. Patent Applications Filed & Disposed

A. General Statistics on Patent Cases (2010-2019)

Year \ Item	Application	Approval	Certificate Issued	Grant
2010	80,380	0	45,973	46,023
2011	82,824	0	50,313	50,305
2012	85,074	0	56,611	56,608
2013	83,211	0	72,147	72,142
2014	78,015	0	76,258	76,252
2015	73,627	0	78,089	78,087
2016	72,442	0	76,406	76,406
2017	73,791	0	71,878	71,877
2018	73,421	0	62,193	62,193
2019	74,652	0	57,887	57,886

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

B. Statistics on Patent from 2010 to 2019

1. Patent Cases Filed & Disposed

Year \ Item	Application	Reexamination	Invalidation	Assignment	Licensing
2010	80,380	2,869	950	3,824	164
2011	82,824	3,439	792	4,368	116
2012	85,074	4,541	828	4,924	647
2013	83,211	6,421	660	4,735	188
2014	78,015	7,154	616	4,745	116
2015	73,627	6,871	602	5,965	63
2016	72,442	6,329	548	6,621	107
2017	73,791	5,448	525	6,176	137
2018	73,421	4,513	567	5,886	111
2019	74,652	5,220	431	5,241	98

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

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

2. Invention Patent Applications Filed & Disposed

Item Year	Application	Pre-grant Publication	Request for Examination	Reexamination	Rejection	Grant	Invalidation
2010	47,327	44,949	40,972	2,761	10,768	16,377	166
2011	49,919	46,154	43,411	3,311	14,875	20,025	122
2012	51,189	51,590	44,465	4,466	20,871	25,535	154
2013	49,217	52,123	43,447	6,350	26,287	40,249	123
2014	46,379	48,715	41,252	6,973	24,349	45,601	138
2015	44,415	47,363	40,475	6,667	21,372	48,315	122
2016	43,836	44,355	38,382	6,239	15,427	48,947	163
2017	46,122	43,676	40,124	5,343	10,383	45,710	163
2018	47,429	44,073	41,991	4,430	8,601	36,147	145
2019	48,268	48,020	42,987	5,076	9,640	34,926	123

Note: 1. Rejection decisions are rendered after examination and reexamination. "Grants" refer to approved cases that are published and issued certificates at the same time.

2. Pre-grant publication is early publication for new applications.

3. Requests for substantive examination are made every year.

3. Utility Model Patent Applications Filed & Disposed

Item Year	Application	Rejection	Grant	Requests for Technical Evaluation Report	Issuance of Technical Evaluation Report	Invalidation
2010	25,833	239	23,956	2,560	2,486	738
2011	25,170	313	24,038	2,301	2,821	622
2012	25,637	318	24,642	2,363	2,572	621
2013	25,025	264	24,844	2,273	2,676	481
2014	23,488	239	23,712	2,153	2,104	422
2015	21,404	193	22,106	1,964	2,155	406
2016	20,161	191	19,793	1,607	2,049	329
2017	19,549	174	19,037	1,553	2,075	314
2018	17,910	160	18,559	1,397	1,515	368
2019	17,580	109	16,300	1,189	1,291	264

Note: 1. Rejection decisions are rendered after examination and reexamination. "Grants" refer to approved cases that are published and issued certificates at the same time.

2. "Requests for Technical Evaluation Report" are requests for technical evaluation. "Issuance of Technical Evaluation Report" is the number of requests received and technical evaluation reports issued.

4. Design Patent Applications Filed & Disposed

Year \ Item	Application	Reexamination	Rejection	Grant	Invalidation
2010	7,220	108	841	5,690	46
2011	7,735	127	706	6,242	48
2012	8,248	75	630	6,431	53
2013	8,969	70	753	7,049	56
2014	8,148	181	868	6,939	56
2015	7,808	204	877	7,666	74
2016	8,445	90	672	7,666	56
2017	8,120	104	521	7,130	48
2018	8,082	83	643	7,487	54
2019	8,804	144	753	6,660	44

Note: Rejection decisions are rendered after examination and reexamination. "Grants" refer to approved cases that are published and issued certificates at the same time.

5. Patent Opposition and Invalidation

Year \ Item	Opposition		Invalidation										
	Sustained	Denied	Sustained				Partially Sustained			Denied			
			Invention	Model Utility	Design	Subtotal	Invention	Model Utility	Subtotal	Invention	Model Utility	Design	Subtotal
2010	3	3	-	-	-	503	-	-	0	-	-	-	413
2011	2	5	-	-	-	469	-	-	0	-	-	-	442
2012	3	2	-	-	-	462	-	-	0	-	-	-	421
2013	0	0	-	-	-	425	-	-	114	-	-	-	312
2014	0	1	-	-	-	360	-	-	135	-	-	-	309
2015	0	0	-	-	-	294	-	-	99	-	-	-	245
2016	0	0	-	-	-	277	-	-	100	-	-	-	300
2017	0	0	-	-	-	310	-	-	91	-	-	-	287
2018	0	0	-	-	-	266	-	-	86	-	-	-	233
2019	0	0	46	162	14	222	22	41	63	71	104	4	179

- Note: 1. The figures are dispositions for patent objections, confirmed invalidations, acquitted invalidations, and partially sustained invalidations of the same year.
2. There are also withdrawals, rejections, and not accepted cases in addition to sustained, acquitted, and partially sustained invalidation.
3. In January 1, 2013, invalidation adopted the system of disposition by claims. Sustained invalidation refers to all claims being sustained in the invalidation request; partially sustained refers to parts of the claims in the invalidation request are sustained, while the remaining parts are either denied or rejected; denied invalidation refers to all the claims in the invalidation request are denied or parts of them are denied and the remaining parts are rejected.
4. The outcomes of design invalidation requests include sustained and denied invalidation but no partially sustained invalidation.

6. Patent Administrative Appeals

Year \ Item	Administrative Appeals					
	Cases Filed	Decisions of Administrative Appeals				
		Original Decisions Revoked	Others	Administrative Appeals Rejected	Other Disposals	Rate of Revocation
2010	421	39	0	465	15	7.5%
2011	378	28	0	342	8	7.4%
2012	386	29	0	341	8	7.7%
2013	444	37	2	367	8	9.4%
2014	426	21	1	390	7	5.3%
2015	367	15	4	386	6	4.6%
2016	313	14	2	296	6	5.0%
2017	288	11	3	284	2	4.7%
2018	274	13	1	254	1	5.2%
2019	211	7	1	242	2	3.2%

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

2. Rejections refer to not accepted and rejection of an appeal decision; others refer to partial rejection and partial cancellation cases; other disposals include withdrawal by the appellant, transfer of jurisdiction, and bundled proceeding.

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
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
2013	133	8	16	111	12	1	0	0	148
2014	122	6	9	86	4	3	0	0	108
2015	127	3	18	87	14	6	0	0	128
2016	104	18	17	57	11	4	0	0	107
2017	103	7	16	62	11	2	0	0	98
2018	103	6	20	76	8	2	0	0	112
2019	95	3	22	77	3	2	0	0	107

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. Resident and Non-Resident Patent Applications

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
2010	22,790	24,813	4,268	51,871	24,537	1,020	2,952	28,509
2011	23,432	24,037	4,592	52,061	26,487	1,133	3,143	30,763
2012	22,949	24,378	4,955	52,282	28,240	1,259	3,293	32,792
2013	21,633	23,769	5,133	50,535	27,584	1,256	3,836	32,676
2014	18,988	22,113	4,672	45,773	27,391	1,375	3,476	32,242
2015	17,262	20,132	4,450	41,844	27,153	1,272	3,358	31,783
2016	16,866	18,998	4,579	40,443	26,970	1,163	3,866	31,999
2017	18,199	18,343	4,293	40,835	27,923	1,206	3,827	32,956
2018	18,365	16,661	4,252	39,278	29,064	1,249	3,830	34,143
2019	18,984	16,412	4,208	39,604	29,284	1,168	4,596	35,048

9. Resident and Non-Resident Patent Grants

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
2010	8,367	23,107	3,451	34,925	8,010	849	2,239	11,098
2011	10,035	23,024	3,708	36,767	9,990	1,014	2,534	13,538
2012	12,140	23,482	3,929	39,551	13,395	1,160	2,502	17,057
2013	19,532	23,617	4,229	47,378	20,717	1,227	2,820	24,764
2014	21,261	22,458	4,023	47,742	24,340	1,254	2,916	28,510
2015	21,401	20,787	4,258	46,446	26,914	1,319	3,408	31,641
2016	21,178	18,608	4,185	43,971	27,769	1,185	3,481	32,435
2017	18,569	17,934	3,629	40,132	27,141	1,103	3,501	31,745
2018	14,651	17,270	3,903	35,824	21,496	1,289	3,584	26,369
2019	14,481	15,213	3,371	33,065	20,445	1,087	3,289	24,821

Note: Under the patent granted system, certificate issuance and publication of approval take place at the same time. This system took effect on July 1, 2004.

C. Statistics on Patent by Classification

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

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
A01	347	373	415	364	277	307
A21	22	30	40	24	11	24
A22	2	4	10	2	1	4
A23	273	263	276	217	165	211
A24	77	116	107	64	79	71
A41	61	62	69	42	40	45
A42	18	18	25	11	13	16
A43	129	135	110	109	141	98
A44	98	127	58	103	118	60
A45	98	104	100	91	79	69
A46	30	28	27	14	9	13
A47	520	616	643	420	419	435
A61	2,390	2,540	2,744	2,237	1,639	1,635
A62	47	73	70	49	37	60
A63	331	304	301	340	254	242
A99	1	1	1	0	0	0
B01	452	457	466	441	454	385
B02	18	13	8	22	9	11
B03	10	12	12	8	7	10
B04	4	3	5	6	3	3
B05	185	206	171	270	151	166
B06	6	2	5	3	4	2
B07	15	11	14	26	12	11
B08	81	105	101	70	47	97
B09	21	18	17	23	13	18
B21	148	125	103	203	148	127
B22	94	67	93	103	66	76
B23	500	490	497	585	488	418
B24	205	228	215	291	204	186
B25	414	392	402	443	352	296
B26	56	55	49	64	41	47
B27	17	25	32	21	17	25

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
B28	41	31	24	39	39	27
B29	439	472	470	487	479	346
B30	19	10	6	30	11	5
B31	5	8	6	6	7	4
B32	675	680	689	564	534	567
B33	3	4	19	1	7	4
B41	174	169	155	200	188	202
B42	9	12	12	13	8	8
B43	21	32	21	27	20	18
B44	17	25	16	24	13	14
B60	341	413	534	410	346	320
B61	30	25	35	24	27	20
B62	455	477	492	498	415	385
B63	39	40	39	47	32	27
B64	28	41	31	21	45	19
B65	622	682	670	693	568	554
B66	70	50	51	74	70	50
B67	18	16	18	25	20	19
B68	0	1	1	4	1	0
B81	90	71	58	61	57	62
B82	34	47	32	45	45	37
C01	309	322	291	282	292	232
C02	153	161	142	131	112	94
C03	381	362	383	363	314	349
C04	135	141	150	151	86	110
C05	18	17	20	10	15	21
C06	1	1	2	0	0	2
C07	1,809	1,735	1,740	1,341	1,266	1,173
C08	1,849	1,945	2,004	1,575	1,344	1,331
C09	1,412	1,385	1,652	1,180	1,074	1,098
C10	55	57	67	71	53	53
C11	73	89	94	68	49	46
C12	386	438	457	288	272	274

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
C13	1	5	1	0	2	3
C14	3	1	0	3	1	3
C21	58	52	63	76	51	78
C22	350	293	294	276	259	241
C23	666	671	662	676	551	553
C25	166	192	211	198	131	151
C30	107	98	93	98	90	93
C40	2	4	1	1	2	5
D01	70	72	97	90	75	55
D02	14	31	20	20	11	8
D03	42	33	46	31	36	21
D04	71	71	85	76	58	37
D05	48	47	44	71	48	32
D06	121	136	159	76	106	113
D07	0	2	0	0	1	2
D21	30	29	59	29	29	28
D99	0	0	0	0	0	0
E01	21	29	35	33	25	25
E02	40	42	38	67	41	31
E03	60	83	38	69	52	52
E04	167	188	189	207	119	144
E05	121	178	118	112	127	130
E06	95	116	99	84	94	107
E21	3	11	9	12	5	7
F01	49	62	40	66	57	44
F02	50	63	45	99	64	64
F03	130	115	129	87	64	67
F04	234	234	275	203	233	207
F15	22	32	25	26	28	23
F16	663	670	684	671	554	574
F17	21	21	18	27	27	15
F21	209	180	167	366	201	122
F22	8	3	8	11	5	5

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
F23	43	61	59	55	61	42
F24	223	260	231	233	221	208
F25	84	92	88	101	84	70
F26	14	29	31	16	26	19
F27	26	24	33	39	45	28
F28	78	106	113	156	107	80
F41	44	25	36	42	26	28
F42	5	2	2	4	6	1
G01	1,742	1,782	2,007	1,737	1,606	1,504
G02	1,461	1,492	1,627	1,851	1,406	1,373
G03	1,023	1,091	999	1,253	963	849
G04	43	27	21	42	29	26
G05	317	343	317	309	210	290
G06	4,177	4,868	5,071	4,370	3,389	3,125
G07	81	66	62	66	62	45
G08	178	218	213	166	165	161
G09	476	475	556	704	445	404
G10	142	161	190	238	113	125
G11	527	679	610	770	618	554
G12	2	6	3	4	6	4
G16	4	14	127	0	3	27
G21	30	24	23	28	29	17
G99	1	0	0	1	0	0
H01	7,465	7,567	7,451	8,591	6,467	6,196
H02	982	983	1,027	1,014	770	868
H03	382	535	533	552	393	503
H04	2,671	2,935	3,270	2,739	1,721	1,970
H05	903	795	868	1,349	922	730
H99	0	0	0	0	0	0
X	692	736	542	0	0	0

Note: Considering time difference between application collection and classification, patent application figures may not be available by the publication deadline of the annual report. Therefore, figures from the past three years are used as the basis of the said statistics.

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

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
A01	669	728	598	729	609	527
A21	71	64	59	72	64	46
A22	6	5	8	5	6	7
A23	165	158	149	148	153	141
A24	8	19	12	15	13	11
A41	251	241	262	237	261	189
A42	84	70	56	62	67	44
A43	230	221	181	208	196	150
A44	91	106	77	107	91	70
A45	567	505	419	518	446	354
A46	45	24	24	39	24	25
A47	1,688	1,547	1,331	1,508	1,399	1,315
A61	1,274	1,261	1,132	1,229	1,177	1,065
A62	127	124	122	126	121	104
A63	587	572	489	555	506	453
A99	0	2	2	0	0	0
B01	261	261	215	254	233	202
B02	20	19	7	14	16	13
B03	8	4	7	4	2	11
B04	7	5	1	5	3	7
B05	113	102	82	112	82	75
B06	0	0	8	0	6	2
B07	18	18	15	17	18	13
B08	54	50	63	45	59	50
B09	11	19	21	11	22	21
B21	95	95	69	100	75	66
B22	27	19	19	30	18	17
B23	404	387	340	409	373	313
B24	110	120	90	111	104	77
B25	422	341	348	339	337	285
B26	97	100	67	89	86	58
B27	43	40	39	37	37	35

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
B28	15	10	10	13	12	13
B29	165	159	140	152	153	131
B30	17	10	7	14	7	14
B31	18	5	6	9	6	5
B32	156	142	125	137	123	126
B33	3	5	7	6	2	7
B41	76	70	60	71	70	48
B42	54	63	44	54	50	37
B43	83	76	56	75	68	45
B44	21	38	33	30	39	34
B60	644	537	542	582	517	452
B61	10	12	5	10	6	8
B62	643	562	430	588	475	381
B63	49	52	44	52	46	41
B64	15	22	20	14	24	25
B65	922	913	862	865	886	804
B66	81	90	77	104	75	69
B67	34	29	30	34	22	25
B68	0	0	1	0	0	1
B81	4	9	7	8	4	16
B82	1	3	1	3	2	0
C01	17	24	25	20	24	17
C02	105	105	89	101	101	73
C03	36	21	13	30	18	7
C04	6	4	3	3	2	13
C05	6	10	10	6	7	15
C06	0	0	0	0	0	0
C07	1	1	0	1	0	1
C08	10	8	13	9	11	8
C09	13	19	15	8	15	15
C10	6	6	7	10	3	8
C11	14	19	13	16	13	17
C12	33	31	23	30	24	33

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
C13	0	0	0	0	0	0
C14	0	2	2	1	1	2
C21	7	21	18	17	20	12
C22	3	3	5	2	4	4
C23	30	16	15	20	18	13
C25	82	54	36	61	42	45
C30	7	10	4	10	4	3
C40	0	0	0	0	0	0
D01	14	9	14	10	13	16
D02	10	16	17	12	24	12
D03	24	42	30	26	38	25
D04	50	46	33	47	38	36
D05	45	41	44	34	46	37
D06	91	75	72	64	76	59
D07	3	7	4	3	5	5
D21	7	9	7	5	12	6
D99	0	0	0	0	0	0
E01	47	44	53	35	56	47
E02	50	50	49	53	52	43
E03	109	98	75	101	83	66
E04	364	376	330	353	350	322
E05	182	221	181	180	197	171
E06	249	213	162	214	193	134
E21	6	13	4	13	8	6
F01	38	49	35	39	44	38
F02	81	49	60	61	51	48
F03	109	99	97	106	98	72
F04	220	203	203	218	225	183
F15	16	15	18	18	19	14
F16	739	684	599	674	653	600
F17	18	21	26	21	24	20
F21	340	283	256	317	248	222
F22	4	4	3	6	1	2

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
F23	67	62	69	54	80	72
F24	358	398	325	358	384	305
F25	64	53	45	60	40	49
F26	28	19	23	22	20	23
F27	18	11	9	12	12	10
F28	62	47	43	42	49	48
F41	88	58	72	73	80	45
F42	11	8	8	11	7	5
G01	469	423	481	397	466	432
G02	411	355	373	355	379	328
G03	115	130	109	115	129	85
G04	29	25	25	17	29	29
G05	60	57	82	53	68	70
G06	1,193	1,499	1,605	1,333	1,644	1,502
G07	43	61	83	54	85	59
G08	193	182	163	179	168	157
G09	177	168	163	171	161	149
G10	65	71	67	70	71	65
G11	71	39	48	43	46	48
G12	1	3	0	2	1	1
G16	0	0	25	0	5	63
G21	2	0	0	2	0	0
G99	0	0	1	0	0	0
H01	1,395	1,373	1,216	1,411	1,316	1,118
H02	387	400	444	394	426	406
H03	20	23	26	20	30	25
H04	396	387	329	403	343	314
H05	513	451	434	475	468	394
H99	0	0	0	0	0	0
X	169	191	160	0	0	0

Note: Considering the time difference between application collection and classification, patent application figures may not be available by the publication deadline of the annual report. Therefore, figures from the past three years are used as the basis of the said statistics.

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

Classification	Application			Grant		
	2016	2017	2018	2017	2018	2019
01	45	40	46	36	25	30
02	371	358	327	339	343	268
03	245	265	210	192	217	182
04	61	74	56	50	60	50
05	55	52	65	30	44	59
06	456	426	353	290	350	292
07	413	380	428	376	311	338
08	393	341	376	334	360	285
09	604	483	519	468	494	413
10	207	221	208	191	189	228
11	283	266	194	224	224	188
12	1,074	813	831	1,016	840	646
13	467	507	507	447	477	400
14	914	1,006	1,128	772	870	914
15	434	494	405	319	441	327
16	262	255	239	231	221	204
17	13	9	14	7	13	15
18	10	37	25	18	30	22
19	104	94	90	64	100	65
20	40	27	23	24	26	37
21	304	257	263	258	259	254
22	79	41	61	54	55	51
23	421	419	381	370	419	352
24	180	176	179	162	149	177
25	123	139	184	113	136	117
26	454	434	482	449	450	393
27	2	11	17	0	6	21
28	271	301	268	214	279	226
29	9	20	20	11	22	12
30	29	55	50	25	50	44
31	56	39	38	46	27	50
32	3	0	0	0	0	0
X	62	80	95	0	0	0

Note: Considering the time difference between application collection and classification, patent application figures may not be available by the publication deadline of the annual report. Therefore, figures from the past three years are used as the basis of the said statistics.

4. Invention Applications by International Patent Classification (IPC) in 2018 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	5,465
2	G06F	Electric digital data processing	3,006
3	A61K	Preparations for medical, dental, or toilet purposes	1,444
4	G06Q	Electronic commerce	1,261
5	H04W	Wireless communication networks	1,107
6	G02B	Optical elements, systems, or apparatus	948
7	H04L	Transmission of digital information	862
8	C07D	Heterocyclic compounds	848
9	H04N	Pictorial communication	756
10	C08L	Compositions of Macromolecular Compounds	706
11	G01N	Investigating or analysing materials by determining their chemical or physical properties	704
12	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor; exposure apparatus	703
13	B32B	Layered products	689
14	G02F	Liquid crystal display (LCD), electrophoresis display (EPD)	619
15	C23C	Coating metallic material; coating material with metallic material	614
16	C09K	Materials for applications not otherwise provided for; applications of materials not otherwise provided for	591
17	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	588
18	G11C	Static stores	583
19	C08G	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	553
20	G01R	Measuring electric variables; measuring magnetic variables	540

Note: 1. The order of placement is based on the number of applications, from most to least.

2. For detailed IPC subject, please refer to International Patent Classification version 2019.01.

3. Considering the time difference between application collection and classification, patent application figures may not be available by the publication deadline of the annual report. Therefore, figures from the previous year are used as the basis of the said statistics.

5. Utility Model Applications by International Patent Classification (IPC) in 2018 (TOP 20)

Rank	IPC	IPC Subject	Total
1	G06Q	Electronic commerce	897
2	G06F	Electric digital data processing	570
3	B65D	Containers for storage or transport of articles or materials	544
4	A47G	Household or table equipment	437
5	H01R	Electrically-conductive connections	434
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	401
7	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	351
8	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	304
9	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	281
10	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	260
11	A01G	Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops, or seaweed; forestry; watering	222
12	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	214
13	A61H	Physical therapy apparatus	205
14	B25B	Tools or bench devices	190
15	A61B	Diagnosis; surgery; identification	185
16	B01D	Separation	184
17	G01N	Investigating or analysing materials by determining their chemical or physical properties	170
18	A47C	Chairs; sofas; beds	166
19	G02B	Optical elements, systems, or apparatus	165
20	A45D	Hairdressing or shaving equipment; manicuring or other cosmetic treatment	164

Note: 1. The order of placement is based on the number of applications, from most to least.

2. For detailed IPC subject, please refer to International Patent Classification version 2019.01.

3. Considering time difference between application collection and classification, patent application figures may not be available by the publication deadline of the annual report. Therefore, figures from the previous year are used as the basis of the said statistics.

6. Design Applications by International Classification for Industrial Design System (LOC) in 2018 (TOP 20)

Rank	LOC	LOC Subject	Total
1	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	480
2	26-06	Luminous devices for vehicles	332
3	14-03	Communications equipment, wireless remote controls and radio amplifiers	313
4	14-02	Data processing equipment as well as peripheral apparatus and devices	309
5	14-04	Screen displays and icons	285
6	13-03	Equipment for distribution or control of electric power	284
7	02-04	Footwear, socks and stockings	243
8	28-03	Toilet articles and beauty parlor equipment	237
9	07-02	Cooking appliances, utensils and containers	206
9	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	206
11	03-01	Trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	194
12	09-03	Boxes, cases, containers, (preserve) tins or cans	172
13	15-99	Miscellaneous	170
14	06-04	Storage furniture	158
15	21-01	Games and toys	157
16	07-01	China, glassware, dishes and other articles of a similar nature	139
16	16-06	Optical articles	139
18	23-01	Fluid distribution equipment	132
19	13-02	Power transformers, rectifiers, batteries and accumulators	131
20	12-11	Cycles and motorcycles	119

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

2. Considering the time difference between application collection and classification, patent application figures may not be available by the publication deadline of the annual report. Therefore, figures from the previous year are used as the basis of the said statistics.

3. For detailed LOC subject, please refer to International Classification for Industrial Designs 11th edition.

7. Invention Grants by International Patent Classification (IPC) in 2019 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	4,415
2	G06F	Electric digital data processing	2,045
3	G02B	Optical elements, systems, or apparatus	805
4	G06Q	Electronic commerce	715
5	A61K	Preparations for medical, dental, or toilet purposes	696
6	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor; exposure apparatus	663
7	C08L	Compositions of Macromolecular Compounds	598
8	H04L	Transmission of digital information	589
9	H04N	Pictorial communication	572
10	B32B	Layered products	567
11	C07D	Heterocyclic compounds	536
12	G01N	Investigation or analysing materials by determining their chemical or physical properties	532
13	G11C	Static stores	529
14	G02F	Liquid crystal display (LCD), electrophoresis display (EPD)	512
15	C23C	Coating metallic material; coating material with metallic material	504
16	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	501
17	H04W	Wireless communication networks	431
18	C09K	Materials for applications not otherwise provided for; applications of materials not otherwise provided for	423
19	H01R	Electrically-conductive connections	370
20	C09J	Adhesives; non-mechanical aspects of adhesive processes in general; adhesive processes not provided for elsewhere; use of materials as adhesives	354

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

2. For detailed IPC subject, please refer to International Patent Classification version 2019.01.

8. Utility Model Grants by International Patent Classification (IPC) in 2019 (TOP 20)

Rank	IPC	IPC Subject	Total
1	G06Q	Electronic commerce	846
2	G06F	Electric digital data processing	522
3	B65D	Containers for storage or transport of articles or materials	495
4	H01R	Electrically-conductive connections	409
5	A47G	Household or table equipment	405
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	349
7	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	342
8	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	278
9	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	273
10	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	253
11	A61H	Physical therapy apparatus	208
12	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	197
13	A01G	Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops, or seaweed; forestry; watering	180
13	A61B	Diagnosis; surgery; identification	180
15	A47C	Chairs; sofas; beds	175
16	B01D	Separation	165
17	B25B	Tools or bench devices	162
18	B23Q	Details, components, or accessories for machine tools	160
19	A61F	Filters implantable into blood vessels; prostheses; devices providing patency to, or preventing collapsing of, tubular structures of the body	154
20	G02B	Optical elements, systems, or apparatus	147

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

2. For detailed IPC subject, please refer to International Patent Classification version 2019.01.

9. Design Grants by International Classification for Industrial Design System (LOC) in 2019 (TOP 20)

Rank	LOC	LOC Subject	Total
1	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	347
2	14-02	Data processing equipment as well as peripheral apparatus and devices	294
3	26-06	Luminous devices for vehicles	264
4	14-03	Communications equipment, wireless remote controls and radio amplifiers	254
5	13-03	Equipment for distribution or control of electric power	219
6	14-04	Screen displays and icons	206
7	28-03	Toilet articles and beauty parlor equipment	203
8	02-04	Footwear, socks and stockings	200
9	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	171
10	03-01	Trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	169
11	07-02	Cooking appliances, utensils and containers	163
12	21-01	Games and toys	144
13	23-01	Fluid distribution equipment	141
14	06-04	Storage furniture	140
15	16-06	Optical articles	134
16	09-03	Boxes, cases, containers, (preserve) tins or cans	130
17	15-99	Miscellaneous	128
18	07-01	China, glassware, dishes and other articles of a similar nature	116
19	12-11	Cycles and motorcycles	113
20	23-04	Ventilation and air-conditioning equipment	107

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

2. For detailed LOC subject, please refer to International Classification for Industrial Designs 11th edition.

10. Patent Applications by Nationality (2019)

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	18,984	16,412	4,208	39,604	53.05%
JAPAN	13,195	74	1,329	14,598	19.55%
UNITED STATES OF AMERICA	6,341	184	912	7,437	9.96%
MAINLAND CHINA	2,723	560	415	3,698	4.95%
REPUBLIC OF KOREA	1,656	16	142	1,814	2.43%
HONG KONG	1,018	118	146	1,282	1.72%
GERMANY	1,004	8	250	1,262	1.69%
SWITZERLAND	433	0	256	689	0.92%
NETHERLANDS	547	11	106	664	0.89%
FRANCE	201	4	357	562	0.75%
SINGAPORE	368	33	85	486	0.65%
UNITED KINGDOM	350	18	28	396	0.53%
SWEDEN	147	1	183	331	0.44%
ITALY	123	2	144	269	0.36%
CAYMAN ISLANDS	154	40	10	204	0.27%
AUSTRIA	136	7	12	155	0.21%
ISRAEL	95	9	16	120	0.16%
BELGIUM	89	1	8	98	0.13%
DENMARK	68	0	23	91	0.12%
CANADA	76	0	9	85	0.11%
AUSTRALIA	52	2	26	80	0.11%
FINLAND	50	0	18	68	0.09%
SAMOA	32	18	2	52	0.07%
NEW ZEALAND	22	1	26	49	0.07%
MALAYSIA	28	9	6	43	0.06%

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
IRELAND	40	0	1	41	0.05%
BRITISH VIRGIN ISLANDS	18	9	7	34	0.05%
INDIA	28	1	4	33	0.04%
LIECHTENSTEIN	27	0	6	33	0.04%
SPAIN	22	1	3	26	0.03%
THAILAND	13	12	1	26	0.03%
ANTIGUA AND BARBUDA	23	0	0	23	0.03%
SEYCHELLES	13	2	1	16	0.02%
HUNGARY	7	2	5	14	0.02%
NORWAY	11	0	2	13	0.02%
MACAO	5	4	4	13	0.02%
BARBADOS	4	3	6	13	0.02%
BERMUDA	11	0	1	12	0.02%
RUSSIAN FEDERATION	10	1	1	12	0.02%
BELIZE	3	3	6	12	0.02%
SLOVENIA	2	0	10	12	0.02%
MEXICO	1	6	5	12	0.02%
LUXEMBOURG	9	0	1	10	0.01%
BRAZIL	9	0	0	9	0.01%
PORTUGAL	9	0	0	9	0.01%
CZECH REPUBLIC	8	0	0	8	0.01%
VIETNAM	4	4	0	8	0.01%
OTHERS	99	4	23	126	0.17%
TOTAL	48,268	17,580	8,804	74,652	100.00%

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

11. Pre-grant Publications by Nationality (2019)

Nationality	Pre-grant Publication	Percentage	Nationality	Pre-grant Publication	Percentage
TAIWAN, REPUBLIC OF CHINA	18,613	38.76%	SAMOA	35	0.07%
JAPAN	13,405	27.92%	SPAIN	33	0.07%
UNITED STATES OF AMERICA	6,397	13.32%	INDIA	31	0.06%
MAINLAND CHINA	2,313	4.82%	SEYCHELLES	30	0.06%
REPUBLIC OF KOREA	1,795	3.74%	LUXEMBOURG	29	0.06%
GERMANY	1,146	2.39%	MALAYSIA	29	0.06%
HONG KONG	915	1.91%	ANTIGUA AND BARBUDA	26	0.05%
NETHERLANDS	526	1.10%	NORWAY	23	0.05%
SWITZERLAND	433	0.90%	BRITISH VIRGIN ISLANDS	21	0.04%
UNITED KINGDOM	342	0.71%	NEW ZEALAND	20	0.04%
SINGAPORE	308	0.64%	LIECHTENSTEIN	19	0.04%
CAYMAN ISLANDS	229	0.48%	NAMIBIA	15	0.03%
FRANCE	196	0.41%	BERMUDA	11	0.02%
AUSTRIA	168	0.35%	MALTA	10	0.02%
SWEDEN	133	0.28%	RUSSIAN FEDERATION	8	0.02%
ITALY	125	0.26%	THAILAND	8	0.02%
ISRAEL	101	0.21%	BARBADOS	6	0.01%
CANADA	67	0.14%	CZECH REPUBLIC	6	0.01%
BELGIUM	63	0.13%	HUNGARY	6	0.01%
AUSTRALIA	62	0.13%	MACAO	6	0.01%
FINLAND	57	0.12%	OTHERS	155	0.32%
IRELAND	51	0.11%	TOTAL	48,020	100.00%
DENMARK	48	0.10%			

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

12. Granted Patents by Nationality (2019)

Nationality	Number of Granted Patents				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	14,481	15,213	3,371	33,065	57.12%
JAPAN	9,588	75	1,103	10,766	18.60%
UNITED STATES OF AMERICA	4,287	164	639	5,090	8.79%
MAINLAND CHINA	1,680	497	243	2,420	4.18%
REPUBLIC OF KOREA	1,483	12	115	1,610	2.78%
GERMANY	764	9	221	994	1.72%
HONG KONG	375	135	80	590	1.02%
SWITZERLAND	356	5	192	553	0.96%
NETHERLANDS	383	10	60	453	0.78%
FRANCE	157	8	216	381	0.66%
SINGAPORE	212	15	49	276	0.48%
UNITED KINGDOM	178	11	31	220	0.38%
CAYMAN ISLANDS	145	52	4	201	0.35%
SWEDEN	114	1	77	192	0.33%
ITALY	86	6	61	153	0.26%
AUSTRIA	127	2	4	133	0.23%
BELGIUM	66	2	16	84	0.15%
FINLAND	36	0	40	76	0.13%
AUSTRALIA	44	3	11	58	0.10%
ISRAEL	36	2	5	43	0.07%
SAMOA	21	20	1	42	0.07%
IRELAND	40	0	0	40	0.07%
NEW ZEALAND	10	1	28	39	0.07%
MALAYSIA	22	8	8	38	0.07%

Nationality	Number of Granted Patents				
	Invention	Utility Model	Design	Total	Percentage
DENMARK	20	0	13	33	0.06%
BRITISH VIRGIN ISLANDS	19	8	6	33	0.06%
LUXEMBOURG	26	0	6	32	0.06%
CANADA	23	1	8	32	0.06%
THAILAND	11	12	0	23	0.04%
SEYCHELLES	17	2	3	22	0.04%
INDIA	18	1	2	21	0.04%
BARBADOS	15	0	5	20	0.03%
SPAIN	15	1	4	20	0.03%
NORWAY	9	2	5	16	0.03%
MACAO	4	8	4	16	0.03%
LIECHTENSTEIN	12	0	3	15	0.03%
BERMUDA	7	0	2	9	0.02%
MEXICO	2	6	1	9	0.02%
SLOVENIA	1	0	8	9	0.02%
BELIZE	1	1	6	8	0.01%
VIETNAM	3	2	2	7	0.01%
HUNGARY	3	1	2	6	0.01%
OTHERS	29	4	5	38	0.07%
TOTAL	34,926	16,300	6,660	57,886	100.00%

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

13. Resident Patent Applications in 2019 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	1,333	0	0	1,333
2	ACER INCORPORATED	407	108	50	565
3	AU OPTRONICS CORPORATION	532	6	15	553
4	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	368	14	3	385
5	MEDIATEK INC.	350	6	0	356
6	REALTEK SEMICONDUCTOR CORPORATION	333	0	0	333
7	HON HAI PRECISION INDUSTRY CO., LTD.	181	17	2	200
8	CHINA STEEL CORPORATION	109	86	0	195
9	COMPAL ELECTRONICS, INC.	103	16	74	193
10	WISTRON CORPORATION	151	37	4	192
11	INVENTEC CORPORATION	186	0	0	186
12	FAR-EAST-UNIVERSITY	49	134	0	183
13	TAIPEI CHENGSHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	5	176	0	181
14	BANK OF TAIWAN	62	109	4	175
15	CHUNGHWA TELECOM CO., LTD.	162	1	1	164
15	DELTA ELECTRONICS, INC.	138	19	7	164
17	ASUSTEK COMPUTER INC.	68	71	5	144
18	WINBOND ELECTRONICS CORP.	143	0	0	143
18	QUANTA COMPUTER INC.	92	15	36	143
20	NANYA TECHNOLOGY CORPORATION	132	0	0	132

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

14. Resident Patent Grants in 2019 (Top 20)

Rank	Applicant	Number of Grants			
		Invention	Utility Model	Design	Total
1	AU OPTRONICS CORPORATION	443	9	36	488
2	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	454	0	0	454
3	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	435	15	0	450
4	ACER INCORPORATED	231	114	43	388
5	MEDIATEK INC.	313	4	0	317
6	HON HAI PRECISION INDUSTRY CO., LTD.	279	22	10	311
7	CHINA STEEL CORPORATION	94	89	0	183
8	FAR-EAST-UNIVERSITY	30	150	0	180
9	CHUNGHWA TELECOM CO., LTD.	155	2	1	158
10	HIGH TECH COMPUTER, CORP.	131	0	21	152
11	WISTRON CORPORATION	118	33	0	151
11	ASUSTEK COMPUTER INC.	59	77	15	151
13	REALTEK SEMICONDUCTOR CORPORATION	148	0	0	148
14	MICROJET TECHNOLOGY CO., LTD	75	64	0	139
14	TAIPEI CHENGSHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	5	134	0	139
16	NATIONAL CHUNG SHAN INSTITUTE OF SCIENCE AND TECHNOLOGY	116	16	4	136
17	WINBOND ELECTRONICS CORP.	134	0	0	134
18	DELTA ELECTRONICS, INC.	92	17	24	133
19	QUANTA COMPUTER INC.	97	14	21	132
20	PEGATRON CORPORATION	109	12	6	127

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

15. Non-Resident Patent Applications in 2019 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	ALIBABA GROUP SERVICES LIMITED	828	3	19	850
2	APPLIED MATERIALS, INC.	632	22	9	663
3	QUALCOMM INCORPORATED	582	0	0	582
4	TOKYO ELECTRON LIMITED	492	1	3	496
5	NITTO DENKO CORPORATION	402	0	1	403
6	CORNING INCORPORATED	340	0	0	340
7	SAMSUNG ELECTRONICS CO., LTD.	295	0	15	310
8	TOSHIBA MEMORY CORPORATION	297	0	2	299
9	LG CHEM, LTD.	273	0	0	273
10	FUJIFILM CORPORATION	263	0	3	266
11	MITSUBISHI ELECTRIC CORPORATION	209	0	53	262
12	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.	198	0	56	254
13	ASML NETHERLANDS B.V.	249	1	0	250
14	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD	233	0	16	249
15	SUMITOMO CHEMICAL CO., LTD.	246	0	0	246
16	DISCO CORPORATION	244	0	0	244
17	SCREEN HOLDINGS CO., LTD.	225	0	0	225
18	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	223	0	0	223
19	SHIN-ETSU CHEMICAL CO., LTD.	218	0	0	218
20	SONY SEMICONDUCTOR SOLUTIONS CORPORATION	186	0	0	186

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

16. Non-Resident Patent Grants in 2019 (Top 20)

Rank	Applicant	Number of Patent Grants			
		Invention	Utility Model	Design	Total
1	APPLIED MATERIALS, INC.	415	18	3	436
2	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	423	0	0	423
3	TOKYO ELECTRON LIMITED	250	0	6	256
4	ALIBABA GROUP SERVICES LIMITED	240	2	4	246
5	SCREEN HOLDINGS CO., LTD.	239	0	2	241
6	SAMSUNG ELECTRONICS CO., LTD.	203	0	17	220
7	MITSUBISHI ELECTRIC CORPORATION	176	0	37	213
8	LG CHEM, LTD.	209	0	0	209
9	CORNING INCORPORATED	192	0	0	192
10	NITTO DENKO CORPORATION	178	0	0	178
11	GLOBALFOUNDRIES US INC.	170	0	0	170
12	FORD GLOBAL TECHNOLOGIES, LLC	0	0	169	169
13	FUJIFILM CORPORATION	164	0	0	164
14	TOSHIBA MEMORY CORPORATION	162	0	1	163
15	SONY CORPORATION	146	0	11	157
16	SHIN-ETSU CHEMICAL CO., LTD.	150	0	0	150
17	ASML NETHERLANDS B.V.	148	0	0	148
18	SHIMANO INC.	129	3	10	142
19	QUALCOMM INCORPORATED	141	0	0	141
20	SEIKO EPSON CORPORATION	138	0	2	140

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

17. Certificates Issued to Industry (by type) in 2019

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)	162	511	81	13	767	1.50%
Foods & Tobacco	A21-A24	114	199	196	6	515	1.01%
Domestic Articles	A41-A47	416	2,045	320	102	2,883	5.63%
Pharmaceutical & Entertainment	A61-A63,(exclude A61K&A61P,A61Q)	746	1,463	490	83	2,782	5.43%
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	264	57	445	3	769	1.50%
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	246	72	341	3	662	1.29%
Separation & Mixing	B01-B09	277	377	426	17	1,097	2.14%
Working of Metal	B21-B32, (exclude B31)	824	1,094	1,296	41	3,255	6.35%
Printing	B41-B44	74	159	168	5	406	0.79%
Transporting	B60-B68	653	1,692	741	114	3,200	6.25%
Micro-structural technology; nano-technology	B81-B82	46	15	53	1	115	0.22%
Inorganic Chemistry, Treatment of Waste Water	C01-C05,C30	214	115	685	13	1,027	2.00%
Organic Chemistry	C07, (exclude C07K,C07M)	93	1	909	0	1,003	1.96%
Organic Macromolecular Compound	C08	195	7	1,136	1	1,339	2.61%
Dyes, Petroleum, Animal or Vegetable Oils	C09-C11	126	40	1,071	0	1,237	2.41%
Sugar Industries & Pelts/Leather	C13-C14	0	2	6	0	8	0.02%
Metallurgy, Coating Metallic Material & Alloys	C21-C23,C25 (exclude C22K)	195	60	828	14	1,097	2.14%
Textiles & Flexible Materials	D01-D07	90	180	178	10	458	0.89%
Paper Making & Making Paper Articles	D21,B31	4	8	28	3	43	0.08%

Type of Industry	Corresponding International Patent Classification	Residents		Non-Residents		Total	
		Invention	Utility Model	Invention	Utility Model	No. of Certificates Issued	Percentage
Fixed Constructions	E01-E06	326	755	163	28	1,272	2.48%
Mining or Quarrying	E21	4	6	3	0	13	0.03%
Engines and Pumps	F01-F04	212	316	170	25	723	1.41%
Hydraulics or Pneumatics in General	F15-F17	287	610	325	24	1,246	2.43%
Lighting; Heating	F21-F28	299	697	275	34	1,305	2.55%
Weapons; Explosive Charges	F41-F42,C06	18	49	13	1	81	0.16%
Optics	G01-G03 ,(exclude G01N33)	1,531	739	2,108	83	4,461	8.71%
Measuring	G04-G08,(exclude G06F, G06Q)	551	394	310	26	1,281	2.50%
Semi-Conductor Applications	G09-G12	549	245	538	18	1,350	2.64%
Nuclear Engineering	G21	3	0	14	0	17	0.03%
Electric Power; Generation, Distribution or Conversion of Electric Power, Electric Heating	H02,H05	884	711	714	89	2,398	4.68%
Basic Electronic Elements	H01,(exclude H01L)	762	604	1,019	165	2,550	4.98%
Semiconductor Devices	H01L	1,421	290	2,994	59	4,764	9.30%
Basic Electronic Circuitry;Electric Communication Technique	H03,H04	1,205	311	1,268	28	2,812	5.49%
Electric Digital Data Processing	G06F(exclude 17/60)	1,111	468	934	54	2,567	5.01%
E-business	G06F17/60,G06Q	540	829	175	17	1,561	3.05%
Others		39	92	24	7	162	0.32%
Total		14,481	15,213	20,445	1,087	51,226	100.00%

18. Statistics on Valid Patent

Invention & Utility Model

Classification	Invention	Utility Model
A01	2,066	2,788
A21	142	298
A22	18	35
A23	1,331	699
A24	330	43
A41	264	1,106
A42	78	276
A43	500	984
A44	849	466
A45	408	1,993
A46	65	121
A47	2,350	7,033
A61	12,685	6,071
A62	258	568
A63	1,855	2,610
B01	3,485	1,365
B02	119	126
B03	80	47
B04	44	28
B05	1,459	599
B06	20	13
B07	90	90
B08	501	277
B09	135	82
B21	1,051	530
B22	630	109
B23	3,502	2,232
B24	1,669	590
B25	2,750	2,101
B26	406	458
B27	141	206
B28	169	69
B29	2,750	969

Classification	Invention	Utility Model
B30	110	102
B31	56	58
B32	3,359	720
B33	13	18
B41	1,674	478
B42	79	266
B43	161	287
B44	150	179
B60	2,407	2,986
B61	201	40
B62	3,148	2,755
B63	246	193
B64	120	85
B65	4,409	4,483
B66	422	443
B67	111	126
B68	6	6
B81	366	29
B82	349	5
C01	2,142	77
C02	872	468
C03	2,173	154
C04	920	31
C05	90	48
C06	6	3
C07	8,499	4
C08	11,455	44
C09	8,226	82
C10	539	24
C11	498	65
C12	2,111	179
C13	8	1
C14	16	4

Classification	Invention	Utility Model
C21	517	52
C22	2,119	19
C23	4,714	136
C25	1,396	272
C30	837	68
C40	16	0
D01	599	90
D02	94	77
D03	210	150
D04	478	302
D05	476	254
D06	785	370
D07	15	28
D21	227	44
D99	1	1
E01	163	203
E02	272	251
E03	281	432
E04	956	1,837
E05	935	1,131
E06	597	1,148
E21	69	46
F01	356	198
F02	573	329
F03	400	403
F04	1,578	1,090
F15	178	76
F16	4,868	3,991
F17	190	103
F21	1,662	1,617
F22	45	26
F23	503	389
F24	1,394	1,829

Classification	Invention	Utility Model
F25	612	297
F26	124	139
F27	233	75
F28	681	284
F41	214	392
F42	28	33
G01	13,071	2,417
G02	15,979	2,215
G03	9,294	574
G04	188	113
G05	2,579	313
G06	30,368	7,348
G07	414	268
G08	1,117	757
G09	6,920	770
G10	1,202	310
G11	7,185	356
G12	39	12
G16	29	66
G21	284	4
G99	1	0
H01	67,798	9,642
H02	8,107	2,250
H03	5,525	135
H04	22,910	2,071
H05	9,917	3,195
H99	1	0
Total	329,466	100,423

Note: The figures above are calculated based on existing patents as of December 31, 2019.

Design

Classification	Design
01	192
02	1,681
03	1,082
04	320
05	318
06	1,874
07	1,947
08	2,299
09	3,017
10	1,488
11	1,276
12	5,665
13	3,176
14	5,323
15	2,721
16	1,508
17	62
18	135
19	594
20	224

Classification	Design
21	1,485
22	304
23	2,558
24	1,163
25	905
26	2,588
27	103
28	1,402
29	102
30	186
31	300
99	12
Total	46,010

Note: The figures above are calculated based on existing patents as of December 31, 2019.

19. Statistics on Pending Patent Applications for Examination (2010~2019)

Item 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		
2010	153,969	9,015	6,198	4,171	112	-	1	-	497	1,257	58	2,882	178,160
2011	160,858	8,444	6,224	4,312	74	-	-	-	399	1,116	82	2,322	183,831
2012	153,039	8,376	6,382	5,167	39	-	-	-	365	1,027	68	2,140	176,603
2013	129,318	6,599	6,681	7,345	40	-	-	-	292	844	49	1,740	152,908
2014	100,580	5,696	6,276	8,592	143	-	-	-	274	599	67	1,773	124,000
2015	72,892	4,641	4,854	8,711	179	-	-	-	257	511	87	1,584	93,716
2016	50,293	3,953	4,848	8,390	72	-	-	-	235	408	49	1,125	69,373
2017	44,002	4,859	5,056	6,256	55	-	-	-	202	271	23	620	61,344
2018	46,443	3,287	4,748	4,436	45	-	-	-	162	266	24	492	59,903
2019	48,316	3,728	5,556	4,857	140	-	-	-	152	225	50	384	63,408

- Note: 1. According to the Patent Act, which took effect on July 1, 2004, utility model patent applications shall be subjected to formality examination and technical evaluation reports thereof shall be submitted afterwards.
2. The above statistics exclude the number of applications not requesting substantial examination. (2009: 8,501; 2010: 10,705; 2011: 12,671; 2012:10,932; 2013:9,959; 2014:10,734; 2015:9,684; 2016: 10,142; 2017: 9,707; 2018: 7,716; 2019: 9,261).
3. Some data on new applications were collected via E-filing, which was launched in April 2008. Given varying operation procedures, there is a slight difference in the 2008 data on pending cases.

D. Trend of Invention Requests for Examination

Number and Percentage of Requests for Examination

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
2010	47,327	27,829	58.80%	1,669	3.53%	11,947	25.24%	417	0.88%	41,862	88.45%
2011	49,919	29,092	58.28%	1,545	3.10%	12,473	24.99%	604	1.21%	43,714	87.57%
2012	51,189	30,520	59.62%	1,102	2.15%	12,137	23.71%	887	1.73%	44,646	87.22%
2013	49,217	28,464	57.83%	1,167	2.37%	12,223	24.83%	1,167	2.37%	43,015	87.40%
2014	46,379	26,513	57.17%	1,167	2.52%	12,021	25.92%	1,278	2.76%	40,966	88.33%
2015	44,415	24,799	55.83%	1,372	3.09%	12,153	27.36%	1,440	3.24%	39,754	89.51%
2016	43,835	23,321	53.20%	1,462	3.34%	12,788	29.17%	1,718	3.92%	39,288	89.63%
2017	46,122	24,967	54.13%	1,517	3.29%	2,767	6.00%	1,584	3.43%	30,835	66.86%
2018	47,429	27,177	57.30%	750	1.58%	214	0.45%	1,196	2.52%	29,337	61.85%
2019	48,268	27,102	56.15%	335	0.69%	159	0.33%	1,038	2.15%	28,634	59.32%

- 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 Paragraphs 1 and 2 of Article 38 of the Patent Act.
2. Except for divisional applications and conversion applications conforming to Article 34 or 108 of the Patent Act, invention applications failing to request an 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 total number of requests for examination each year within three years from the filing dates, applications divided or converted within 30 days from the filing date according to Articles 34 and 108 of the Patent Act, and to the total number of new applications for invention.
4. The total number of invention applications in each year, in addition to the new applications filed in the year, includes the number of applications divided or converted in the year but originally filed before the year.

E. Statistics on IC Layout Applications and Certificates Issued

Year	Application	Certificate Issued
2010	50	48
2011	144	120
2012	159	124
2013	146	83
2014	87	195
2015	113	120
2016	114	133
2017	58	68
2018	95	96
2019	118	86

II. Trademark Cases Filed & Disposed

A. General Statistics on Trademark Cases (2010-2019)

Year	Item	Application	Registration		Rejection	
		Cases	Cases	Percentage	Cases	Percentage
2010		66,496	54,292	81.65%	8,356	12.57%
2011		67,620	48,315	71.45%	6,480	9.58%
2012		74,357	61,918	83.27%	8,724	11.73%
2013		74,031	60,557	81.80%	8,581	11.59%
2014		75,933	66,257	87.26%	7,641	10.06%
2015		78,523	62,993	80.22%	7,692	9.80%
2016		79,300	68,177	85.97%	8,956	11.29%
2017		83,802	74,226	88.57%	8,903	10.62%
2018		84,816	71,809	84.66%	8,464	9.98%
2019		86,794	70,785	81.56%	8,187	9.43%

Note: 1. The figures for "Application" are calculated based on the total number of registration applications collected each year.
 2. The figures for "Registration" and "Rejection" are calculated based on the total number of cases published each year.

B. Statistics on Trademark (2010-2019)

1. Statistics on Applications

Year \ Item	Application		Opposition	Invalidation	Revocation
	By case	By class			
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
2013	74,031	94,958	955	225	513
2014	75,933	97,776	868	213	627
2015	78,523	101,327	780	210	669
2016	79,300	101,331	822	187	515
2017	83,802	108,758	913	248	640
2018	84,816	110,074	872	199	543
2019	86,794	111,681	664	192	642

Year \ Item	Renewal	License	Assignment	Alteration
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
2013	42,536	1,046	9,299	8,358
2014	39,624	859	7,327	8,744
2015	41,471	930	8,998	12,323
2016	43,030	763	9,469	8,552
2017	42,474	696	9,147	9,153
2018	44,444	928	8,907	9,486
2019	45,524	1,202	10,596	9,291

Note: 1. The figures above are 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 or more types of goods or services. Therefore, the number of applications and the number of classes are not the same.

2. Trademark Opposition

Item Year	Sustained		Denied		Partially Sustained		Others	
	Cases	Percentage	Cases	Percentage	Cases	Percentage	Cases	Percentage
2010	514	55.15%	195	20.92%	33	3.54%	190	20.39%
2011	436	53.17%	124	15.12%	80	9.76%	180	21.95%
2012	324	43.14%	177	23.57%	42	5.59%	208	27.70%
2013	421	39.31%	377	35.20%	68	6.35%	205	19.14%
2014	427	47.03%	265	29.19%	49	5.40%	167	18.39%
2015	470	51.76%	177	19.49%	110	12.11%	151	16.63%
2016	426	48.08%	232	26.19%	80	9.03%	148	16.70%
2017	386	48.49%	183	22.99%	64	8.04%	163	20.48%
2018	461	49.25%	272	29.06%	74	7.91%	129	13.78%
2019	439	48.94%	224	24.97%	89	9.92%	145	16.16%

Note: 1. The chart shows the number of cases disposed each year.
 2. The item "Others" includes rejection because of formal deficiency, withdrawal, and other types of rejection.
 3. "Sustained" means all goods and services are sustained; "Denied" refers to all the goods and services are denied; "Partially Sustained" means parts of the goods and services are sustained.
 4. Percentage is derived from using the number of total disposals as the denominator, "Sustained", "Denied", "Partially Sustained" and "Others" as the numerators.

3. Trademark Invalidation

Item Year	Sustained		Denied		Partially Sustained		Others	
	Cases	Percentage	Cases	Percentage	Cases	Percentage	Cases	Percentage
2010	220	56.85%	76	19.64%	10	2.58%	81	20.93%
2011	194	53.01%	50	13.66%	37	10.11%	85	23.22%
2012	130	39.51%	70	21.28%	15	4.56%	114	34.65%
2013	116	34.63%	130	38.81%	38	11.34%	51	15.22%
2014	108	38.03%	75	26.41%	33	11.62%	68	23.94%
2015	122	47.66%	60	23.44%	29	11.33%	45	17.58%
2016	116	53.46%	41	18.89%	16	7.37%	44	20.28%
2017	106	48.62%	32	14.68%	31	14.22%	49	22.48%
2018	139	57.92%	34	14.17%	24	10.00%	43	17.92%
2019	110	52.13%	43	20.38%	22	10.43%	36	17.06%

Note: 1. The chart shows the number of cases disposed each year.
 2. The item "Others" includes rejection because of formal deficiency, withdrawal, and other types of rejection.
 3. "Sustained" means all goods and services are sustained; "Denied" refers to all the goods and services are denied; "Partially Sustained" means parts of the goods and services are sustained.
 4. Percentage is derived from using the number of total disposals as the denominator, "Sustained", "Denied", "Partially Sustained" and "Others" as the numerators.

4. Trademark Revocation (Cancellation)

Item Year	Sustained		Denied		Partially Sustained		Others	
	Cases	Percentage	Cases	Percentage	Cases	Percentage	Cases	Percentage
2010	484	85.36%	27	4.76%	27	4.76%	29	5.11%
2011	310	68.13%	33	7.25%	39	8.57%	73	16.04%
2012	343	68.60%	41	8.20%	46	9.20%	70	14.00%
2013	331	63.78%	52	10.02%	77	14.84%	59	11.37%
2014	405	71.43%	47	8.29%	74	13.05%	41	7.23%
2015	487	71.72%	35	5.15%	86	12.67%	71	10.46%
2016	379	61.23%	47	7.59%	129	20.84%	64	10.34%
2017	345	60.74%	28	4.93%	136	23.94%	59	10.39%
2018	372	62.84%	34	5.74%	142	23.99%	44	7.43%
2019	371	62.35%	32	5.38%	89	14.96%	103	17.31%

- Note: 1. The chart shows the number of cases disposed each year.
 2. The item "Others" includes rejection because of formal deficiency, withdrawal, and other types of rejection.
 3. Beginning from November 28, 2003, "disciplinary cancellation" has been changed to "revocation."
 4. "Sustained" means all goods and services are sustained; "Denied" means all the goods and services are denied; "Partially Sustained" means parts of the goods and services are sustained.
 5. Percentage is derived from using the number of total disposals as the denominator, "Sustained", "Denied", "Partially Sustained" and "Others" as the numerators.

5. Trademark Administrative Appeals, 2010-2019

Item Year	Administrative Appeals					
	Cases Filed	Decisions on Administrative Appeals				
		Original Decisions Revoked	Administrative Appeals Rejected	Others	Other Concluded Cases	Rate of Revocation
2010	906	68	930	0	27	6.63%
2011	674	34	648	0	31	4.77%
2012	835	37	771	1	11	4.63%
2013	811	59	653	14	10	9.92%
2014	787	84	652	15	10	13.01%
2015	722	29	709	4	5	4.42%
2016	688	15	680	4	11	2.68%
2017	684	26	689	7	11	4.50%
2018	683	11	624	3	4	2.18%
2019	636	16	636	8	3	3.62%

- 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
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
2013	157	6	21	118	11	6	3	0	165
2014	162	9	19	120	9	3	1	0	161
2015	159	17	20	96	8	4	3	0	148
2016	158	9	14	119	3	6	2	0	153
2017	176	12	16	105	3	5	7	0	148
2018	117	17	19	117	5	6	1	0	165
2019	152	10	29	96	5	5	3	0	148

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" means cases concluded by the IP Court after the litigants' mutual concession to the disputes and the reaching of an agreement.

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

Year \ Item	Residents	Non-Residents
2010	50,998	15,498
2011	50,895	16,725
2012	55,696	18,661
2013	55,338	18,693
2014	56,217	19,716
2015	57,356	21,167
2016	57,548	21,752
2017	61,215	22,587
2018	59,840	24,976
2019	61,928	24,866

Note: TIPO began accepting applications for joint ownership of trademark on July 13, 2006. The numbers in this table are counted by the number of applicants' nationalities.

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

Year \ Item	Residents	Non-Residents
2010	41,410	12,882
2011	36,687	11,628
2012	45,659	16,259
2013	44,174	16,383
2014	48,728	17,529
2015	45,233	17,760
2016	48,828	19,349
2017	53,202	21,024
2018	50,463	21,346
2019	48,921	21,864

C. Statistics on Trademarks by Class and Nationality

1. Trademark Applications and Registrations by Class (2017-2019)

Class	Application			Registration		
	2017	2018	2019	2017	2018	2019
Total	108,656	109,979	111,588	96,655	93,974	93,419
1	1,457	1,342	1,343	1,251	1,340	1,135
2	338	325	355	356	348	298
3	6,818	7,079	6,754	6,337	5,483	5,761
4	520	470	472	446	476	404
5	6,754	6,781	7,167	5,765	5,519	5,535
6	967	949	873	983	873	899
7	2,083	2,140	2,217	1,888	2,110	1,969
8	746	662	717	724	689	657
9	8,325	8,583	8,635	7,057	7,934	7,327
10	1,821	1,845	1,994	1,840	1,545	1,612
11	2,046	1,922	1,895	1,876	2,018	1,679
12	1,699	1,613	1,452	1,515	1,581	1,395
13	73	79	75	57	77	84
14	1,383	1,393	1,355	1,278	1,273	1,262

Class	Application			Registration		
	2017	2018	2019	2017	2018	2019
15	164	156	155	185	140	177
16	2,935	2,860	2,795	2,686	2,729	2,531
17	537	553	506	586	548	534
18	2,218	2,166	2,210	2,244	1,901	1,871
19	529	506	444	463	457	440
20	1,602	1,652	1,534	1,566	1,411	1,432
21	2,284	2,182	2,236	2,028	2,107	2,016
22	230	225	182	215	213	187
23	90	100	94	84	87	93
24	986	1,096	1,035	1,065	912	941
25	4,602	4,358	4,631	4,388	3,657	3,685
26	383	334	348	378	313	342
27	250	267	211	309	227	245
28	2,287	2,196	2,163	2,015	1,939	1,975
29	4,025	4,075	4,185	3,544	3,328	3,170
30	7,407	7,216	7,462	6,343	5,934	5,528
31	1,586	1,537	1,501	1,374	1,266	1,230
32	2,167	2,197	2,238	1,932	1,708	1,733
33	1,000	1,031	1,068	855	893	797
34	324	320	415	313	305	294
35	12,938	13,597	13,939	11,158	11,301	11,809
36	1,632	1,887	1,767	1,424	1,435	1,625
37	1,445	1,520	1,613	1,304	1,333	1,377
38	1,340	1,346	1,314	1,185	1,124	1,221
39	1,133	1,085	1,115	977	966	1,021
40	694	668	639	641	652	636
41	5,400	5,440	5,834	4,537	4,623	4,731
42	3,427	3,956	3,952	2,907	3,180	3,436
43	7,076	7,226	7,349	5,897	5,599	5,679
44	1,945	2,041	2,265	1,718	1,607	1,783
45	990	1,003	1,084	961	813	863

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

2. Trademark Applications by Nationality in 2019 (By Case)

Nationality	Application	Percentage	Nationality	Application	Percentage
TAIWAN, REPUBLIC OF CHINA	61,928	71.35%	RUSSIAN FEDERATION	51	0.06%
MAINLAND CHINA	6,108	7.04%	ISRAEL	47	0.05%
JAPAN	4,748	5.47%	POLAND	47	0.05%
UNITED STATES OF AMERICA	3,621	4.17%	INDONESIA	44	0.05%
REPUBLIC OF KOREA	1,668	1.92%	VIETNAM	44	0.05%
HONG KONG	1,617	1.86%	FINLAND	43	0.05%
GERMANY	802	0.92%	LUXEMBOURG	41	0.05%
UNITED KINGDOM	654	0.75%	LIECHTENSTEIN	38	0.04%
FRANCE	618	0.71%	INDIA	37	0.04%
SWITZERLAND	607	0.70%	MEXICO	31	0.04%
ITALY	469	0.54%	NORWAY	30	0.03%
SINGAPORE	457	0.53%	BELIZE	28	0.03%
CAYMAN ISLANDS	302	0.35%	BULGARIA	26	0.03%
BRITISH VIRGIN ISLANDS	288	0.33%	PHILIPPINES	23	0.03%
AUSTRALIA	254	0.29%	TURKEY	23	0.03%
CANADA	227	0.26%	BRAZIL	22	0.03%
MALAYSIA	181	0.21%	PORTUGAL	19	0.02%
THAILAND	181	0.21%	CZECH REPUBLIC	18	0.02%
SPAIN	173	0.20%	SOUTH AFRICA	15	0.02%
NETHERLANDS	173	0.20%	CHILE	11	0.01%
SWEDEN	121	0.14%	CYPRUS	11	0.01%
NEW ZEALAND	101	0.12%	BAHAMAS	10	0.01%
SAMOA	91	0.10%	ARGENTINA	9	0.01%
GREECE	90	0.10%	ESTONIA	9	0.01%
MACAO	89	0.10%	MONACO	9	0.01%
DENMARK	85	0.10%	SAUDI ARABIA	9	0.01%
IRELAND	66	0.08%	AMERICAN SAMOA	8	0.01%
BELGIUM	62	0.07%	SEYCHELLES	8	0.01%
ANGUILLA	61	0.07%	COSTA RICA	6	0.01%
UNITED ARAB EMIRATES	58	0.07%	LEBANON	6	0.01%
AUSTRIA	53	0.06%	OTHERS	118	0.14%

	Subtotal	Ratio
Residents	61,928	71.35%
Non-Residents	24,866	28.65%
Total	86,794	100.00%

Note: 1. Receipt of applications for joint ownership of trademark began on July 13, 2006. The table shows the nationality of applicants by the number of applications filed.

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

3. Trademark Registrations by Nationality in 2019 (By Case)

Nationality	Registration	Percentage	Nationality	Registration	Percentage
TAIWAN, REPUBLIC OF CHINA	48,921	69.11%	LUXEMBOURG	40	0.06%
MAINLAND CHINA	5,445	7.69%	MEXICO	34	0.05%
JAPAN	4,066	5.74%	NORWAY	34	0.05%
UNITED STATES OF AMERICA	3,418	4.83%	POLAND	32	0.05%
HONG KONG	1,357	1.92%	VIETNAM	29	0.04%
REPUBLIC OF KOREA	1,277	1.80%	ISREAL	28	0.04%
GERMANY	779	1.10%	INDIA	27	0.04%
FRANCE	675	0.95%	SEYCHELLES	27	0.04%
UNITED KINGDOM	587	0.83%	MACAO	24	0.03%
SWITZERLAND	505	0.71%	BELIZE	20	0.03%
SINGAPORE	434	0.61%	RUSSIAN FEDERATION	20	0.03%
ITALY	388	0.55%	CZECH REPUBLIC	19	0.03%
CAYMAN ISLANDS	321	0.45%	TURKEY	19	0.03%
CANADA	242	0.34%	BERMUDA	16	0.02%
BRITISH VIRGIN ISLANDS	221	0.31%	MALTA	15	0.02%
AUSTRALIA	197	0.28%	PHILIPPINES	12	0.02%
MALAYSIA	196	0.28%	SAUDI ARABIA	11	0.02%
SPAIN	147	0.21%	BRAZIL	10	0.01%
THAILAND	147	0.21%	MONACO	9	0.01%
NETHERLANDS	141	0.20%	BULGARIA	8	0.01%
NEW ZEALAND	104	0.15%	PORTUGAL	8	0.01%
SWEDEN	93	0.13%	ESTONIA	7	0.01%
SAMOA	83	0.12%	GREECE	7	0.01%
IRELAND	73	0.10%	ISLE OF MAN	7	0.01%
DENMARK	72	0.10%	LEBANON	7	0.01%
FINLAND	59	0.08%	SOUTH AFRICA	7	0.01%
BELGIUM	58	0.08%	ANGUILLA	6	0.01%
INDONESIA	57	0.08%	ARGENTINA	6	0.01%
AUSTRIA	46	0.06%	COSTA RICA	6	0.01%
LIECHTENSTEIN	45	0.06%	EL SALVADO	6	0.01%
UNITED ARAB EMIRATES	42	0.06%	OTHERS	88	0.12%

	Subtotal	Ratio
Residents	48,921	69.11%
Non-Residents	21,864	30.89%
Total	70,785	100.00%

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

D. Statistics on Certification Mark and Collective Membership Mark

Year	Item	Certification Mark		Collective Membership Mark	
		Application	Registration	Application	Registration
2010		33	39	83	55
2011		64	21	70	56
2012		37	42	71	39
2013		41	30	64	54
2014		31	37	72	48
2015		43	31	58	56
2016		27	26	47	52
2017		41	30	61	36
2018		46	29	49	39
2019		40	44	53	37

III. Top 20 e-Filing and e-Delivery Patent and Trademark Attorneys and Agents in 2019

1. Top 20 e-Filing Attorney Offices in 2019

Patent			Trademark		
Ranking	Attorney Offices	Rate of e-filing	Ranking	Attorney Offices	Rate of e-filing
1	Lee and Li, Attorneys-at-Law	18.38%	1	Lee and Li, Attorneys-at-Law	10.47%
2	Jianq Chyun Intellectual Property Office	11.40%	2	Saint Island International Patent & Law Offices	9.56%
3	Taiwan International Patent & Law Office	7.84%	3	Tai E International Patent & Law Office	5.18%
4	Saint Island International Patent & Law Offices	5.61%	4	Taiwan International Patent & Law Office	3.58%
5	Top Team International Patent & Trademark Office	5.54%	5	Baker & McKenzie	2.77%
6	Tai E International Patent & Law Office	5.10%	6	Gold Keen Intellectual Property Office	2.24%
7	TSAI, LEE & CHEN Patent Attorneys & Attorneys at Law	3.54%	7	Oger International Patent & Trademark Office	1.96%
8	Li & Cai Intellectual Property Office	1.98%	8	Asia Lih Intellectual Property Office	1.78%
9	North America Union Patent & Trademark Office	1.57%	9	Jaw-Hwa International Patent & Trademark & Law Offices	1.40%
10	JOU & JOU Patent Offices	1.47%	10	World Patent & Trademark Law Office	1.30%
11	Wideband IP Office	1.35%	11	Long River International Patent, Trademark & Law Office	1.23%
12	Taiwan Advance Patent & Trademark Office	1.14%	12	Show Brand Intellectual Property Office	1.18%
13	Hua Ding International Patent & Trademark & Law Joint Office	1.06%	13	Nan E International Intellectual Property Office	1.17%
14	SUNDIAL Intellectual Property Law Firm	1.05%	14	Union Patent Service Center	1.05%
15	AIPT Patent, Trademark & Law Office	0.97%	15	Giant Group International Patent, Trademark & Law Office	1.00%
16	Long River International Patent, Trademark & Law Office	0.84%	16	AIPT International Trademark Office	0.99%
17	World Patent & Trademark Law Office	0.81%	16	Granting Falcon International Patent & Trademark Office	0.99%
18	AIPT International Patent Office	0.75%	18	Yong Hsin International Patent and Trademark Office	0.98%
19	Five Continents Patent and Trademark Office	0.72%	18	Five Continents Patent and Trademark Office	0.98%
20	Formosa Transnational Attorneys at Law	0.66%	20	Taiwan Patent and Trademark Office	0.93%

2. Top 20 e-Delivery Attorney Offices in 2019

Patent			Trademark		
Ranking	Attorney Offices	Rate of e-Delivery	Ranking	Attorney Offices	Rate of e-Delivery
1	Lee and Li, Attorneys-at-Law	13.04%	1	Saint Island International Patent & Law Offices	10.93%
2	Taiwan International Patent & Law Office	9.65%	2	Tai E International Patent & Law Office	9.96%
3	Jianq Chyun Intellectual Property Office	7.54%	3	Lee and Li, Attorneys-at-Law	8.20%
4	Saint Island International Patent & Law Offices	6.17%	4	Taiwan International Patent & Law Office	4.27%
5	WENPING & CO. International Patent & Trademark Office	5.56%	5	Baker & McKenzie	2.24%
6	TSAI, LEE & CHEN Patent Attorneys & Attorneys at Law	5.14%	6	TSAI, LEE & CHEN Patent Attorneys & Attorneys at Law	2.05%
7	Tai E International Patent & Law Office	4.97%	7	Winkler Partners	2.04%
8	Li & Cai Intellectual Property Office	3.22%	8	Asia Lih Intellectual Property Office	1.70%
9	Top Team International Patent & Trademark Office	3.19%	8	WENPING & CO. International Patent & Trademark Office	1.70%
10	Louis International Patent Office	2.41%	10	Union Patent Service Center	1.60%
11	North America Union Patent & Trademark Office	1.47%	11	Jaw-Hwa International Patent & Trademark & Law Offices	1.42%
12	Long River International Patent, Trademark & Law Office	1.42%	12	Long River International Patent, Trademark & Law Office	1.36%
13	Union Patent Service Center	1.12%	13	Nan E International Intellectual Property Office	1.17%
13	JOU & JOU Patent Offices	1.12%	14	AIPT Patent, Trademark & Law Office	1.13%
15	AIPT Patent, Trademark & Law Office	1.02%	15	Giant Group International Patent, Trademark & Law Office	1.08%
16	Tsar & Tsai Law Firm	0.92%	16	Taiwan Patent and Trademark Office	1.01%
17	AIPT Patent, Trademark & Law Office	0.89%	17	Tsar & Tsai Law Firm	1.00%
18	SUNDIAL Intellectual Property Law Firm	0.85%	18	Wanlin International Trademark Office	0.91%
19	Wideband IP Office	0.79%	19	Mission International Patent & Trademark Office	0.90%
20	Giant Group International Patent, Trademark & Law Office	0.66%	20	Kingcraft International Patent & Trademark Office	0.86%