

## 2. Annual Statistics

### I. Patent Applications Filed & Disposed

#### A. General Statistics on Patent Cases (2012-2021)

Year \ Item	Application	Certificate Issued	Grant
2012	85,074	56,611	56,608
2013	83,211	72,147	72,142
2014	78,015	76,258	76,252
2015	73,627	78,089	78,087
2016	72,442	76,406	76,406
2017	73,791	71,878	71,877
2018	73,421	62,193	62,193
2019	74,652	57,887	57,886
2020	72,238	58,719	58,719
2021	72,613	59,478	59,476

Reporting Date: January 11, 2022

Note: "Application" refers to the numbers of applications filed each individual calendar year. "Certificate Issued" refers to the numbers of certificates being issued. "Grant" refers to the counts of approved cases published and issued at the same time.

#### B. Statistics on Patent from 2012 to 2021

##### 1. Patent Cases Filed & Disposed

Year \ Item	Application	Reexamination	Invalidation	Assignment	Licensing
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
2020	72,238	6,500	467	6,221	140
2021	72,613	6,655	438	5,665	79

Reporting Date: January 11, 2022

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

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

## 2. Invention Patent Applications Filed & Disposed

Item Year	Application	Pre-grant Publication	Request for Examination	Reexamination	Rejection	Grant	Invalidation
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
2020	46,664	46,834	43,035	6,283	11,206	33,811	152
2021	49,116	47,951	43,576	6,496	10,628	36,576	161

Reporting Date: January 11, 2022

Note: 1. "Rejection" refers to the counts of rejections rendered after the examination and reexamination process. "Grant" refers to the counts of approved cases published and issued at the same time.

2. "Pre-Grant Publication" refers to the early publication for new applications.

3. "Requests for Substantive Examination" refers to the counts of substantive examination are requested each individual calendar year.

## 3. Utility Model Patent Applications Filed & Disposed

Item Year	Application	Rejection	Grant	Requests for Technical Evaluation Report	Issuance of Technical Evaluation Report	Invalidation
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
2020	17,555	105	17,489	1,075	850	274
2021	15,796	147	15,742	817	970	224

Reporting Date: January 11, 2022

Note: 1. "Rejection" refers to the counts of rejections rendered after the examination and reexamination process. "Grant" refers to the counts of approved cases published and issued at the same time.

2. "Requests for Technical Evaluation Report" refers to the counts of technical evaluation reports requested each individual calendar year. "Issuance of Technical Evaluation Report" refers to the counts of the technical evaluation reports issued after receiving the requests.

#### 4. Design Patent Applications Filed & Disposed

Year \ Item	Application	Reexamination	Rejection	Grant	Invalidation
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
2020	8,019	217	1,043	7,419	41
2021	7,701	159	853	7,158	53

Reporting Date: January 11, 2022

Note: "Rejection" refers to the counts of rejections rendered after the examination and reexamination process. "Grant" refers to the counts of approved cases published and issued at the same time.

#### 5. Patent Opposition and Invalidation

Year \ Item	Opposition		Invalidation										
	Sustained	Denied	Sustained				Partially Sustained			Denied			
			Invention	Utility Model	Design	Subtotal	Invention	Utility Model	Subtotal	Invention	Utility Model	Design	Subtotal
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
2020	0	0	43	132	29	204	16	54	70	37	68	21	126
2021	0	0	68	113	21	202	24	46	70	45	60	22	127

Reporting Date: January 11, 2022

Note: 1. The numbers above refer to the counts of completed cases for patent oppositions, invalidation sustained, invalidation denied or invalidation partially sustained; all patents that are withdrawn, dismissed or rejected are excluded from the counts in the data of the table.

2. The provisions with respect to "oppositions" have been repealed starting from 1 July 2004, whereas there are still a few opposition cases pending for examination in the light of long-standing litigations.

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

Item Year	Administrative Appeals					
	Cases Filed	Decisions of Administrative Appeals				
		Original Decisions Revoked	Others	Administrative Appeals Rejected	Other Disposals	Rate of Revocation
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%
2020	201	5	0	205	0	2.4%
2021	238	6	0	219	1	2.7%

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

2. Rejection refers to not accepting and rejecting 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 and Commercial Court

Item Year	Cases Received	Cases Concluded							
		Withdrawn	Plaintiff Won	Plaintiff Lost	Partially Sustained	Dismissals	Settlements	Others	Total
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
2020	67	4	14	51	7	0	0	0	76
2021	70	1	5	52	5	0	0	0	63

Note: 1. The above statistics are provided by the Intellectual Property and Commercial 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
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
2020	19,012	16,445	3,947	39,404	27,652	1,110	4,072	32,834
2021	19,547	14,543	3,534	37,624	29,569	1,253	4,167	34,989

Reporting Date: January 11, 2022

## 9. Resident and Non-Resident Patent Grants

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
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
2020	13,986	16,345	3,351	33,682	19,825	1,144	4,068	25,037
2021	15,395	14,555	3,311	33,261	21,181	1,187	3,847	26,215

Reporting Date: January 11, 2022

Note: "Grants" refer to the counts of approved cases published and issued at the same time.

## C. Statistics on Patent by Class

## 1. Statistics on Invention Patent Applications and Grants by Classification Covering the Last 3 Years

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
A01	415	393	383	307	309	259
A21	40	29	26	24	20	24
A22	10	2	5	4	8	6
A23	276	323	321	211	218	229
A24	107	183	217	71	46	73
A41	69	86	92	45	69	60
A42	25	26	16	16	12	30
A43	110	73	80	98	75	88
A44	58	57	49	60	37	40
A45	100	100	97	69	56	62
A46	27	30	31	13	12	22
A47	643	551	520	435	460	480
A61	2,744	2,767	2,862	1,635	1,497	1,911
A62	70	49	126	60	37	64
A63	301	318	255	242	244	242
A99	1	0	0	0	0	0
B01	466	517	534	385	281	354
B02	8	20	27	11	16	11
B03	12	27	22	10	17	17
B04	5	6	3	3	10	0
B05	171	146	166	166	139	96
B06	5	13	5	2	7	6
B07	14	22	19	11	9	17
B08	101	92	106	97	80	72
B09	17	26	32	18	13	15
B21	103	99	100	127	64	95
B22	93	96	72	76	53	47
B23	497	529	537	418	301	439
B24	215	206	245	186	144	180
B25	402	483	449	296	346	367
B26	49	58	40	47	49	41

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
B27	32	22	10	25	20	15
B28	24	19	32	27	28	23
B29	470	409	427	346	311	339
B30	6	10	11	5	3	12
B31	6	12	13	4	9	10
B32	689	777	668	567	449	476
B33	19	5	7	4	2	2
B41	155	158	116	202	137	114
B42	12	11	6	8	8	6
B43	21	19	30	18	20	15
B44	16	14	15	14	16	7
B60	534	424	433	320	281	346
B61	35	31	27	20	19	26
B62	492	422	409	385	371	404
B63	39	48	45	27	23	23
B64	31	34	41	19	21	30
B65	670	749	744	554	483	532
B66	51	50	74	50	38	48
B67	18	14	15	19	9	10
B68	1	0	1	0	0	0
B81	58	41	46	62	59	62
B82	32	28	23	37	31	30
C01	291	349	360	232	197	212
C02	142	151	137	94	86	124
C03	383	369	314	349	234	232
C04	150	161	141	110	116	118
C05	20	28	13	21	16	16
C06	2	1	2	2	0	2
C07	1,740	1,868	2,157	1,173	1,173	1,199
C08	2,004	2,070	2,156	1,331	1,123	1,379
C09	1,652	1,592	1,415	1,098	927	989
C10	67	37	66	53	44	28
C11	94	88	92	46	40	68

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
C12	457	516	526	274	271	319
C13	1	2	0	3	1	2
C14	0	3	0	3	0	0
C21	63	51	67	78	53	43
C22	294	306	252	241	234	262
C23	662	783	780	553	541	622
C25	211	184	202	151	171	186
C30	93	117	148	93	70	124
C40	1	1	0	5	2	1
D01	97	82	74	55	65	49
D02	20	18	24	8	13	13
D03	46	26	37	21	16	23
D04	85	95	74	37	45	65
D05	44	53	26	32	38	43
D06	159	174	123	113	108	88
D07	0	1	0	2	0	1
D21	59	50	30	28	30	39
D99	0	0	0	0	0	0
E01	35	27	22	25	12	20
E02	38	40	44	31	18	19
E03	38	65	59	52	38	46
E04	189	213	182	144	148	152
E05	118	127	124	130	84	131
E06	99	73	73	107	66	66
E21	9	10	13	7	7	3
F01	40	40	27	44	30	17
F02	45	40	28	64	30	19
F03	129	129	96	67	70	53
F04	275	270	184	207	221	186
F15	25	38	24	23	33	25
F16	684	667	606	574	517	572
F17	18	28	36	15	14	14
F21	167	164	138	122	124	139

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
F22	8	12	10	5	6	5
F23	59	57	67	42	43	37
F24	231	215	197	208	170	143
F25	88	72	58	70	51	57
F26	31	24	25	19	16	15
F27	33	25	34	28	22	10
F28	113	166	147	80	104	90
F41	36	36	47	28	29	27
F42	2	0	5	1	1	2
G01	2,007	2,052	1,972	1,504	1,379	1,510
G02	1,627	1,538	1,601	1,373	1,320	1,313
G03	999	1,053	969	849	932	868
G04	21	10	23	26	32	23
G05	317	308	288	290	248	234
G06	5,071	5,149	4,817	3,125	3,490	3,705
G07	62	85	61	45	40	53
G08	213	201	195	161	95	128
G09	556	566	586	404	535	529
G10	190	153	195	125	107	166
G11	610	660	651	554	658	724
G12	3	3	2	4	3	2
G16	127	185	195	27	83	85
G21	23	15	46	17	21	25
G99	0	0	0	0	0	0
H01	7,451	7,844	7,403	6,196	6,269	6,743
H02	1,027	944	914	868	860	730
H03	533	481	413	503	434	372
H04	3,270	3,164	2,626	1,970	2,062	2,511
H05	868	966	1,097	730	808	883
H99	0	0	0	0	0	0
X	542	553	519	0	0	0

Reporting Date: January 11, 2022

Note: The counts of patent applications of the year are excluded from the annual report owing to the statistical time lag of the classification process; thus, numbers from the last three years are counted as the basis of the statistics.

## 2. Statistics on Utility Model Patent Applications and Grants by Classification Covering the Last 3 Years

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
A01	598	497	528	527	504	459
A21	59	49	54	46	57	39
A22	8	6	4	7	4	2
A23	149	169	140	141	154	130
A24	12	21	23	11	31	15
A41	262	192	252	189	221	238
A42	56	48	57	44	47	61
A43	181	160	120	150	147	119
A44	77	73	68	70	60	71
A45	419	393	337	354	387	254
A46	24	38	27	25	31	22
A47	1,331	1,403	1,187	1,315	1,280	987
A61	1,132	1,176	1,239	1,065	1,267	1,052
A62	122	102	324	104	244	220
A63	489	497	437	453	453	378
A99	2	0	1	0	1	0
B01	215	204	227	202	235	186
B02	7	22	18	13	20	22
B03	7	7	11	11	8	7
B04	1	9	4	7	4	3
B05	82	90	93	75	110	78
B06	8	1	1	2	1	2
B07	15	14	18	13	16	17
B08	63	45	49	50	47	41
B09	21	19	27	21	17	25
B21	69	74	66	66	78	58
B22	19	21	12	17	20	18
B23	340	327	378	313	361	302
B24	90	80	79	77	89	65
B25	348	276	276	285	291	240
B26	67	70	63	58	71	53
B27	39	36	18	35	25	14

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
B28	10	19	9	13	15	13
B29	140	129	121	131	114	112
B30	7	16	9	14	10	11
B31	6	14	18	5	21	8
B32	125	132	118	126	119	101
B33	7	2	3	7	3	0
B41	60	53	44	48	48	37
B42	44	37	37	37	32	31
B43	56	48	42	45	42	33
B44	33	45	43	34	45	26
B60	542	442	410	452	418	419
B61	5	7	13	8	8	14
B62	430	435	455	381	476	414
B63	44	44	34	41	38	41
B64	20	33	24	25	23	26
B65	862	849	876	804	842	752
B66	77	76	92	69	92	79
B67	30	23	17	25	20	23
B68	1	0	4	1	2	3
B81	7	11	0	16	1	1
B82	1	1	0	0	1	0
C01	25	22	17	17	22	18
C02	89	77	76	73	73	81
C03	13	15	19	7	16	16
C04	3	13	10	13	5	4
C05	10	13	7	15	11	6
C06	0	0	0	0	0	0
C07	0	3	1	1	2	1
C08	13	11	11	8	12	10
C09	15	18	20	15	23	10
C10	7	8	4	8	8	6
C11	13	14	10	17	9	8
C12	23	34	32	33	36	29

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
C13	0	0	0	0	0	0
C14	2	0	0	2	0	0
C21	18	12	15	12	11	17
C22	5	5	10	4	9	7
C23	15	19	38	13	21	49
C25	36	46	48	45	46	32
C30	4	2	2	3	2	4
C40	0	0	0	0	0	0
D01	14	19	18	16	17	20
D02	17	11	15	12	9	14
D03	30	31	33	25	33	24
D04	33	52	50	36	55	40
D05	44	34	20	37	24	17
D06	72	49	66	59	64	51
D07	4	2	3	5	3	0
D21	7	9	9	6	11	5
D99	0	0	0	0	0	0
E01	53	51	44	47	43	41
E02	49	44	38	43	43	31
E03	75	74	69	66	78	63
E04	330	371	353	322	375	314
E05	181	163	151	171	138	151
E06	162	153	192	134	174	171
E21	4	10	9	6	10	9
F01	35	42	37	38	27	42
F02	60	40	41	48	43	29
F03	97	81	57	72	79	43
F04	203	188	159	183	164	135
F15	18	11	10	14	11	13
F16	599	633	669	600	618	625
F17	26	17	15	20	11	15
F21	256	257	173	222	227	143
F22	3	5	0	2	5	4

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
F23	69	62	68	72	59	60
F24	325	315	279	305	273	254
F25	45	54	40	49	46	30
F26	23	23	22	23	21	21
F27	9	16	22	10	23	17
F28	43	66	66	48	70	83
F41	72	57	67	45	55	67
F42	8	6	2	5	7	5
G01	481	436	433	432	452	430
G02	373	332	318	328	317	281
G03	109	91	90	85	91	78
G04	25	28	18	29	19	16
G05	82	57	59	70	58	63
G06	1,605	1,611	1,870	1,502	1,780	1,823
G07	83	63	64	59	67	66
G08	163	164	171	157	163	153
G09	163	163	195	149	192	173
G10	67	71	69	65	67	66
G11	48	38	42	48	36	35
G12	0	1	2	1	2	1
G16	25	80	91	63	81	91
G21	0	1	3	0	2	5
G99	1	0	0	0	1	1
H01	1,216	1,267	1,159	1,118	1,226	1,237
H02	444	395	369	406	364	324
H03	26	25	28	25	30	20
H04	329	332	305	314	315	288
H05	434	422	475	394	453	434
H99	0	0	0	0	0	0
X	160	210	170	0	0	0

Reporting Date: January 11, 2022

Note: The counts of patent applications of the year are excluded from the annual report owing to the statistical time lag of the classification process; thus, numbers from the last three years are counted as the basis of the statistics.

## 3. Statistics on Design Patent Applications and Grants by Classification Covering the Last 3 Years

Classification	Application			Grant		
	2018	2019	2020	2019	2020	2021
01	46	68	57	30	26	36
02	327	324	242	268	254	194
03	210	213	184	182	155	158
04	56	59	74	50	68	39
05	65	48	59	59	30	47
06	353	412	307	292	302	228
07	428	395	331	338	312	237
08	376	426	356	285	376	338
09	519	509	484	413	462	403
10	208	307	168	228	258	156
11	194	318	272	188	278	251
12	831	897	1,010	646	831	1,034
13	507	771	578	400	639	601
14	1,128	1,018	973	914	900	965
15	405	422	377	327	349	347
16	239	246	199	204	241	150
17	14	15	7	15	6	7
18	25	23	29	22	30	14
19	90	85	92	65	83	77
20	23	49	35	37	31	17
21	263	328	231	254	211	247
22	61	37	55	51	31	64
23	381	485	483	352	412	383
24	179	203	249	177	185	215
25	184	146	150	117	131	135
26	482	438	487	393	428	424
27	17	38	41	21	11	24
28	268	310	282	226	273	249
29	20	25	46	12	33	38
30	50	56	42	44	32	35
31	38	62	51	50	41	45
32	0	0	0	0	0	0
X	95	71	68	0	0	0

Reporting Date: January 11, 2022

Note: The counts of patent applications of the year are excluded from the annual report owing to the statistical time lag of the classification process; thus, numbers from the last three years are counted as the basis of the statistics.

#### 4. Counts of Invention Patent Applications Ranked by International Patent Classification (IPC) in 2020 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	5,317
2	G06F	Electric digital data processing	2,652
3	A61K	Preparations for medical, dental, or toilet purposes	1,462
4	G06Q	Electronic commerce	1,231
5	G02B	Optical elements, systems, or apparatus	1,040
6	C07D	Heterocyclic compounds	1,039
7	H04W	Wireless communication networks	828
8	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	821
9	H04N	Pictorial communication	820
10	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor	767
11	C08G	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	760
12	C23C	Coating metallic material; coating material with metallic material	731
13	G01N	Investigating or analyzing materials by determining their chemical or physical properties	726
14	B32B	Layered products	668
15	C07K	Peptides	630
16	G11C	Static stores	580
17	C08L	Compositions of macromolecular compounds	531
18	H04L	Transmission of digital information	530
19	A61B	Diagnosis; surgery; identification	524
20	G01R	Measuring electric variables; measuring magnetic variables	509

Reporting Date: January 11, 2022

Note: 1. The table displays in descending order, which is based on counts of patent applications.

2. For detailed classification descriptions, please refer to International Patent Classification version 2021.01.

3. The counts of patent applications of the year are excluded from the annual report owing to the statistical time lag of classification process; thus, numbers from the last year are counted as the basis of the statistics.

5. Counts of Utility Model Patent Applications Ranked by International Patent Classification (IPC) in 2020 (TOP 20)

Rank	IPC	IPC Subject	Total
1	G06Q	Electronic commerce	1,020
2	G06F	Electric digital data processing	646
3	B65D	Containers for storage or transport of articles or materials	536
4	H01R	Electrically-conductive connections	465
5	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	405
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	376
7	A47G	Household or table equipment	323
8	A62B	Devices, apparatus or methods for life-saving	301
9	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	274
10	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	249
11	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	242
12	A61B	Diagnosis; surgery; identification	229
13	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	193
14	E06B	Fixed or movable closures for openings in buildings, vehicles, fences, or like enclosures	186
15	A61H	Physical therapy apparatus	184
16	A61L	Methods or apparatus for sterilizing materials or objects in general; disinfection, sterilization, or deodorization of air	179
16	B23Q	Details, components, or accessories for machine tools	179
18	B01D	Separation	177
19	A41D	Outerwear; protective garments; accessories	166
19	A61F	Filters implantable into blood vessels; prostheses; devices providing patency to, or preventing collapsing of, tubular structures of the body	166

Reporting Date: January 11, 2022

Note: 1. The table displays in descending order, which is based on counts of patent applications.

2. For detailed classification descriptions, please refer to International Patent Classification version 2021.01.

3. The counts of patent applications of the year are excluded from the annual report owing to the statistical time lag of the classification process; thus, numbers from the last year are counted as the basis of the statistics.

# 6. Counts of Design Patent Applications Ranked by International Classification for Industrial Designs (LOC) in 2020 (TOP 20)

Rank	LOC	LOC Subject	Total
1	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	652
2	26-06	Luminous devices for vehicles	344
3	13-03	Equipment for distribution or control of electric power	322
4	14-02	Data processing equipment as well as peripheral apparatus and devices	300
5	28-03	Toilet articles and beauty parlor equipment	254
6	14-03	Communications equipment, wireless remote controls and radio amplifiers	237
7	14-04	Screen displays and icons	223
8	09-03	Boxes, cases, containers, (preserve) tins or cans	195
9	11-01	Jewellery	182
10	03-01	Trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	170
11	23-04	Ventilation and air-conditioning equipment	166
12	14-01	Equipment for the recording or reproduction of sounds or pictures	164
13	23-01	Fluid distribution equipment	160
14	02-04	Footwear, socks and stockings	156
15	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	155
15	21-01	Games and toys	155
17	13-02	Power transformers, rectifiers, batteries and accumulators	152
18	07-02	Cooking appliances, utensils and containers	147
19	12-11	Cycles and motorcycles	136
20	06-04	Storage furniture	130

Reporting Date: January 11, 2022

Note: 1. The table displays in descending order, which is based on counts of patent applications.

2. The counts of patent applications of the year are excluded from the annual report owing to the statistical time lag of the classification process; thus, numbers from the last year are counted as the basis of the statistics.

3. For detailed LOC classification descriptions, please refer to International Classification for Industrial Designs 13th edition.

7. Counts of Invention Patent Grants Ranked by International Patent Classification (IPC) in 2021 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	5,013
2	G06F	Electric digital data processing	2,348
3	A61K	Preparations for medical, dental, or toilet purposes	981
4	H04W	Wireless communication networks	796
5	G02B	Optical elements, systems, or apparatus	783
6	H04L	Transmission of digital information	689
7	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	671
8	G06Q	Electronic commerce	656
9	G11C	Static stores	643
10	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor; exposure apparatus	624
11	H04N	Pictorial communication	596
12	C23C	Coating metallic material; coating material with metallic material	573
13	C07D	Heterocyclic compounds	548
14	G02F	Optical devices or arrangements for the control of light by modification of the optical properties of the media of the elements involved therein	485
15	B32B	Layered products	476
16	G01R	Measuring electric variables; measuring magnetic variables	463
17	H01R	Electrically-conductive connections	441
18	G01N	Investigating or analyzing materials by determining their chemical or physical properties	436
19	C08L	Compositions of macromolecular compounds	428
20	C08G	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	421

Reporting Date: January 11, 2022

Note: 1. The table displays in descending order, which is based on counts of patent grants.

2. For detailed classification descriptions, please refer to International Patent Classification version 2021.01.

# 8. Counts of Utility Model Patent Grants Ranked by International Patent Classification (IPC) in 2021 (TOP 20)

Rank	IPC	IPC Subject	Total
1	G06Q	Electronic commerce	1,014
2	G06F	Electric digital data processing	644
3	H01R	Electrically-conductive connections	523
4	B65D	Containers for storage or transport of articles or materials	450
5	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	388
6	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	386
7	A47G	Household or table equipment	272
8	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	224
9	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	215
10	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	214
11	A62B	Devices, apparatus or methods for life-saving	200
12	A61B	Diagnosis; surgery; identification	196
13	A61L	Methods or apparatus for sterilizing materials or objects in general; disinfection, sterilisation, or deodorisation of air	165
13	E06B	Fixed or movable closures for openings in buildings, vehicles, fences, or like enclosures	165
15	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	160
15	B65G	Transport or storage devices, shop conveyor systems or pneumatic tube conveyors	160
17	A41D	Outerwear; protective garments; accessories	157
18	A61H	Physical therapy apparatus	155
19	B25B	Tools or bench devices not otherwise provided for, for fastening, connecting, disengaging, or holding	152
20	B23Q	Details, components, or accessories for machine tools	150

Reporting Date: January 11, 2022

Note: 1. The table displays in descending order, which is based on counts of patent grants.

2. Please refer to International Patent Classification version 2021.01 for detailed classification descriptions.

9. Counts of Design Patent Grants Ranked by International Classification for Industrial Designs (LOC) in 2021 (TOP 20)

Rank	LOC	LOC Subject	Total
1	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	674
2	13-03	Equipment for distribution or control of electric power	362
3	26-06	Luminous devices for vehicles	332
4	14-02	Data processing equipment as well as peripheral apparatus and devices	329
5	14-03	Communications equipment, wireless remote controls and radio amplifiers	234
6	28-03	Toilet articles and beauty parlor equipment	233
7	14-04	Screen displays and icons	222
8	11-01	Jewellery	189
9	21-01	Games and toys	163
10	09-03	Boxes, cases, containers, (preserve) tins or cans	153
10	23-04	Ventilation and air-conditioning equipment	153
12	03-01	Trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	142
13	14-01	Equipment for the recording or reproduction of sounds or pictures	135
14	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	132
15	23-01	Fluid distribution equipment	127
16	08-05	Other tools and implements	123
17	13-02	Power transformers, rectifiers, batteries and accumulators	122
18	02-04	Footwear, socks and stockings	118
19	07-02	Cooking appliances, utensils and containers	117
20	12-11	Cycles and motorcycles	115

Reporting Date: January 11, 2022

Note: 1. The table displays in descending order, which is based on counts of patent grants.

2. For detailed LOC classification descriptions, please refer to International Classification for Industrial Designs 13th edition.

## 10. Statistics on Patent Applications by Nationality (2021)

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	19,547	14,543	3,534	37,624	51.81%
JAPAN	12,221	61	1,042	13,324	18.35%
UNITED STATES OF AMERICA	7,011	133	842	7,986	11.00%
MAINLAND CHINA	3,022	782	449	4,253	5.86%
REPUBLIC OF KOREA	2,223	8	157	2,388	3.29%
GERMANY	1,047	8	233	1,288	1.77%
SWITZERLAND	616	7	484	1,107	1.52%
NETHERLANDS	596	0	154	750	1.03%
FRANCE	265	4	316	585	0.81%
SINGAPORE	490	44	41	575	0.79%
HONG KONG	239	103	136	478	0.66%
UNITED KINGDOM	346	5	20	371	0.51%
SWEDEN	172	0	65	237	0.33%
ITALY	111	2	59	172	0.24%
ISRAEL	148	1	3	152	0.21%
CAYMAN ISLANDS	92	36	3	131	0.18%
CANADA	117	6	5	128	0.18%
AUSTRIA	110	4	10	124	0.17%
BELGIUM	109	0	0	109	0.15%
DENMARK	78	0	13	91	0.13%
IRELAND	74	0	3	77	0.11%
FINLAND	65	0	7	72	0.10%
NEW ZEALAND	20	0	48	68	0.09%
INDIA	63	0	1	64	0.09%
AUSTRALIA	50	6	7	63	0.09%
BRITISH VIRGIN ISLANDS	21	12	9	42	0.06%
SAMOA	24	7	2	33	0.05%

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
SPAIN	26	1	5	32	0.04%
MALAYSIA	24	4	2	30	0.04%
LUXEMBOURG	23	0	1	24	0.03%
CZECH REPUBLIC	9	0	6	15	0.02%
THAILAND	11	2	1	14	0.02%
ANTIGUA AND BARBUDA	13	0	0	13	0.02%
VIETNAM	7	3	3	13	0.02%
RUSSIAN FEDERATION	4	1	7	12	0.02%
NORWAY	7	0	4	11	0.02%
SLOVENIA	2	0	9	11	0.02%
SEYCHELLES	9	1	0	10	0.01%
LIECHTENSTEIN	8	0	0	8	0.01%
BRAZIL	5	0	2	7	0.01%
MEXICO	4	0	3	7	0.01%
PORTUGAL	6	0	0	6	0.01%
OTHERS	81	12	15	108	0.12%
TOTAL	49,116	15,796	7,701	72,613	100.00%

Reporting Date: January 11, 2022

Note: Counts which are fewer than 5 applications are listed as "OTHERS".

## 11. Statistics on Pre-Grant Publications by Nationality (2021)

Nationality	Pre-Grant Publication	Percentage	Nationality	Pre-Grant Publication	Percentage
TAIWAN, REPUBLIC OF CHINA	18,819	39.25%	IRELAND	64	0.13%
JAPAN	12,621	26.32%	AUSTRALIA	50	0.10%
UNITED STATES OF AMERICA	6,708	13.99%	INDIA	39	0.08%
MAINLAND CHINA	2,865	5.97%	SPAIN	32	0.07%
REPUBLIC OF KOREA	1,801	3.76%	MALAYSIA	26	0.05%
GERMANY	987	2.06%	NEW ZEALAND	22	0.05%
NETHERLANDS	653	1.36%	ANTIGUA AND BARBUDA	18	0.04%
SWITZERLAND	549	1.14%	SAMOA	18	0.04%
SINGAPORE	440	0.92%	THAILAND	17	0.04%
HONG KONG	342	0.71%	LIECHTENSTEIN	16	0.03%
UNITED KINGDOM	321	0.67%	BRITISH VIRGIN ISLANDS	15	0.03%
FRANCE	268	0.56%	LUXEMBOURG	14	0.03%
SWEDEN	166	0.35%	NORWAY	14	0.03%
CAYMAN ISLANDS	144	0.30%	SEYCHELLES	12	0.03%
CANADA	118	0.25%	BRAZIL	9	0.02%
ISRAEL	117	0.24%	CZECH REPUBLIC	6	0.01%
ITALY	106	0.22%	MEXICO	6	0.01%
AUSTRIA	105	0.22%	RUSSIAN FEDERATION	6	0.01%
BELGIUM	80	0.17%	OTHERS	215	0.44%
DENMARK	77	0.16%	TOTAL	47,951	100.00%
FINLAND	65	0.14%			

Reporting Date: January 11, 2022

Note: Counts which are fewer than 5 pre-grant publications are listed as "OTHERS".

## 12. Statistics on Patent Grants by Nationality (2021)

Nationality	Number of Granted Patents				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	15,395	14,555	3,311	33,261	55.92%
JAPAN	9,082	61	999	10,142	17.05%
UNITED STATES OF AMERICA	4,617	108	963	5,688	9.56%
MAINLAND CHINA	2,137	713	372	3,222	5.42%
REPUBLIC OF KOREA	1,536	13	117	1,666	2.80%
GERMANY	685	11	209	905	1.52%
NETHERLANDS	457	3	159	619	1.04%
CAYMAN ISLANDS	506	42	9	557	0.94%
HONG KONG	334	107	105	546	0.92%
SWITZERLAND	276	7	263	546	0.92%
SINGAPORE	389	34	63	486	0.82%
FRANCE	156	7	289	452	0.76%
UNITED KINGDOM	219	2	18	239	0.40%
SWEDEN	141	0	46	187	0.31%
ITALY	113	1	63	177	0.30%
AUSTRIA	78	6	10	94	0.16%
BELGIUM	52	1	23	76	0.13%
FINLAND	49	0	16	65	0.11%
ISRAEL	47	5	9	61	0.10%
IRELAND	49	0	6	55	0.09%
NEW ZEALAND	10	0	41	51	0.09%
DENMARK	37	0	8	45	0.08%
CANADA	32	3	10	45	0.08%
SAMOA	19	21	2	42	0.07%
BRITISH VIRGIN ISLANDS	19	11	7	37	0.06%
LUXEMBOURG	25	0	0	25	0.04%

Nationality	Number of Granted Patents				
	Invention	Utility Model	Design	Total	Percentage
MALAYSIA	19	5	1	25	0.04%
AUSTRALIA	10	3	10	23	0.04%
NORWAY	10	0	6	16	0.03%
INDIA	10	0	4	14	0.02%
SPAIN	11	0	0	11	0.02%
SEYCHELLES	3	6	2	11	0.02%
SLOVENIA	0	0	9	9	0.02%
THAILAND	5	2	1	8	0.01%
ANTIGUA AND BARBUDA	7	0	0	7	0.01%
ANGUILLA	2	4	0	6	0.01%
OTHERS	39	11	7	57	0.09%
TOTAL	36,576	15,742	7,158	59,476	100.00%

Reporting Date: January 11, 2022

Note: Counts which are fewer than 5 granted patents are listed as "OTHERS".

## 13. Resident Patent Applicants Ranked by Counts of Patent Applications Filed in 2021 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	1,950	0	0	1,950
2	AU OPTRONICS CORPORATION	460	4	7	471
3	ACER INCORPORATED	312	55	95	462
4	REALTEK SEMICONDUCTOR CORPORATION	440	0	2	442
5	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	392	11	1	404
6	NANYA TECHNOLOGY CORPORATION	290	0	0	290
7	MEDIATEK INC.	249	12	0	261
8	INVENTEC CORPORATION	230	3	0	233
9	CHINA STEEL CORPORATION	125	86	0	211
10	DELTA ELECTRONICS, INC.	163	30	12	205
11	HON HAI PRECISION INDUSTRY CO., LTD.	180	20	2	202
12	COMPAL ELECTRONICS, INC.	146	9	39	194
13	ASUSTEK COMPUTER INC.	76	102	7	185
14	TAIPEI CHENGSHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	7	163	0	170
15	MEGA INTERNATIONAL COMMERCIAL BANK CO., LTD.	25	140	0	165
16	QUANTA COMPUTER INC.	59	83	19	161
17	CTBC BANK CO., LTD.	39	116	0	155
18	TAIWAN COOPERATIVE BANK CO., LTD.	11	133	0	144
19	NATIONAL YANG MING CHIAO TUNG UNIVERSITY	135	6	0	141
20	PEGATRON CORPORATION	123	17	0	140

Reporting Date: January 11, 2022

Note: Applicants with the same counts of applications are regarded as the same ranking, whereas the order is based on the counts of invention patent applications filed.

## 14. Resident Patent Applicants Ranked by Counts of Grants in 2021 (Top 20)

Rank	Applicant	Number of Grants			
		Invention	Utility Model	Design	Total
1	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	1,053	0	0	1,053
2	AU OPTRONICS CORPORATION	443	2	20	465
3	ACER INCORPORATED	250	62	96	408
4	REALTEK SEMICONDUCTOR CORPORATION	386	0	6	392
5	MEDIATEK INC.	346	9	0	355
6	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	336	12	5	353
7	TAIPEI CHENGSHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	1	214	0	215
8	CHINA STEEL CORPORATION	102	93	0	195
9	HON HAI PRECISION INDUSTRY CO., LTD.	170	12	7	189
10	QUANTA COMPUTER INC.	59	106	19	184
11	INVENTEC CORPORATION	170	0	0	170
12	NANYA TECHNOLOGY CORPORATION	168	0	0	168
13	COMPAL ELECTRONICS, INC.	119	15	33	167
14	ASUSTEK COMPUTER INC.	66	90	5	161
15	DELTA ELECTRONICS, INC.	122	30	7	159
16	CHUNGHWA TELECOM CO., LTD.	153	2	0	155
17	FAR EAST UNIVERSITY	53	101	0	154
18	WINBOND ELECTRONICS CORP.	153	0	0	153
19	CTBC BANK CO., LTD.	15	118	4	137
20	WISTRON CORPORATION	106	22	0	128

Reporting Date: January 11, 2022

Note: Applicants with the same counts of grants are regarded as the same ranking, whereas the order is based on the counts of invention patents.

## 15. Non-Resident Patent Applicants Ranked by Counts of Patent Applications Filed in 2021 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	QUALCOMM INCORPORATED	845	0	0	845
2	APPLIED MATERIALS, INC.	758	1	34	793
3	NITTO DENKO CORPORATION	529	0	0	529
4	SAMSUNG ELECTRONICS CO., LTD.	510	0	10	520
5	TOKYO ELECTRON LIMITED	463	0	14	477
6	KIOXIA CORPORATION	457	0	1	458
7	SUMITOMO CHEMICAL CO., LTD.	276	0	0	276
8	ASML NETHERLANDS B.V.	265	0	0	265
9	FUJIFILM CORPORATION	262	0	0	262
10	DISCO CORPORATION	225	0	0	225
11	LAM RESEARCH CORPORATION	206	0	2	208
12	COUPANG CORP.	197	0	8	205
13	SHIN-ETSU CHEMICAL CO., LTD.	195	8	0	203
14	HARRY WINSTON S.A.	0	0	196	196
15	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	176	0	0	176
16	INTEL CORPORATION	175	0	0	175
17	PSA AUTOMOBILES SA	0	0	173	173
18	WONDERLAND SWITZERLAND AG	75	7	82	164
19	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.	130	0	31	161
20	CORNING INCORPORATED	158	0	0	158
20	SHIMANO INC.	142	0	16	158

Reporting Date: January 11, 2022

Note: Applicants with the same counts of applications are regarded as the same ranking, whereas the order is based on the counts of invention patent applications filed.

## 16. Non-Resident Applicants Ranked by Counts of Grants in 2021 (Top 20)

Rank	Applicant	Number of Grants			
		Invention	Utility Model	Design	Total
1	APPLIED MATERIALS, INC.	451	3	38	492
2	QUALCOMM INCORPORATED	424	0	0	424
3	ADVANCED NEW TECHNOLOGIES CO., LTD.	393	0	0	393
4	INTEL CORPORATION	333	0	0	333
5	KIOXIA CORPORATION	276	0	3	279
6	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	269	0	0	269
7	TOKYO ELECTRON LIMITED	243	1	15	259
8	SAMSUNG ELECTRONICS CO., LTD.	239	0	14	253
9	FORD GLOBAL TECHNOLOGIES, LLC	0	0	228	228
10	NITTO DENKO CORPORATION	215	0	0	215
11	APPLE INC.	111	0	98	209
12	SCREEN HOLDINGS CO., LTD.	200	0	0	200
13	DISCO CORPORATION	193	0	0	193
14	SHIMANO INC.	177	0	12	189
15	ASML NETHERLANDS B.V.	184	1	0	185
15	SHIN-ETSU CHEMICAL CO., LTD.	181	4	0	185
17	SHOWA DENKO MATERIALS CO., LTD.	177	0	4	181
18	PSA AUTOMOBILES SA	0	0	179	179
19	LG CHEM, LTD.	163	0	1	164
19	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.	140	0	24	164

Reporting Date: January 11, 2022

Note: Applicants with the same counts of grants are regarded as the same ranking, whereas the order is based on the counts of invention patents.

## 17. Counts of Patent Grants Ranked by Type of Industry in 2021

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)	140	451	59	6	656	1.25%
Foods & Tobacco	A21-A24	131	169	201	17	518	0.99%
Domestic Articles	A41-A47	411	1,658	371	94	2,534	4.84%
Pharmaceutical & Entertainment	A61-A63, (exclude A61K&A61P,A61Q)	784	1,478	450	83	2,795	5.34%
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	291	53	572	0	916	1.75%
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	321	86	513	3	923	1.76%
Separation & Mixing	B01-B09	230	349	358	32	969	1.85%
Working of Metal	B21-B32, (exclude B31)	843	940	1,191	47	3,021	5.77%
Printing	B41-B44	49	124	93	3	269	0.51%
Transporting	B60-B68	684	1,666	735	105	3,190	6.10%
Micro-structural Technology; Nano-technology	B81-B82	48	1	44	0	93	0.18%
Inorganic Chemistry, Treatment of Waste Water	C01-C05,C30	218	117	608	12	955	1.83%
Organic Chemistry	C07, (exclude C07K \ C07M)	79	0	867	0	946	1.81%
Organic Macromolecular Compound	C08	235	10	1,144	0	1,389	2.65%
Dyes, Petroleum, Animal or Vegetable Oils	C09-C11	118	22	967	2	1,109	2.12%
Sugar Industries & Pelts/ Leather	C13-C14	1	0	1	0	2	0.00%
Metallurgy, Coating Metallic Material & Alloys	C21-C23,C25 (exclude C22K )	217	95	896	10	1,218	2.33%
Textiles & Flexible Materials	D01-D07	107	157	175	9	448	0.86%
Paper Making & Making Paper Articles	D21,B31	12	11	37	2	62	0.12%

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	277	752	157	19	1,205	2.30%
Mining or Quarrying	E21	1	9	2	0	12	0.02%
Engines and Pumps	F01-F04	137	230	138	19	524	1.00%
Hydraulics or Pneumatics in General	F15-F17	286	620	325	33	1,264	2.42%
Lighting; Heating	F21-F28	270	573	226	39	1,108	2.12%
Weapons; Explosive Charges	F41-F42,C06	15	71	16	1	103	0.20%
Optics	G01-G03 ,(exclude G01N33 )	1,539	674	2,070	94	4,377	8.37%
Measuring	G04-G08,(exclude G06F,G06Q)	628	424	488	23	1,563	2.99%
Semiconductor Applications	G09-G12	822	260	599	15	1,696	3.24%
Nuclear Engineering	G21	2	4	23	1	30	0.06%
Electric Power; Generation, Distribution or Conversion of Electric Power, Electric Heating	H02,H05	964	668	649	90	2,371	4.53%
Basic Electronic Elements	H01,(exclude H01L)	692	609	1,038	240	2,579	4.93%
Semiconductor Devices	H01L	2,028	327	2,985	61	5,401	10.32%
Basic Electronic Circuitry; Electric Communication Technique	H03,H04	1,169	279	1,714	29	3,191	6.10%
Electric Digital Data Processing	G06F ( exclude 17/60 )	1,195	571	1,153	73	2,992	5.72%
E-business	G06F17/60,G06Q	378	998	278	16	1,670	3.19%
Others		73	99	38	9	219	0.42%
Total		15,395	14,555	21,181	1,187	52,318	100.00%

Reporting Date: January 11, 2022

## 18. Statistics on Valid Patents

## Invention &amp; Utility Model

Classification	Invention	Utility Model
A01	2,228	2,505
A21	145	269
A22	26	20
A23	1,519	688
A24	325	67
A41	339	1,076
A42	104	237
A43	568	848
A44	833	375
A45	397	1,634
A46	88	113
A47	2,660	5,996
A61	13,510	5,912
A62	308	771
A63	1,910	2,212
A99	0	1
B01	3,447	1,234
B02	118	115
B03	92	38
B04	45	21
B05	1,430	551
B06	27	13
B07	107	93
B08	564	248
B09	128	99
B21	978	435
B22	569	109
B23	3,664	2,080
B24	1,681	550
B25	2,950	1,783
B26	411	392
B27	150	155
B28	165	72
B29	2,838	854

Classification	Invention	Utility Model
B30	96	75
B31	58	62
B32	3,764	671
B33	16	11
B41	1,475	393
B42	70	210
B43	144	201
B44	126	152
B60	2,452	2,549
B61	191	48
B62	3,253	2,526
B63	228	195
B64	151	104
B65	4,540	4,196
B66	402	444
B67	115	117
B68	6	6
B81	445	13
B82	385	4
C01	2,212	92
C02	916	438
C03	2,214	112
C04	1,001	29
C05	100	49
C06	8	3
C07	9,283	4
C08	12,018	49
C09	8,724	91
C10	493	31
C11	521	59
C12	2,296	177
C13	13	0
C14	15	2
C21	426	54

Classification	Invention	Utility Model
C22	2,024	27
C23	5,090	159
C25	1,496	269
C30	851	26
C40	16	0
D01	599	101
D02	96	73
D03	214	150
D04	483	266
D05	461	209
D06	817	311
D07	15	17
D21	242	45
D99	1	0
E01	138	199
E02	249	237
E03	323	382
E04	1,004	1,754
E05	935	1,023
E06	613	1,055
E21	62	53
F01	311	191
F02	470	271
F03	399	273
F04	1,770	959
F15	175	64
F16	5,154	3,810
F17	170	87
F21	1,444	1,194
F22	42	25
F23	490	370

Classification	Invention	Utility Model
F24	1,422	1,615
F25	598	262
F26	134	120
F27	219	86
F28	785	328
F41	236	379
F42	26	25
G01	13,722	2,337
G02	15,010	1,990
G03	9,526	522
G04	193	102
G05	2,615	316
G06	32,160	8,446
G07	403	287
G08	1,103	727
G09	6,441	778
G10	1,326	334
G11	7,267	307
G12	35	9
G16	189	217
G21	266	7
G99	1	1
H01	68,732	8,507
H02	8,383	2,066
H03	5,406	130
H04	23,435	1,801
H05	9,901	2,924
H99	1	0
Total	338,170	92,956

Reporting Date: January 11, 2022

Note: Counts of valid patents are calculated based on existing patents as of December 31, 2021.

## Design

Classification	Design
01	207
02	1,724
03	1,097
04	372
05	297
06	1,862
07	2,069
08	2,574
09	3,230
10	1,666
11	1,455
12	6,472
13	3,816
14	5,946
15	2,961
16	1,578
17	68
18	150
19	627
20	225

Classification	Design
21	1,473
22	333
23	2,746
24	1,382
25	944
26	2,758
27	114
28	1,481
29	151
30	210
31	312
99	10
Total	50,310

Data Collection Date: January 11, 2022

Note: Counts of valid patents are calculated based on existing patents as of December 31, 2021.

## 19. Statistics on Pending Patent Applications for Examination (2012~2021)

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		
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
2020	49,297	3,855	5,084	6,478	180	-	-	-	205	250	38	604	65,991
2021	50,285	3,626	4,365	7,337	89	-	-	-	228	251	46	451	66,678

Reporting Date: January 11, 2022

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. (2012:10,932; 2013:9,959; 2014:10,734; 2015:9,684; 2016: 10,142; 2017: 9,707; 2018: 7,716; 2019: 9,261; 2020: 8,007; 2021: 8,945).

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
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%	40,965	88.32%
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%	1,724	3.93%	39,283	89.62%
2017	46,122	24,967	54.13%	1,517	3.29%	13,173	28.56%	1,727	3.74%	41,364	89.68%
2018	47,429	27,177	57.30%	1,251	2.64%	12,994	27.40%	1,276	2.69%	42,698	90.02%
2019	48,268	27,736	57.46%	1,284	2.66%	2,535	5.25%	1,044	2.16%	32,599	67.54%
2020	46,665	27,067	58.00%	846	1.81%	213	0.46%	1,157	2.48%	29,283	62.75%
2021	49,116	27,447	55.88%	470	0.96%	173	0.35%	1,212	2.47%	29,302	59.66%

Reporting Date: January 11, 2022

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
2012	159	124
2013	146	83
2014	87	195
2015	113	120
2016	114	133
2017	58	68
2018	95	96
2019	118	86
2020	75	101
2021	69	51

Reporting Date: January 11, 2022

## II. Trademark Cases Filed & Disposed

### A. General Statistics on Trademark Cases (2012-2021)

Year	Item	Application	Registration		Rejection	
		Cases	Cases	Percentage	Cases	Percentage
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%
2020		94,089	78,849	83.80%	9,013	9.58%
2021		95,917	81,460	84.93%	8,482	8.84%

Note: 1. Counts of "Application" are calculated based on the total number of trademark applications collected each year.

2. Counts of "Registration" and "Rejection" are calculated based on the total number of cases published each year.

## B. Statistics on Trademark from 2012 to 2021

### 1. Trademark Applications

Year \ Item	Application		Opposition	Invalidation	Revocation
	By case	By class			
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
2020	94,089	119,660	784	162	832
2021	95,917	123,217	696	152	731

Year \ Item	Renewal	License	Assignment	Alteration
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
2020	48,129	782	9,885	10,289
2021	52,045	581	10,946	10,176

Note: 1. The counts 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 may contain two or more types of goods or services. Therefore, the counts by class have added to the column since 2004.

## 2. Trademark Opposition

Item Year	Sustained		Denied		Partially Sustained		Others	
	Cases	Percentage	Cases	Percentage	Cases	Percentage	Cases	Percentage
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%
2020	307	48.81%	111	17.65%	77	12.24%	134	21.30%
2021	261	40.65%	154	23.99%	72	11.21%	155	24.14%

Note: 1. The table shows the counts 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 designated goods and services are sustained; "Denied" refers to all designated goods and services are denied; "Partially Sustained" means parts of the designated goods and services are sustained.

4. Percentage is derived from using the number of overall 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
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%
2020	67	39.41%	39	22.94%	26	15.29%	38	22.35%
2021	61	40.40%	40	26.49%	14	9.27%	36	23.84%

Note: 1. The table shows the counts 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 designated goods and services are sustained; "Denied" refers to all designated goods and services are denied; "Partially Sustained" means parts of the designated goods and services are sustained.

4. Percentage is derived from using the number of overall 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
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%
2020	486	64.97%	16	2.14%	154	20.59%	92	12.30%
2021	454	62.19%	27	3.70%	170	23.29%	79	10.82%

Note: 1. The table shows the counts 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 designated goods and services are sustained; "Denied" refers to all designated goods and services are denied; "Partially Sustained" means parts of the designated goods and services are sustained.

5. Percentage is derived from using the number of overall disposals as the denominator, "Sustained", "Denied", "Partially Sustained" and "Others" as the numerators.

#### 5. Trademark Administrative Appeals

Item Year	Administrative Appeals					
	Cases Filed	Decisions on Administrative Appeals				
		Original Decisions Revoked	Administrative Appeals Rejected	Others	Other Concluded Cases	Rate of Revocation
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%
2020	535	14	578	7	3	3.49%
2021	477	7	433	3	8	2.22%

Note: 1. The counts above are based on the numbers 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" column refers to administrative appeals that are partially rejected and partially revoked.

## 6. Trademark Administrative Litigation Processed by the Intellectual Property and Commercial Court

Item Year	Cases Received	Cases Concluded							
		Withdrawn	Plaintiff Won	Plaintiff Lost	Partially Sustained	Dismissals	Settlements	Others	Total
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
2020	130	10	12	104	4	6	4	0	140
2021	101	9	5	79	4	0	2	1	100

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

Item Year	Residents		Non-Residents	
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	
2020	72,170		21,919	
2021	73,374		22,543	

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

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

Year \ Item	Residents	Non-Residents
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
2020	56,736	22,113
2021	62,071	19,389

## C. Statistics on Trademarks by Class and Nationality

## 1. Statistics on Trademark Applications and Registrations by Class Covering the Last Three Years

Class	Application			Registration		
	2019	2020	2021	2019	2020	2021
Total	111,588	119,567	123,128	93,419	100,371	102,362
1	1,343	1,436	1,458	1,135	1,258	1,258
2	355	297	248	298	332	299
3	6,754	7,212	6,744	5,761	5,656	5,912
4	472	528	526	404	415	479
5	7,167	8,550	8,389	5,535	6,902	7,146
6	873	868	776	899	841	703
7	2,217	2,061	1,944	1,969	1,989	1,718
8	717	639	726	657	620	578
9	8,635	8,631	8,635	7,327	7,350	7,098
10	1,994	2,584	2,507	1,612	1,840	2,275
11	1,895	1,947	1,931	1,679	1,716	1,617
12	1,452	1,555	1,519	1,395	1,291	1,211
13	75	44	64	84	46	54
14	1,355	1,242	1,428	1,262	1,077	1,064
15	155	143	158	177	122	115
16	2,795	3,132	3,068	2,531	2,568	2,605
17	506	620	567	534	555	515
18	2,210	2,172	2,161	1,871	1,898	1,932
19	444	403	398	440	396	368
20	1,534	1,590	1,606	1,432	1,415	1,412
21	2,236	2,435	2,356	2,016	1,989	2,032
22	182	223	214	187	190	205
23	94	83	83	93	86	71
24	1,035	1,231	1,207	941	963	1,059
25	4,631	4,493	4,533	3,685	3,838	3,919
26	348	389	387	342	329	333
27	211	271	298	245	199	263
28	2,163	2,245	2,351	1,975	1,865	2,050
29	4,185	4,794	5,035	3,170	3,800	4,146
30	7,462	8,359	8,412	5,528	6,752	7,035

Class	Application			Registration		
	2019	2020	2021	2019	2020	2021
31	1,501	1,799	1,923	1,230	1,446	1,626
32	2,238	2,120	2,146	1,733	1,809	1,800
33	1,068	923	1,246	797	903	868
34	415	272	344	294	323	276
35	13,939	15,664	17,653	11,809	13,111	14,141
36	1,767	1,865	2,054	1,625	1,703	1,629
37	1,613	1,771	1,861	1,377	1,604	1,479
38	1,314	1,220	1,361	1,221	1,158	1,052
39	1,115	1,093	1,164	1,021	1,015	927
40	639	726	906	636	621	672
41	5,834	6,314	6,512	4,731	5,402	5,362
42	3,952	4,217	4,816	3,436	3,606	3,576
43	7,349	7,826	7,419	5,679	6,393	6,265
44	2,265	2,447	2,605	1,783	1,945	2,159
45	1,084	1,133	1,389	863	1,034	1,058

Note: Counts above do not include applications and registrations of collective marks and certification marks.

## 2. Statistics on Trademark Applications by Nationality in 2021 (By Case)

Nationality	Application	Percentage	Nationality	Application	Percentage
TAIWAN, REPUBLIC OF CHINA	73,374	76.50%	LUXEMBOURG	46	0.05%
MAINLAND CHINA	4,929	5.14%	VIETNAM	45	0.05%
UNITED STATES OF AMERICA	4,032	4.20%	BULGARIA	37	0.04%
JAPAN	3,437	3.58%	FINLAND	33	0.03%
REPUBLIC OF KOREA	1,571	1.64%	POLAND	29	0.03%
HONG KONG	1,548	1.61%	BERMUDA	28	0.03%
GERMANY	798	0.83%	RUSSIAN FEDERATION	28	0.03%
SINGAPORE	730	0.76%	MAURITIUS	26	0.03%
SWITZERLAND	628	0.65%	CZECH REPUBLIC	20	0.02%
FRANCE	595	0.62%	NORWAY	20	0.02%
UNITED KINGDOM	586	0.61%	PORTUGAL	19	0.02%
ITALY	425	0.44%	MACAO	18	0.02%
CAYMAN ISLANDS	308	0.32%	TURKEY	18	0.02%
AUSTRALIA	298	0.31%	PHILIPPINES	16	0.02%
CANADA	293	0.31%	MEXICO	15	0.02%
BRITISH VIRGIN ISLANDS	286	0.30%	SOUTH AFRICA	14	0.01%
MALAYSIA	188	0.20%	IRAN	12	0.01%
SPAIN	165	0.17%	ROMANIA	12	0.01%
NETHERLANDS	164	0.17%	ESTONIA	11	0.01%
DENMARK	123	0.13%	JORDAN	10	0.01%
SWEDEN	110	0.11%	CHILE	9	0.01%
NEW ZEALAND	92	0.10%	ARGENTINA	8	0.01%
IRELAND	75	0.08%	BRAZIL	7	0.01%
THAILAND	74	0.08%	PANAMA	7	0.01%
SAMOA	67	0.07%	LIECHTENSTEIN	6	0.01%
BELGIUM	55	0.06%	ARMENIA	5	0.01%
SEYCHELLES	55	0.06%	BARBADOS	5	0.01%
AUSTRIA	54	0.06%	CYPRUS	5	0.01%
INDONESIA	54	0.06%	GREECE	5	0.01%
UNITED ARAB EMIRATES	52	0.05%	ICELAND	5	0.01%
ISRAEL	48	0.05%	MOROCCO	5	0.01%
INDIA	47	0.05%	OTHERS	86	0.09%
BELIZE	46	0.05%			

	Subtotal	Ratio
Residents	73,374	76.50%
Non-Residents	22,543	23.50%
Total	95,917	100.00%

Note: 1. Accepting applications for joint ownerships of trademarks began on July 13, 2006. The table above shows the counts of applicants by nationality.

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

### 3. Statistics on Trademark Registrations by Nationality in 2021 (By Case)

Nationality	Registration	Percentage	Nationality	Registration	Percentage
TAIWAN, REPUBLIC OF CHINA	62,071	76.20%	ISREAL	40	0.05%
MAINLAND CHINA	4,111	5.05%	FINLAND	37	0.05%
UNITED STATES OF AMERICA	3,340	4.10%	NORWAY	37	0.05%
JAPAN	3,301	4.05%	SEYCHELLES	30	0.04%
HONG KONG	1,491	1.83%	POLAND	26	0.03%
REPUBLIC OF KOREA	1,290	1.58%	RUSSIAN FEDERATION	26	0.03%
GERMANY	698	0.86%	BULGARIA	23	0.03%
FRANCE	544	0.67%	BERMUDA	23	0.03%
SWITZERLAND	478	0.59%	MACAO	23	0.03%
SINGAPORE	437	0.54%	TURKEY	23	0.03%
UNITED KINGDOM	436	0.54%	UNITED ARAB EMIRATES	18	0.02%
ITALY	395	0.48%	PORTUGAL	18	0.02%
BRITISH VIRGIN ISLANDS	306	0.38%	MEXICO	14	0.02%
CAYMAN ISLANDS	300	0.37%	PHILIPPINES	13	0.02%
AUSTRALIA	230	0.28%	BRAZIL	12	0.01%
CANADA	199	0.24%	BAHAMAS	12	0.01%
SPAIN	171	0.21%	ANGUILLA	9	0.01%
NETHERLANDS	149	0.18%	SLOVAKIA	9	0.01%
MALAYSIA	142	0.17%	GREECE	8	0.01%
SWEDEN	106	0.13%	LIECHTENSTEIN	8	0.01%
DENMARK	90	0.11%	CYPRUS	7	0.01%
THAILAND	84	0.10%	IRAN	7	0.01%
BELGIUM	80	0.10%	SOUTH AFRICA	7	0.01%
NEW ZEALAND	69	0.08%	CHILE	6	0.01%
IRELAND	65	0.08%	SRI LANKA	6	0.01%
BELIZE	59	0.07%	MONACO	6	0.01%
VIETNAM	57	0.07%	MALTA	6	0.01%
AUSTRIA	49	0.06%	ESTONIA	5	0.01%
SAMOA	47	0.06%	PANAMA	5	0.01%
LUXEMBOURG	46	0.06%	ROMANIA	5	0.01%
INDONESIA	44	0.05%	OTHERS	65	0.08%
INDIA	41	0.05%			

	Subtotal	Ratio
Residents	62,071	76.20%
Non-Residents	19,389	23.80%
Total	81,460	100.00%

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

#### D. Statistics on Certification Mark and Collective Membership Mark Covering the Last Ten Years

Year \ Item	Certification Mark		Collective Membership Mark	
	Application	Registration	Application	Registration
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
2020	47	34	46	39
2021	41	29	48	48

### III. Top 20 Online Filing and Online Delivery Patent and Trademark Attorneys

#### 1. Top 20 Online Filing Attorney Offices in 2021

Patent			Trademark		
Ranking	Attorney Offices	Rate of Online Filing	Ranking	Attorney Offices	Rate of Online Filing
1	Lee and Li, Attorneys-at-Law	14.72%	1	Saint Island International Patent & Law Offices	8.56%
2	Jianq Chyun Intellectual Property Office	8.91%	2	Tai E International Patent & Law Office	7.50%
3	TSAL, LEE & CHEN Patent Attorneys & Attorneys at Law	7.80%	3	Lee and Li, Attorneys-at-Law	7.41%
4	Taiwan International Patent & Law Office	7.16%	4	Taiwan International Patent & Law Office	2.62%
5	Saint Island International Patent & Law Offices	7.08%	5	Oger International Patent & Trademark Office	2.15%
6	Tai E International Patent & Law Office	6.29%	6	Gold Keen Intellectual Property Office	2.14%
7	Top Team International Patent & Trademark Office	4.24%	7	Winkler Partners Attorneys at Law of Taiwan and Foreign Legal Affairs	1.99%
8	Li & Cai Intellectual Property Office	2.50%	8	Baker & McKenzie	1.67%
9	North America Union Patent & Trademark Office	1.51%	9	Long River International Patent, Trademark & Law Office	1.44%
10	JOU & JOU Patent Offices	1.32%	10	Asia Lih Intellectual Property Office	1.43%
11	Wideband IP Office	1.20%	11	World Patent & Trademark Law Office	1.26%
12	Taiwan Advance Patent & Trademark Office	1.04%	12	Union Patent Service Center	1.21%
13	ScienBiziP Law Offices of International Commerce	1.01%	13	TSAL, LEE & CHEN Patent Attorneys & Attorneys at Law	1.20%
14	Formosan Brothers Attorneys-at-Law	0.96%	13	Show Brand Intellectual Property Office	1.20%
15	Hua Ding Patent and Law Office	0.93%	15	Asian Pacific Int'l Patent & Trademark Office	1.17%
16	Long River International Patent, Trademark & Law Office	0.90%	16	Titan International Patent & Trademark Office	1.09%
17	Union Patent Service Center	0.82%	16	Giant Group International Patent, Trademark & Law Office	1.09%
18	One Team Patent Office	0.80%	18	Jaw-Hwa International Patent & Trademark & Law Offices	1.00%
19	Louis International Patent Office	0.75%	19	Nan E International Intellectual Property Office	0.98%
20	SUNDIAL Intellectual Property Law Firm	0.74%	20	Chien Yeh & Associates	0.91%

Note: The percentage is derived from using the number of applications filed electronically by agents (actual electronic signers) corresponding to the firms to which the agents belong as the numerators, and that of electronic applications by all agents as the denominators. The information of firms and agents is based on that published on TIPO's website.

## 2. Top 20 Online Delivery Attorney Offices in 2021

Patent			Trademark		
Ranking	Attorney Offices	Rate of Online Delivery	Ranking	Attorney Offices	Rate of Online Delivery
1	Lee and Li, Attorneys-at-Law	13.39%	1	Saint Island International Patent & Law Offices	8.45%
2	Taiwan International Patent & Law Office	8.53%	2	Tai E International Patent & Law Office	8.04%
3	Jianq Chyun Intellectual Property Office	7.75%	3	Lee and Li, Attorneys-at-Law	6.29%
4	TSAL, LEE & CHEN Patent Attorneys & Attorneys at Law	6.61%	4	Taiwan International Patent & Law Office	3.15%
5	Saint Island International Patent & Law Offices	6.34%	5	Oger International Patent & Trademark Office	2.23%
6	Tai E International Patent & Law Office	4.60%	6	Winkler Partners Attorneys at Law of Taiwan and Foreign Legal Affairs	1.75%
7	Top Team International Patent & Trademark Office	3.28%	7	TSAL, LEE & CHEN Patent Attorneys & Attorneys at Law	1.74%
8	Louis International Patent Office	2.37%	8	Baker & McKenzie	1.48%
9	Li & Cai Intellectual Property Office	2.15%	9	Asia Lih Intellectual Property Office	1.42%
10	WENPING & CO. International Patent & Trademark Office	1.58%	10	Union Patent Service Center	1.36%
11	North America Union Patent & Trademark Office	1.42%	11	Taiwan Advance Patent & Trademark Office	1.29%
12	JOU & JOU Patent Offices	1.38%	12	Long River International Patent, Trademark & Law Office	1.16%
13	Union Patent Service Center	1.09%	12	Giant Group International Patent, Trademark & Law Office	1.16%
14	Long River International Patent, Trademark & Law Office	1.01%	14	WENPING & CO. International Patent & Trademark Office	1.12%
15	Taiwan Advance Patent & Trademark Office	0.99%	15	Jaw-Hwa International Patent & Trademark & Law Offices	1.05%
16	AIPT International Patent Office	0.98%	16	Titan International Patent & Trademark Office	1.02%
17	Wideband IP Office	0.95%	17	Nan E International Intellectual Property Office	1.00%
18	Giant Group International Patent, Trademark & Law Office	0.89%	18	Wanlin International Trademark Office	0.98%
19	Formosan Brothers Attorneys-at-Law	0.81%	19	World Patent & Trademark Law Office	0.93%
20	Tsar & Tsai Law Firm	0.80%	20	Tsar & Tsai Law Firm	0.91%