

2. Annual Statistics

I. Patent Applications Filed & Disposed

A. General Statistics on Patent Cases (2014-2023)

Year \ Item	Application	Certificate Issued	Grant
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
2022	72,059	58,015	58,014
2023	72,607	59,698	59,698

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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 2014 to 2023

1. Patent Cases Filed & Disposed

Year \ Item	Application	Reexamination	Invalidation	Assignment	Licensing
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
2022	72,059	6,540	431	5,851	123
2023	72,607	6,664	360	4,287	66

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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
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
2022	50,242	49,559	44,402	6,426	9,904	37,175	180
2023	50,854	50,024	44,206	6,538	9,984	39,253	142

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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
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
2022	14,662	146	14,212	758	831	219
2023	14,466	156	14,035	731	787	196

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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
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
2022		7,155	114	629	6,627	32
2023		7,287	125	697	6,410	22

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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
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
2022		0	0	45	99	24	168	18	28	46	99	85	34	218
2023		0	0	41	87	9	137	21	36	57	101	99	7	207

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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. 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.

3. 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
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%
2022	198	4	1	190	3	2.5%
2023	216	3	0	232	6	1.2%

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
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
2022	83	9	11	59	1	2	0	0	82
2023	74	3	10	52	4	1	0	0	70

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
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
2022	19,400	13,669	3,411	36,480	30,842	993	3,744	35,579
2023	19,634	13,309	3,437	36,380	31,220	1,157	3,850	36,227

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9. Resident and Non-Resident Patent Grants

Item Year	Residents				Non-Residents			
	Invention	Utility Model	Design	Total	Invention	Utility Model	Design	Total
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
2022	15,899	13,114	2,916	31,929	21,276	1,098	3,711	26,085
2023	16,540	13,107	3,148	32,795	22,713	928	3,262	26,903

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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		
	2020	2021	2022	2021	2022	2023
A01	383	354	373	259	272	395
A21	26	25	24	24	8	19
A22	5	4	6	6	3	2
A23	321	295	233	229	176	149
A24	217	142	86	73	47	61
A41	92	71	57	60	38	37
A42	16	17	20	30	9	12
A43	80	78	82	88	61	70
A44	49	42	46	40	33	40
A45	97	75	75	62	79	68
A46	31	30	19	22	15	12
A47	520	476	473	480	392	387
A61	2,862	3,168	3,271	1,911	1,942	2,149
A62	126	104	71	64	59	48
A63	255	306	304	242	242	297
A99	0	0	0	0	0	0
B01	534	499	518	354	352	368
B02	27	19	6	11	7	12
B03	22	14	10	17	16	13
B04	3	4	7	0	2	4
B05	166	179	161	96	167	163
B06	5	6	14	6	3	11
B07	19	17	19	17	18	22
B08	106	139	144	72	100	138
B09	32	38	40	15	31	35
B21	100	103	86	95	89	86
B22	72	73	83	47	59	51
B23	537	528	552	439	423	370
B24	245	248	328	180	167	195
B25	449	460	514	367	376	438
B26	40	61	43	41	43	51

Classification	Application			Grant		
	2020	2021	2022	2021	2022	2023
B27	10	11	18	15	6	9
B28	32	38	24	23	18	29
B29	427	433	396	339	366	334
B30	11	8	15	12	3	6
B31	13	12	9	10	6	6
B32	668	698	691	476	475	443
B33	7	17	12	2	12	11
B41	116	110	94	114	95	89
B42	6	13	9	6	12	5
B43	30	23	26	15	14	20
B44	15	6	13	7	5	5
B60	433	523	502	346	358	413
B61	27	31	29	26	23	27
B62	409	451	492	404	362	424
B63	45	40	49	23	33	25
B64	41	42	31	30	25	26
B65	744	693	701	532	487	547
B66	74	74	49	48	51	52
B67	15	15	15	10	13	2
B68	1	1	1	0	1	0
B81	46	34	39	62	34	29
B82	23	25	30	30	26	20
C01	360	325	370	212	243	244
C02	137	147	140	124	90	78
C03	314	286	268	232	238	244
C04	141	163	138	118	129	99
C05	13	17	27	16	12	11
C06	2	0	0	2	1	0
C07	2,157	2,391	2,336	1,199	1,293	1,401
C08	2,156	2,212	2,340	1,379	1,535	1,687
C09	1,415	1,317	1,201	989	1,069	1,139
C10	66	71	69	28	35	34
C11	92	95	96	68	67	73

Classification	Application			Grant		
	2020	2021	2022	2021	2022	2023
C12	526	647	683	319	312	305
C13	0	0	0	2	1	0
C14	0	0	1	0	0	3
C21	67	73	78	43	47	73
C22	252	218	219	262	208	166
C23	780	844	759	622	491	636
C25	202	236	220	186	178	169
C30	148	157	209	124	110	108
C40	0	0	0	1	0	1
D01	74	77	68	49	71	47
D02	24	24	18	13	23	22
D03	37	31	35	23	27	23
D04	74	79	51	65	68	69
D05	26	32	36	43	35	31
D06	123	133	95	88	97	107
D07	0	0	2	1	0	1
D21	30	24	18	39	26	27
D99	0	0	0	0	0	0
E01	22	21	17	20	18	18
E02	44	36	49	19	35	34
E03	59	50	25	46	50	35
E04	182	220	218	152	233	224
E05	124	138	120	131	94	102
E06	73	61	81	66	71	59
E21	13	7	19	3	12	18
F01	27	35	40	17	26	26
F02	28	22	31	19	21	19
F03	96	102	105	53	78	65
F04	184	250	192	186	177	173
F15	24	21	13	25	16	17
F16	606	590	563	572	454	478
F17	36	18	38	14	24	26
F21	138	144	123	139	120	133

Classification	Application			Grant		
	2020	2021	2022	2021	2022	2023
F22	10	11	7	5	9	10
F23	67	68	82	37	30	65
F24	197	206	216	143	142	158
F25	58	55	94	57	39	56
F26	25	21	23	15	17	27
F27	34	35	28	10	36	21
F28	147	157	201	90	109	198
F41	47	47	64	27	21	50
F42	5	5	4	2	2	2
G01	1,972	2,157	2,145	1,510	1,612	1,903
G02	1,601	1,473	1,593	1,313	1,219	1,259
G03	969	1,062	982	868	818	939
G04	23	10	5	23	11	10
G05	288	402	432	234	233	289
G06	4,817	4,583	4,610	3,705	4,299	4,044
G07	61	45	32	53	52	36
G08	195	152	141	128	133	119
G09	586	612	697	529	545	610
G10	195	209	178	166	149	156
G11	651	715	799	724	707	500
G12	2	1	0	2	0	0
G16	195	276	274	85	176	225
G21	46	38	28	25	26	36
G99	0	0	0	0	0	0
H01	7,403	9,018	9,162	6,743	6,738	7,560
H02	914	893	1,020	730	748	776
H03	413	535	521	372	434	434
H04	2,626	2,568	2,461	2,511	2,463	2,363
H05	1,097	1,147	1,208	883	918	951
H10	0	0	740	0	0	6
H99	0	0	0	0	0	0
X	519	428	474	0	0	0

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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		
	2020	2021	2022	2021	2022	2023
A01	528	446	412	459	412	408
A21	54	42	41	39	43	29
A22	4	5	2	2	5	3
A23	140	142	130	130	131	120
A24	23	18	7	15	12	3
A41	252	228	161	238	180	122
A42	57	56	52	61	45	47
A43	120	124	90	119	108	93
A44	68	81	41	71	59	43
A45	337	227	235	254	217	206
A46	27	15	18	22	12	21
A47	1,187	1,000	921	987	861	895
A61	1,239	1,086	833	1,052	915	804
A62	324	199	112	220	137	84
A63	437	364	360	378	346	330
A99	1	0	0	0	0	1
B01	227	240	202	186	247	174
B02	18	19	20	22	17	17
B03	11	7	2	7	6	8
B04	4	2	3	3	0	6
B05	93	82	85	78	74	81
B06	1	1	1	2	1	0
B07	18	16	12	17	17	15
B08	49	42	50	41	43	59
B09	27	23	32	25	25	22
B21	66	50	48	58	43	46
B22	12	19	14	18	13	9
B23	378	284	274	302	257	278
B24	79	60	67	65	64	55
B25	276	227	235	240	213	217
B26	63	43	54	53	46	43
B27	18	12	16	14	15	19

Classification	Application			Grant		
	2020	2021	2022	2021	2022	2023
B28	9	18	6	13	9	6
B29	121	96	141	112	100	113
B30	9	13	9	11	9	12
B31	18	6	9	8	3	12
B32	118	99	78	101	86	93
B33	3	0	1	0	0	2
B41	44	39	31	37	34	42
B42	37	27	20	31	29	12
B43	42	28	30	33	32	17
B44	43	31	22	26	30	22
B60	410	428	371	419	365	371
B61	13	8	8	14	6	11
B62	455	408	376	414	373	369
B63	34	50	31	41	37	33
B64	24	26	23	26	18	23
B65	876	706	713	752	722	650
B66	92	77	69	79	76	59
B67	17	25	22	23	25	16
B68	4	1	3	3	0	3
B81	0	1	0	1	0	2
B82	0	0	0	0	0	1
C01	17	16	8	18	9	12
C02	76	99	79	81	83	70
C03	19	7	7	16	7	8
C04	10	5	6	4	4	5
C05	7	8	7	6	7	9
C06	0	0	0	0	0	0
C07	1	2	4	1	5	2
C08	11	14	11	10	13	11
C09	20	15	20	10	16	16
C10	4	11	4	6	8	2
C11	10	13	6	8	11	13
C12	32	33	30	29	37	30

Classification	Application			Grant		
	2020	2021	2022	2021	2022	2023
C13	0	0	0	0	0	0
C14	0	0	0	0	0	1
C21	15	8	14	17	11	8
C22	10	5	1	7	3	1
C23	38	38	38	49	31	33
C25	48	25	30	32	27	38
C30	2	4	4	4	5	1
C40	0	0	0	0	0	0
D01	18	18	11	20	15	9
D02	15	16	9	14	12	4
D03	33	22	21	24	17	21
D04	50	31	26	40	24	23
D05	20	21	23	17	23	32
D06	66	61	34	51	50	37
D07	3	0	0	0	0	0
D21	9	6	4	5	6	4
D99	0	0	0	0	0	0
E01	44	37	24	41	29	26
E02	38	31	37	31	31	33
E03	69	73	62	63	67	57
E04	353	315	318	314	299	314
E05	151	132	118	151	111	130
E06	192	134	130	171	98	161
E21	9	8	6	9	4	8
F01	37	33	27	42	24	30
F02	41	26	31	29	34	27
F03	57	69	80	43	75	52
F04	159	151	133	135	154	123
F15	10	15	16	13	13	12
F16	669	565	491	625	501	533
F17	15	14	20	15	17	23
F21	173	156	151	143	153	152
F22	0	5	0	4	1	1

Classification	Application			Grant		
	2020	2021	2022	2021	2022	2023
F23	68	56	36	60	42	38
F24	279	250	198	254	213	198
F25	40	42	35	30	41	45
F26	22	18	22	21	19	23
F27	22	14	7	17	7	6
F28	66	98	104	83	108	86
F41	67	44	50	67	43	52
F42	2	8	4	5	3	6
G01	433	436	349	430	360	349
G02	318	283	299	281	285	286
G03	90	78	85	78	76	87
G04	18	14	11	16	10	6
G05	59	59	48	63	49	41
G06	1,870	1,809	1,897	1,823	1,660	1,935
G07	64	78	62	66	61	58
G08	171	158	133	153	139	109
G09	195	166	194	173	143	188
G10	69	64	33	66	39	34
G11	42	31	25	35	23	28
G12	2	3	1	1	3	1
G16	91	87	86	91	92	61
G21	3	4	0	5	1	0
G99	0	1	0	1	0	0
H01	1,159	1,303	1,190	1,237	1,190	1,123
H02	369	308	330	324	295	330
H03	28	37	30	20	33	33
H04	305	264	275	288	256	240
H05	475	436	473	434	468	473
H10	0	0	1	0	0	0
H99	0	0	0	0	0	0
X	170	158	149	0	0	0

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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		
	2020	2021	2022	2021	2022	2023
01	57	57	43	36	28	24
02	242	267	201	194	176	204
03	184	220	126	158	151	146
04	74	53	44	39	36	45
05	59	42	32	47	38	21
06	307	323	332	228	275	316
07	331	288	310	237	247	299
08	356	292	303	338	268	249
09	484	461	406	403	416	406
10	168	218	259	156	235	232
11	272	395	314	251	323	285
12	1,010	808	788	1,034	802	608
13	578	547	557	601	394	493
14	973	1,037	872	965	918	788
15	377	327	327	347	311	305
16	199	184	186	150	118	153
17	7	5	7	7	3	5
18	29	9	3	14	10	3
19	92	88	102	77	86	95
20	35	16	22	17	19	19
21	231	246	223	247	246	186
22	55	65	49	64	48	40
23	483	455	478	383	426	438
24	249	236	241	215	235	233
25	150	117	125	135	72	116
26	487	463	356	424	396	356
27	41	36	23	24	56	13
28	282	237	239	249	194	198
29	46	68	60	38	42	68
30	42	31	43	35	24	30
31	51	33	33	45	30	35
32	0	6	4	0	4	1
X	68	71	48	0	0	0

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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 2022 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	6,784
2	G06F	Electric digital data processing	2,681
3	A61K	Preparations for medical, dental, or toilet purposes	1,998
4	G02B	Optical elements, systems, or apparatus	1,113
5	C07D	Heterocyclic compounds	993
6	G06Q	Electronic commerce	971
7	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	929
8	C08G	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	802
9	C07K	Peptides	799
10	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor	789
11	G11C	Static stores	777
12	H04W	Wireless communication networks	768
13	G01N	Investigating or analyzing materials by determining their chemical or physical properties	726
14	C23C	Coating metallic material; coating material with metallic material	718
15	H04N	Pictorial communication	716
16	B32B	Layered products	691
17	G01R	Measuring electric variables; measuring magnetic variables	632
18	C08F	Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds	547
19	C08L	Compositions of macromolecular compounds	540
20	H04L	Transmission of digital information	514

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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 2023.01.

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 2022 (TOP 20)

Rank	IPC	IPC Subject	Total
1	G06Q	Electronic commerce	1,293
2	G06F	Electric digital data processing	479
3	H01R	Electrically-conductive connections	437
4	B65D	Containers for storage or transport of articles or materials	412
5	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	410
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	360
7	A47G	Household or table equipment	246
8	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	217
9	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	215
10	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	166
10	B01D	Separation	166
12	G02B	Optical elements, systems, or apparatus	165
13	B65G	Transport or storage devices	161
14	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	151
15	A61B	Diagnosis; surgery; identification	148
16	A01G	Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops or seaweed; forestry; watering	145
17	G09B	Educational or demonstration appliances; appliances for teaching, or communicating with, the blind, deaf or mute; models	135
18	A47C	Chairs; sofas; beds	134
19	A61H	Physical therapy apparatus	129
19	B62J	Cycle saddles or seats	129

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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 2023.01.

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 2022 (TOP 20)

Rank	LOC	LOC Subject	Total
1	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	422
2	14-02	Data processing equipment as well as peripheral apparatus and devices	344
3	13-03	Equipment for distribution or control of electric power	267
3	14-04	Screen displays and icons	267
5	26-06	Luminous devices for vehicles	253
6	11-01	Jewellery	209
6	23-01	Fluid distribution equipment	209
8	28-03	Toilet articles and beauty parlor equipment	207
9	12-11	Cycles and motorcycles	143
10	07-02	Cooking appliances, utensils and containers	142
10	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	142
12	23-04	Ventilation and air-conditioning equipment	140
13	13-99	Miscellaneous	137
14	21-01	Games and toys	135
15	16-06	Optical articles	128
16	06-04	Storage furniture	123
16	13-02	Power transformers, rectifiers, batteries and accumulators	123
18	03-01	Trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	119
19	02-04	Footwear, socks and stockings	118
19	09-03	Boxes, cases, containers, (preserve) tins or cans	118

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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 2023 (TOP 20)

Rank	IPC	IPC Subject	Total
1	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	5,756
2	G06F	Electric digital data processing	2,388
3	A61K	Preparations for medical, dental, or toilet purposes	1,045
4	G02B	Optical elements, systems, or apparatus	839
5	G06Q	Electronic commerce	796
6	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	752
7	G03F	Photomechanical production of textured or patterned surfaces; materials therefor; originals therefor; apparatus specially adapted therefor	732
8	H04N	Pictorial communication	720
9	H04W	Wireless communication networks	715
10	G01N	Investigating or analyzing materials by determining their chemical or physical properties	659
11	C07D	Heterocyclic compounds	632
12	C23C	Coating metallic material; coating material with metallic material	594
13	G01R	Measuring electric variables; measuring magnetic variables	551
14	C08G	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	550
15	H04L	Transmission of digital information	549
16	C08L	Compositions of macromolecular compounds	478
17	G11C	Static stores	448
18	A61B	Diagnosis; surgery; identification	445
19	B32B	Layered products	443
20	G09G	Arrangements or circuits for control of indicating devices using static means to present variable information	427

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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 2023.01.

8. Counts of Utility Model Patent Grants Ranked by International Patent Classification (IPC) in 2023 (TOP 20)

Rank	IPC	IPC Subject	Total
1	G06Q	Electronic commerce	1,307
2	G06F	Electric digital data processing	507
3	H01R	Electrically-conductive connections	448
4	H05K	Printed circuits; casings or constructional details of electric apparatus; manufacture of assemblages of electrical components	415
5	B65D	Containers for storage or transport of articles or materials	397
6	H01L	Semiconductor devices; electric solid state devices not otherwise provided for	312
7	A47G	Household or table equipment	227
8	A47J	Kitchen equipment; coffee mills; spice mills; apparatus for making beverages	202
8	A63B	Apparatus for physical training, gymnastics, swimming, climbing, or fencing; ball games; training equipment	202
10	A01K	Animal husbandry; care of birds, fishes, insects; fishing; rearing or breeding animals, not otherwise provided for; new breeds of animals	194
11	A61B	Diagnosis; surgery; identification	167
12	A47B	Tables; desks; office furniture; cabinets; drawers; general details of furniture	158
13	E06B	Fixed or movable closures for openings in buildings, vehicles, fences, or like enclosures, in general	152
14	B01D	Separation	143
15	B23Q	Details, components, or accessories for machine tools	137
16	B62J	Cycle saddles or seats	135
16	G02B	Optical elements, systems, or apparatus	135
18	A47C	Chairs; sofas; beds	133
18	G09B	Educational or demonstration appliances; appliances for teaching, or communicating with, the blind, deaf or mute; models	133
20	A61H	Physical therapy apparatus	129
20	B65G	Transport or storage devices	129

Reporting Date: January 11, 2024

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

2. Please refer to International Patent Classification version 2023.01 for detailed classification descriptions.

9. Counts of Design Patent Grants Ranked by International Classification for Industrial Designs (LOC) in 2023 (TOP 20)

Rank	LOC	LOC Subject	Total
1	14-02	Data processing equipment as well as peripheral apparatus and devices	296
2	13-03	Equipment for distribution or control of electric power	285
3	12-16	Parts, equipment and accessories for vehicles, not included in other classes or subclasses	275
4	26-06	Luminous devices for vehicles	251
5	14-04	Screen displays and icons	245
6	23-01	Fluid distribution equipment	210
7	11-01	Jewellery	197
8	28-03	Toilet articles and beauty parlor equipment	177
9	07-02	Cooking appliances, utensils and containers	155
10	12-11	Cycles and motorcycles	154
11	09-03	Boxes, cases, containers, (preserve) tins or cans	140
12	03-01	Trunks, suitcases, briefcases, handbags, keyholders, cases specially designed for their contents, wallets and similar articles	137
13	09-01	Bottles, flasks, pots, carboys, demijohns, and containers with dynamic dispensing means	131
14	02-04	Footwear, socks and stockings	115
15	21-01	Games and toys	112
16	16-06	Optical articles	107
17	06-04	Storage furniture	106
18	14-03	Communications equipment, wireless remote controls and radio amplifiers	103
19	14-01	Equipment for the recording or reproduction of sounds or pictures	101
20	23-04	Ventilation and air-conditioning equipment	99

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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 (2023)

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	19,634	13,309	3,437	36,380	50.11%
JAPAN	12,505	62	937	13,504	18.60%
UNITED STATES OF AMERICA	6,731	93	823	7,647	10.53%
MAINLAND CHINA	3,809	724	469	5,002	6.89%
REPUBLIC OF KOREA	3,112	37	150	3,299	4.54%
GERMANY	954	5	239	1,198	1.65%
SWITZERLAND	632	5	392	1,029	1.42%
NETHERLANDS	725	12	58	795	1.09%
SINGAPORE	507	45	82	634	0.87%
FRANCE	316	2	195	513	0.71%
UNITED KINGDOM	421	0	48	469	0.65%
HONG KONG	143	92	81	316	0.44%
SWEDEN	148	0	55	203	0.28%
ITALY	92	2	89	183	0.25%
ISRAEL	149	3	8	160	0.22%
CANADA	113	3	11	127	0.17%
CAYMAN ISLANDS	93	23	3	119	0.16%
AUSTRIA	110	0	1	111	0.15%
AUSTRALIA	52	4	54	110	0.15%
BELGIUM	90	0	14	104	0.14%
DENMARK	78	0	9	87	0.12%
FINLAND	80	1	0	81	0.11%
NEW ZEALAND	23	0	52	75	0.10%
IRELAND	58	0	2	60	0.08%
SAMOA	30	12	1	43	0.06%
NORWAY	31	2	9	42	0.06%

Nationality	Application				
	Invention	Utility Model	Design	Total	Percentage
SPAIN	28	1	3	32	0.04%
MALAYSIA	15	8	4	27	0.04%
INDONESIA	0	0	26	26	0.04%
INDIA	24	1	0	25	0.03%
RUSSIAN FEDERATION	11	2	6	19	0.03%
BRITISH VIRGIN ISLANDS	11	5	0	16	0.02%
LUXEMBOURG	15	0	0	15	0.02%
THAILAND	5	1	8	14	0.02%
SLOVENIA	8	0	4	12	0.02%
VIETNAM	3	1	5	9	0.01%
POLAND	8	0	0	8	0.01%
BRAZIL	7	0	0	7	0.01%
LIECHTENSTEIN	7	0	0	7	0.01%
UNITED ARAB EMIRATES	3	1	2	6	0.01%
ANGUILLA	3	3	0	6	0.01%
SEYCHELLES	3	1	1	5	0.01%
ESTONIA	1	0	4	5	0.01%
MACAO	1	3	1	5	0.01%
OTHERS	65	3	4	72	0.07%
TOTAL	50,854	14,466	7,287	72,607	100.00%

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

11. Statistics on Pre-Grant Publications by Nationality (2023)

Nationality	Pre-Grant Publication	Percentage	Nationality	Pre-Grant Publication	Percentage
TAIWAN, REPUBLIC OF CHINA	18,878	37.74%	DENMARK	68	0.14%
JAPAN	12,306	24.60%	IRELAND	55	0.11%
UNITED STATES OF AMERICA	7,551	15.09%	INDIA	43	0.09%
MAINLAND CHINA	3,531	7.06%	NEW ZEALAND	32	0.06%
REPUBLIC OF KOREA	2,711	5.42%	SPAIN	31	0.06%
GERMANY	954	1.91%	AUSTRALIA	30	0.06%
NETHERLANDS	665	1.33%	MALAYSIA	24	0.05%
SWITZERLAND	606	1.21%	NORWAY	23	0.05%
SINGAPORE	541	1.08%	SAMOA	21	0.04%
UNITED KINGDOM	308	0.62%	BRITISH VIRGIN ISLANDS	20	0.04%
FRANCE	264	0.53%	LUXEMBOURG	15	0.03%
HONG KONG	196	0.39%	RUSSIAN FEDERATION	15	0.03%
SWEDEN	154	0.31%	POLAND	7	0.01%
ISRAEL	131	0.26%	BRAZIL	6	0.01%
CANADA	117	0.23%	LIECHTENSTEIN	6	0.01%
ITALY	107	0.21%	ANTIGUA AND BARBUDA	5	0.01%
BELGIUM	103	0.21%	SEYCHELLES	5	0.01%
FINLAND	96	0.19%	OTHERS	231	0.47%
AUSTRIA	87	0.17%	TOTAL	50,024	100.00%
CAYMAN ISLANDS	81	0.16%			

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

12. Statistics on Patent Grants by Nationality (2023)

Nationality	Number of Granted Patents				
	Invention	Utility Model	Design	Total	Percentage
TAIWAN, REPUBLIC OF CHINA	16,540	13,107	3,148	32,795	54.93%
JAPAN	9,640	40	865	10,545	17.66%
UNITED STATES OF AMERICA	4,738	89	582	5,409	9.06%
MAINLAND CHINA	2,687	553	335	3,575	5.99%
REPUBLIC OF KOREA	1,908	29	127	2,064	3.46%
GERMANY	747	5	217	969	1.62%
SWITZERLAND	414	1	338	753	1.26%
NETHERLANDS	549	4	158	711	1.19%
SINGAPORE	459	39	72	570	0.95%
FRANCE	163	4	154	321	0.54%
HONG KONG	160	73	72	305	0.51%
UNITED KINGDOM	219	2	39	260	0.44%
SWEDEN	109	1	48	158	0.26%
CAYMAN ISLANDS	110	30	3	143	0.24%
ITALY	81	2	57	140	0.23%
AUSTRIA	110	1	0	111	0.19%
ISRAEL	85	3	1	89	0.15%
CANADA	73	0	9	82	0.14%
NEW ZEALAND	14	0	62	76	0.13%
AUSTRALIA	29	3	41	73	0.12%
BELGIUM	54	0	12	66	0.11%
FINLAND	61	0	2	63	0.11%
DENMARK	54	0	9	63	0.11%
IRELAND	41	0	1	42	0.07%
ANTIGUA AND BARBUDA	37	0	0	37	0.06%
INDIA	31	1	2	34	0.06%

Nationality	Number of Granted Patents				
	Invention	Utility Model	Design	Total	Percentage
MALAYSIA	15	10	6	31	0.05%
SAMOA	10	16	5	31	0.05%
BRITISH VIRGIN ISLANDS	14	6	2	22	0.04%
LIECHTENSTEIN	15	0	0	15	0.03%
VIETNAM	6	2	7	15	0.03%
SPAIN	11	0	3	14	0.02%
NORWAY	6	0	8	14	0.02%
LUXEMBOURG	13	0	0	13	0.02%
SLOVENIA	0	0	12	12	0.02%
RUSSIAN FEDERATION	4	1	6	11	0.02%
ANGUILLA	4	4	0	8	0.01%
THAILAND	6	0	1	7	0.01%
UNITED ARAB EMIRATES	6	0	0	6	0.01%
CZECH REPUBLIC	5	1	0	6	0.01%
CAMBODIA	0	5	1	6	0.01%
MACAO	3	1	1	5	0.01%
OTHERS	22	2	4	28	0.05%
TOTAL	39,253	14,035	6,410	59,698	100.00%

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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 2023 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	1,956	0	0	1,956
2	MEDIATEK INC.	541	3	0	544
3	AU OPTRONICS CORPORATION	448	4	8	460
4	ACER INCORPORATED	292	22	105	419
5	NANYA TECHNOLOGY CORPORATION	373	0	0	373
6	INVENTEC CORPORATION	303	27	0	330
7	INNOLUX CORPORATION	324	2	0	326
8	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	310	4	1	315
9	REALTEK SEMICONDUCTOR CORPORATION	271	0	0	271
10	DELTA ELECTRONICS, INC.	188	46	36	270
11	CHINA STEEL CORPORATION	134	121	0	255
12	ASUSTEK COMPUTER INC.	80	171	0	251
13	TAIWAN COOPERATIVE BANK CO., LTD.	35	188	0	223
14	MEGA INTERNATIONAL COMMERCIAL BANK CO., LTD.	27	168	0	195
15	UNITED MICROELECTRONICS CORP.	177	2	0	179
16	HON HAI PRECISION INDUSTRY CO., LTD.	134	24	18	176
17	COMPAL ELECTRONICS, INC.	123	16	24	163
18	CHUNGHWA TELECOM CO., LTD.	156	1	0	157
19	CTBC BANK CO., LTD.	20	120	4	144
20	PEGATRON CORPORATION	123	17	1	141

Reporting Date: January 11, 2024

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 2023 (Top 20)

Rank	Applicant	Number of Grants			
		Invention	Utility Model	Design	Total
1	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	1,040	0	0	1,040
2	AU OPTRONICS CORPORATION	460	6	18	484
3	ACER INCORPORATED	280	36	154	470
4	REALTEK SEMICONDUCTOR CORPORATION	415	0	0	415
5	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	367	14	0	381
6	NANYA TECHNOLOGY CORPORATION	362	0	0	362
7	MEDIATEK INC.	307	2	0	309
8	CHINA STEEL CORPORATION	116	122	0	238
9	ASUSTEK COMPUTER INC.	74	157	2	233
10	INVENTEC CORPORATION	207	22	0	229
11	DELTA ELECTRONICS, INC.	149	43	31	223
12	TAIWAN COOPERATIVE BANK CO., LTD.	11	196	0	207
13	MEGA INTERNATIONAL COMMERCIAL BANK CO., LTD.	34	165	0	199
14	COMPAL ELECTRONICS, INC.	159	9	27	195
15	HON HAI PRECISION INDUSTRY CO., LTD.	155	23	4	182
16	BANK OF TAIWAN	13	160	2	175
17	TAIPEI CHENGSHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	10	160	0	170
18	PEGATRON CORPORATION	137	17	0	154
19	CHUNGHWA TELECOM CO., LTD.	150	1	0	151
19	QUANTA COMPUTER INC.	77	60	14	151

Reporting Date: January 11, 2024

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 2023 (Top 20)

Rank	Applicant	Number of Applications			
		Invention	Utility Model	Design	Total
1	SAMSUNG ELECTRONICS CO., LTD.	977	0	1	978
2	APPLIED MATERIALS, INC.	738	2	39	779
3	QUALCOMM INCORPORATED	639	0	0	639
4	TOKYO ELECTRON LIMITED	547	0	8	555
5	NITTO DENKO CORPORATION	478	0	0	478
6	COUPANG CORP.	454	0	0	454
7	ASML NETHERLANDS B.V.	309	0	0	309
8	FUJIFILM CORPORATION	275	0	10	285
9	SHIN-ETSU CHEMICAL CO., LTD.	229	3	40	272
10	LAM RESEARCH CORPORATION	247	1	16	264
11	SCREEN HOLDINGS CO., LTD.	259	0	1	260
12	RESONAC CORPORATION	243	0	8	251
13	APPLE INC.	34	0	205	239
14	FANUC CORPORATION	208	0	15	223
15	DISCO CORPORATION	222	0	0	222
16	KIOXIA CORPORATION	218	0	1	219
17	ASM IP HOLDING B.V.	197	1	9	207
18	SUMITOMO CHEMICAL CO., LTD.	193	0	0	193
19	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	177	0	0	177
20	AGC INC.	170	0	0	170

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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 2023 (Top 20)

Rank	Applicant	Number of Grants			
		Invention	Utility Model	Design	Total
1	APPLIED MATERIALS, INC.	558	3	30	591
2	KIOXIA CORPORATION	436	0	0	436
3	SAMSUNG ELECTRONICS CO., LTD.	371	0	5	376
4	QUALCOMM INCORPORATED	368	0	0	368
5	TOKYO ELECTRON LIMITED	347	0	5	352
6	ASML NETHERLANDS B.V.	262	0	0	262
7	NITTO DENKO CORPORATION	248	0	0	248
8	DISCO CORPORATION	214	0	0	214
9	SHIN-ETSU CHEMICAL CO., LTD.	178	6	25	209
10	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	192	0	0	192
11	SCREEN HOLDINGS CO., LTD.	189	1	0	190
12	RESONAC CORPORATION	170	0	7	177
13	FUJIFILM CORPORATION	172	0	0	172
14	CORNING INCORPORATED	161	0	0	161
15	LG CHEM, LTD.	155	0	0	155
16	SHIMANO INC.	143	0	2	145
17	SUMITOMO CHEMICAL CO., LTD.	140	0	0	140
18	SAMSUNG ELECTRO-MECHANICS CO., LTD.	99	26	0	125
19	LINTEC CORPORATION	124	0	0	124
19	NISSAN CHEMICAL CORPORATION	124	0	0	124

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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 2023

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)	195	394	108	10	707	1.33%
Foods & Tobacco	A21-A24	86	151	145	4	386	0.72%
Domestic Articles	A41-A47	310	1,376	316	51	2,053	3.85%
Pharmaceutical & Entertainment	A61-A63 (exclude A61K&A61P,A61Q)	892	1,062	551	58	2,563	4.81%
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	272	42	723	2	1039	1.95%
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	323	97	575	1	996	1.87%
Separation & Mixing	B01-B09	298	353	468	29	1,148	2.15%
Working of Metal	B21-B32 (exclude B31)	743	858	1,269	33	2,903	5.45%
Printing	B41-B44	47	89	72	4	212	0.40%
Transporting	B60-B68	709	1,448	807	87	3,051	5.73%
Micro-structural Technology; Nano-technology	B81-B82	22	1	27	2	52	0.10%
Inorganic Chemistry, Treatment of Waste Water	C01-C05,C30	168	97	616	8	889	1.67%
Organic Chemistry	C07 (exclude C07K \ C07M)	79	2	970	0	1,051	1.97%
Organic Macromolecular Compound	C08	293	10	1,394	1	1,698	3.19%
Dyes, Petroleum, Animal or Vegetable Oils	C09-C11	82	31	1,164	0	1,277	2.40%
Sugar Industries & Pelts/ Leather	C13-C14	1	1	2	0	4	0.01%
Metallurgy, Coating Metallic Material & Alloys	C21-C23,C25 (exclude C22K)	178	73	866	7	1,124	2.11%
Textiles & Flexible Materials	D01-D07	107	112	193	14	426	0.80%
Paper Making & Making Paper Articles	D21,B31	10	13	23	3	49	0.09%

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	342	706	130	15	1,193	2.24%
Mining or Quarrying	E21	8	8	10	0	26	0.05%
Engines and Pumps	F01-F04	139	210	144	22	515	0.97%
Hydraulics or Pneumatics in General	F15-F17	254	543	267	25	1,089	2.04%
Lighting; Heating	F21-F28	410	510	258	39	1,217	2.28%
Weapons; Explosive Charges	F41-F42,C06	33	55	19	3	110	0.21%
Optics	G01-G03 (exclude G01N33)	1,625	626	2,382	86	4,719	8.86%
Measuring	G04-G08 (exclude G06F,G06Q)	785	322	519	7	1,633	3.06%
Semiconductor Applications	G09-G12	686	247	580	4	1,517	2.85%
Nuclear Engineering	G21	2	0	34	0	36	0.07%
Electric Power; Generation, Distribution or Conversion of Electric Power, Electric Heating	H02,H05	1007	707	720	96	2,530	4.75%
Basic Electronic Elements	H01 (exclude H01L)	752	623	1,052	188	2,615	4.91%
Semiconductor Devices	H01L	2,359	270	3,397	42	6,068	11.39%
Basic Electronic Circuitry; Electric Communication Technique	H03,H04	1,190	231	1,607	42	3,070	5.76%
Electric Digital Data Processing	G06F (exclude 17/60)	1,437	470	951	37	2,895	5.43%
E-business	G06F17/60,G06Q	503	1303	293	4	2,103	3.95%
Others		193	66	61	4	324	0.61%
Total		16,540	13,107	22,713	928	53,288	100.00%

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18. Statistics on Valid Patents

Invention & Utility Model

Classification	Invention	Utility Model
A01	2,446	2,237
A21	149	239
A22	31	21
A23	1,633	707
A24	365	57
A41	341	933
A42	113	205
A43	650	704
A44	805	314
A45	442	1,278
A46	94	82
A47	3,014	5,086
A61	15,053	5,133
A62	373	619
A63	2,067	1,928
A99	0	2
B01	3,601	1,187
B02	110	103
B03	91	38
B04	49	23
B05	1,545	485
B06	38	11
B07	122	98
B08	719	246
B09	172	100
B21	991	349
B22	565	93
B23	3,905	1,815
B24	1,837	460
B25	3,271	1,491
B26	416	323
B27	127	126
B28	179	65
B29	3,033	688

Classification	Invention	Utility Model
B30	82	62
B31	68	58
B32	4,191	598
B33	33	6
B41	1,245	306
B42	69	155
B43	164	132
B44	115	139
B60	2,801	2,247
B61	209	50
B62	3,595	2,363
B63	235	175
B64	182	95
B65	4,833	3,989
B66	411	426
B67	115	117
B68	6	9
B81	437	8
B82	378	2
C01	2,371	77
C02	904	435
C03	2,287	86
C04	1,071	29
C05	113	43
C06	9	0
C07	10,540	9
C08	13,564	58
C09	9,864	95
C10	483	33
C11	585	49
C12	2,572	188
C13	12	0
C14	15	2
C21	477	46

Classification	Invention	Utility Model
C22	2,137	25
C23	5,398	186
C25	1,648	247
C30	962	25
C40	16	0
D01	599	92
D02	114	68
D03	227	150
D04	528	205
D05	416	172
D06	887	277
D07	12	7
D21	268	39
D99	1	0
E01	141	168
E02	256	202
E03	350	334
E04	1,229	1,637
E05	984	845
E06	643	932
E21	85	42
F01	304	169
F02	393	221
F03	435	254
F04	1,918	840
F15	174	59
F16	5,458	3,554
F17	185	107
F21	1,401	919
F22	55	16
F23	505	311

Classification	Invention	Utility Model
F24	1,464	1,403
F25	564	234
F26	153	111
F27	234	69
F28	1,006	359
F41	278	347
F42	25	23
G01	15,193	2,185
G02	15,233	1,847
G03	10,273	507
G04	192	80
G05	2,798	266
G06	35,874	9,610
G07	399	272
G08	1,130	656
G09	6,441	792
G10	1,448	277
G11	7,447	233
G12	30	7
G16	549	300
G21	280	6
G99	1	1
H01	73,404	8,058
H02	8,616	1,850
H03	5,535	148
H04	24,246	1,622
H05	10,127	2,841
H10	7	0
H99	1	0
Total	363,060	85,540

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Note: Counts of valid patents are calculated based on existing patents as of December 31, 2023.

Design

Classification	Design
01	199
02	1,646
03	1,109
04	256
05	286
06	1,970
07	2,110
08	2,658
09	3,285
10	1,870
11	1,751
12	6,735
13	4,117
14	6,351
15	3,078
16	1,436
17	64
18	126
19	608
20	204

Classification	Design
21	1,582
22	360
23	3,075
24	1,584
25	865
26	2,903
27	165
28	1,440
29	237
30	190
31	307
32	5
99	6
Total	52,578

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Note: Counts of valid patents are calculated based on existing patents as of December 31, 2023.

19. Statistics on Pending Patent Applications for Examination (2014~2023)

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		
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
2022	52,007	3,669	4,118	7,182	99	-	-	-	238	248	18	369	67,948
2023	52,326	3,814	4,241	6,526	106	-	-	-	205	223	19	314	67,774

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Note: The above statistics exclude the number of applications not requesting substantial examination. (2014:10,734; 2015:9,684; 2016: 10,142; 2017: 9,707; 2018: 7,716; 2019: 9,261; 2020: 8,007; 2021: 8,945; 2022: 8,871; 2023: 9,148).

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
2014	46,379	26,513	57.17%	1,167	2.52%	12,021	25.92%	1,278	2.76%	40,979	88.37%
2015	44,415	24,799	55.83%	1,372	3.09%	12,153	27.36%	1,440	3.24%	39,764	89.52%
2016	43,836	23,321	53.20%	1,462	3.34%	12,788	29.17%	1,724	3.93%	39,295	89.64%
2017	46,122	24,967	54.13%	1,517	3.29%	13,173	28.56%	1,727	3.74%	41,384	89.72%
2018	47,429	27,177	57.30%	1,251	2.64%	12,994	27.40%	1,273	2.68%	42,695	90.02%
2019	48,268	27,736	57.46%	1,284	2.66%	13,335	27.63%	1,121	2.32%	43,476	90.07%
2020	46,664	27,067	58.00%	1,345	2.88%	12,981	27.82%	1,279	2.74%	42,672	91.44%
2021	49,116	27,839	56.68%	1,495	3.04%	2,498	5.09%	1,218	2.48%	33,050	67.29%
2022	50,242	28,008	55.75%	1,093	2.18%	358	0.71%	1,394	2.77%	30,853	61.41%
2023	50,854	27,431	53.94%	611	1.20%	274	0.54%	1,522	2.99%	29,838	58.67%

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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
2014	87	195
2015	113	120
2016	114	133
2017	58	68
2018	95	96
2019	118	86
2020	75	101
2021	69	51
2022	86	112
2023	67	68

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