

Applications

Application by IPR type

(unit: cases)

Category	2018	2019	2020	2021	2022
Patents	209,992	218,975	226,759	237,998	237,633
Utility models	6,232	5,447	4,981	4,009	3,084
Subtotal	216,224	224,422	231,740	242,007	240,717
Designs	62,823 (65,434)	64,111 (66,637)	66,354 (68,695)	63,647 (65,922)	55,333 (57,845)
Trademarks	185,968 (232,109)	204,998 (252,309)	243,935 (290,207)	270,421 (290,209)	242,368 (290,323)
Total	465,015 (513,767)	493,531 (543,368)	542,029 (590,642)	576,075 (598,138)	538,418 (588,885)

Note: Figures in parentheses include multiple applications.

PCT applications (KIPO as the Receiving Office)

(unit: cases)

Category	2018	2019	2020	2021	2022
Number of applications	16,991	18,885	19,675	20,528	21,916
Growth rate	7.6%	11.1%	4.2%	4.3%	6.8%

International trademark applications under the Madrid System

(unit: cases)

Category	2018	2019	2020	2021	2022
Korea as office of origin	1,322	1,419	1,599	2,012	2,089
Korea as designated office	14,373	16,509	13,998	15,400	16,710

International design applications under the Hague System

(unit: cases)

Category	2018	2019	2020	2021	2022
Korea as office of origin	116	178	250	279	280
Korea as designated office	857	928	1,229	1,140	1,308

Comparison of domestic and foreign applications

(unit: cases)

Category			2018	2019	2020	2021	2022
Patents	Domestic	Cases	162,576	171,606	180,484	186,245	183,747
		Ratio	77.40%	78.4%	79.6%	78.3%	77.3%
	Foreign	Cases	47,416	47,396	46,275	51,753	53,886
		Ratio	22.60%	21.6%	20.4%	21.7%	22.7%
	Total		209,992	218,975	226,759	237,998	237,633
Utility models	Domestic	Cases	5,768	4,975	4,595	3,642	2,784
		Ratio	92.60%	91.3%	92.3%	90.8%	90.3%
	Foreign	Cases	464	472	386	367	300
		Ratio	7.40%	8.7%	7.7%	9.2%	9.7%
	Total		6,232	5,447	4,981	4,009	3,084
Designs	Domestic	Cases	58,699 (60,021)	59,877 (61,204)	62,698 (63,939)	59,880 (61,175)	51,428 (52,814)
		Ratio	93.4% (91.7%)	93.3% (91.8%)	94.5% (93.1%)	94.1% (92.8%)	92.9% (91.3%)
	Foreign	Cases	4,124 (5,413)	4,234 (5,433)	3,656 (4,756)	3,767 (4,747)	3,905 (5,031)
		Ratio	6.6% (8.3%)	6.7% (8.2%)	5.5% (6.9%)	5.9% (7.2%)	7.1% (8.7%)
	Total		62,823 (65,434)	64,111 (66,637)	66,354 (68,695)	63,647 (65,922)	55,333 (57,845)
Trademarks	Domestic	Cases	170,545 (207,958)	190,204 (228,530)	230,318 (269,332)	255,746 (269,219)	228,219 (268,334)
		Ratio	91.7% (89.6%)	92.8% (90.6%)	94.4% (92.8%)	94.6% (92.8%)	94.2% (92.4%)
	Foreign	Cases	15,423 (24,151)	14,794 (23,779)	13,617 (20,875)	14,675 (20,990)	14,149 (21,989)
		Ratio	8.3% (10.4%)	7.2% (9.4%)	5.6% (7.2%)	5.4% (7.2%)	5.8% (7.6%)
	Total		185,968 (232,109)	204,998 (252,309)	243,935 (290,207)	270,421 (290,209)	242,368 (290,323)
Total	Domestic	Cases	397,588 (436,323)	426,662 (466,315)	478,095 (518,350)	505,513 (520,281)	466,178 (507,679)
		Ratio	85.5% (84.9%)	86.5% (85.8%)	88.2% (87.8%)	87.8% (87.0%)	86.6% (86.2%)
	Foreign	Cases	67,427 (77,444)	66,869 (77,053)	63,934 (72,292)	70,562 (77,857)	72,240 (81,206)
		Ratio	14.5% (15.1%)	13.5% (14.2%)	11.8% (12.2%)	12.2% (13.0%)	13.4% (13.8%)
	Total		465,015 (513,767)	493,531 (543,368)	542,029 (590,642)	576,075 (598,138)	538,418 (588,885)

Note: Figures in parentheses include multiple applications.

Patent and utility model applications by technological field in 2022

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Electrical machinery, apparatus, energy	14,720	4,053	18,773	142	45	187
Audio-visual technology	5,365	1,939	7,304	60	3	63
Telecommunications	2,572	598	3,170	12	5	17
Digital communication	7,214	3,212	10,426	4	-	4
Basic communication processes	567	334	901	-	-	-
Computer technology	12,863	3,882	16,745	34	7	41
IT methods for management	15,836	473	16,309	27	-	27
Semiconductors	5,012	3,366	8,378	4	11	15
Optics	2,877	2,416	5,293	20	12	32
Measurement	7,998	1,956	9,954	63	13	76
Analysis of biological materials	580	270	850	2	-	2
Control	3,661	521	4,182	39	1	40
Medical technology	10,050	2,441	12,491	139	27	166
Organic fine chemistry	3,773	2,593	6,366	2	-	2
Biotechnology	3,817	3,074	6,891	2	-	2
Pharmaceuticals	3,178	2,646	5,824	-	-	-
Macromolecular chemistry, polymers	1,899	1,885	3,784	-	-	-
Food chemistry	4,516	329	4,845	22	4	26
Basic materials chemistry	2,705	1,565	4,270	8	-	8
Materials, metallurgy	2,906	1,570	4,476	3	2	5
Surface technology, coating	2,329	1,778	4,107	5	3	8
Micro-structural and nano-technology	20	18	38	-	-	-
Chemical engineering	3,300	1,036	4,336	47	8	55
Environmental technology	3,219	395	3,614	45	8	53
Handling	4,555	914	5,469	215	17	232
Machine tools	3,561	1,097	4,658	83	11	94
Engines, pumps, turbines	2,060	733	2,793	32	12	44
Textile and paper machines	1,463	503	1,966	23	2	25
Other special machines	6,422	1,366	7,788	234	1	235
Thermal processes and apparatus	2,784	353	3,137	33	9	42
Mechanical elements	2,368	826	3,194	62	12	74
Transport	9,563	1,442	11,005	133	16	149

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Furniture, games	5,424	630	6,054	485	37	522
Other consumer goods	5,591	1,188	6,779	372	23	395
Civil engineering	7,591	422	8,013	269	7	276
Others	11,388	2,062	13,450	163	4	167
Total	183,747	53,886	237,633	2,784	300	3,084

Note: Figures for 2022 are preliminary.

Patent applications in biotechnology

(unit: cases)

Category	2018		2019		2020		2021		2022	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	7,239	72.2%	7,269	71.0%	7,878	71.0%	8,010	67.2%	7,844	63.8%
Foreign	2,794	27.8%	2,973	29.0%	3,218	29.0%	3,918	32.8%	4,443	36.2%
Total	10,033	100%	10,242	100%	11,096	100%	11,928	100%	12,287	100%

Note1: Figures for 2022 are preliminary.

Note2: Based on the following biotechnological categories of the Eighth Edition of the International Patent Classification: A01H; A01K 67/00-67/04; A01N 63/00-65/00; A61K 8/97-8/99; A61K 8/64-8/68; A61K 35/12-35/76; 36/00-36/9068; A61K 38/00-38/58, 39/00-39/44, 48/00, 51/00-51/10; C02F; C07H 19/00-21/04; C07K; C12C-M; C12N; C12P; C12Q; C12S; G01N 33/50-33/98.

Patent applications in business methods

(unit: cases)

Category	2018		2019		2020		2021		2022	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	9,754	94.8%	10,321	95.1%	12,251	96.5%	15,019	96.4%	15,836	97.1%
Foreign	536	5.2%	534	4.9%	449	3.5%	557	3.6%	473	2.9%
Total	10,290	100%	10,855	100%	12,700	100%	15,576	100%	16,309	100%

Note1: Figures for 2022 are preliminary.

Note2: Based on the Ninth Edition of the International Patent Classification.

Applications by residents of foreign countries/regions in 2022

(unit: cases)

Countries/Regions	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
United States of America	1,676	11,469	1,426 (1,851)	150 (398)	3,668 (6,778)	3,968 (7,486)	22,357 (29,658)
Japan	4,426	10,598	632 (766)	113 (204)	1,445 (2,640)	1,634 (3,416)	18,848 (22,050)
China	738	3,165	891 (1,008)	258 (476)	5,453 (6,247)	2,009 (3,640)	12,514 (15,274)
Germany	743	3,489	69 (77)	139 (447)	184 (376)	1,629 (4,439)	6,253 (9,571)
France	173	1,377	118 (148)	131 (219)	279 (478)	991 (2,359)	3,069 (4,754)
Switzerland	166	1,144	77 (220)	161 (345)	141 (251)	864 (2,142)	2,553 (4,268)
United Kingdom	103	964	79 (109)	34 (77)	507 (1,105)	830 (2,337)	2,517 (4,695)
Taiwan, Province of China	1,149	99	62 (71)	-	432 (584)	-	1,742 (1,903)
Netherlands	104	886	227 (267)	54 (159)	68 (129)	313 (742)	1,652 (2,287)
Italy	65	399	46 (66)	85 (153)	128 (200)	822 (1,603)	1,545 (2,486)
Sweden	76	716	66 (133)	15 (35)	51 (128)	293 (851)	1,217 (1,939)
Canada	58	356	35 (36)	5 (7)	240 (415)	197 (442)	891 (1,314)
Australia	11	216	39 (42)	1 (2)	133 (195)	455 (1,107)	855 (1,573)
Singapore	54	113	12 (40)	6 (29)	378 (672)	210 (483)	773 (1,391)
Belgium	28	296	12 (19)	10 (18)	24 (40)	150 (303)	520 (704)
Austria	88	246	1 (1)	3 (31)	21 (72)	154 (461)	513 (899)
Israel	60	302	4 (4)	15 (34)	20 (26)	107 (229)	508 (655)
Denmark	9	171	45 (74)	22 (49)	36 (70)	206 (501)	489 (874)
Spain	11	120	1 (3)	5 (10)	59 (84)	285 (549)	481 (777)
Cayman Islands	7	386	-	-	35 (118)	4 (5)	432 (516)
Finland	18	231	1 (1)	2 (3)	11 (37)	112 (384)	375 (674)
Luxembourg	8	120	11 (11)	1 (1)	26 (30)	101 (259)	267 (429)
Ireland	33	121	3 (3)	1 (4)	17 (22)	88 (179)	263 (362)
Russian Federation	5	89	3 (3)	11 (15)	9 (9)	126 (299)	243 (420)
Norway	4	114	-	12 (23)	8 (20)	96 (310)	234 (471)
India	12	121	2 (2)	-	49 (64)	41 (112)	225 (311)
Turkiye	4	35	-	6 (11)	10 (15)	164 (318)	219 (383)
New Zealand	7	30	10 (16)	-	40 (62)	103 (193)	190 (308)
Saudi Arabia	-	105	-	-	52 (187)	-	157 (292)
United Arab Emirates	-	5	-	1 (1)	114 (165)	16 (31)	136 (202)
Viet Nam	3	3	4 (4)	2 (7)	43 (51)	65 (147)	120 (215)
Thailand	7	44	2 (2)	-	45 (53)	18 (22)	116 (128)
Poland	7	35	-	8 (9)	2 (2)	61 (135)	113 (188)
Cyprus	2	7	-	-	7 (12)	67 (200)	83 (221)

(unit: cases)

Countries/Regions	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Czech Republic	1	24	-	3 (4)	3 (6)	39 (133)	70 (168)
Malaysia	11	10	1 (1)	-	28 (44)	18 (66)	68 (132)
Barbados	35	15	-	-	9 (24)	4 (42)	63 (116)
Liechtenstein	8	28	-	1 (6)	-	23 (74)	60 (116)
Bulgaria	-	3	3 (3)	1 (1)	1 (1)	50 (88)	58 (96)
Mexico	-	23	1 (1)	-	23 (28)	10 (11)	57 (63)
Virgin Islands (British)	-	4	-	-	43 (55)	10 (19)	57 (78)
Portugal	-	24	2 (2)	1 (1)	6 (6)	23 (42)	56 (75)
Greece	1	34	-	1 (1)	1 (1)	12 (19)	49 (56)
Brazil	-	18	3 (9)	-	11 (19)	13 (20)	45 (66)
Indonesia	1	-	-	-	22 (23)	22 (53)	45 (77)
Chile	2	7	-	-	34 (40)	1 (2)	44 (51)
The Hong Kong Special Administrative Region of the People's Republic of China	1	3	8 (8)	-	27 (43)	-	39 (55)
Malta	-	11	-	-	3 (5)	22 (44)	36 (60)
Antigua and Barbuda	-	28	-	-	1 (6)	1 (5)	30 (39)
Hungary	1	14	-	-	-	15 (26)	30 (41)
Uzbekistan	9	1	2 (2)	-	7 (8)	10 (13)	29 (33)
Morocco	-	-	-	-	-	29 (558)	29 (558)
Lithuania	-	10	-	-	2 (3)	13 (19)	25 (32)
Slovenia	1	2	-	1 (1)	-	17 (62)	21 (66)
Azerbaijan	-	-	-	-	21 (21)	-	21 (21)
South Africa	-	14	-	-	6 (11)	-	20 (25)
Croatia	-	2	-	-	-	18 (31)	20 (33)
Philippines	-	2	-	-	4 (4)	14 (24)	20 (30)
Estonia	-	2	-	-	-	17 (43)	19 (45)
Ukraine	-	2	-	2 (4)	1 (1)	13 (27)	18 (34)
Slovakia	-	8	-	1 (2)	-	7 (10)	16 (20)
Bermuda	-	2	-	-	12 (24)	1 (1)	15 (27)
Panama	-	-	-	2 (7)	10 (27)	3 (15)	15 (49)
Mongolia	1	-	-	1 (1)	8 (14)	4 (6)	14 (22)
Argentina	-	1	-	-	13 (14)	-	14 (15)
Romania	-	2	-	-	5 (30)	6 (7)	13 (39)
Qatar	-	1	-	-	10 (40)	2 (6)	13 (47)

(unit: cases)

Countries/Regions	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Iran (Islamic Republic of)	1	-	-	-	1 (1)	9 (12)	11 (14)
Saint Vincent and the Grenadines	-	-	-	-	11 (11)	-	11 (11)
Belarus	2	-	-	-	-	8 (8)	10 (10)
Andorra	-	1	-	-	-	9 (19)	10 (20)
Costa Rica	1	2	-	-	7 (28)	-	10 (31)
Bahamas	-	-	-	-	9 (12)	1 (1)	10 (13)
Latvia	-	2	-	-	-	7 (15)	9 (17)
Seychelles	-	1	-	-	6 (6)	2 (5)	9 (12)
Kazakhstan	-	1	-	-	1 (1)	7 (19)	9 (21)
Egypt	-	-	-	-	5 (8)	3 (5)	8 (13)
Jersey(U.K.)	-	3	-	-	-	4 (7)	7 (10)
Colombia	-	-	-	-	5 (7)	2 (2)	7 (9)
Samoa	2	1	-	-	3 (3)	-	6 (6)
San Marino	-	1	-	-	-	5 (12)	6 (13)
Iceland	-	1	1 (22)	-	-	4 (12)	6 (35)
Monaco	-	-	-	-	1 (2)	5 (13)	6 (15)
Uruguay	-	-	-	-	1 (1)	5 (6)	6 (7)
Puerto Rico	-	-	-	-	6 (12)	-	6 (12)
Macao	-	1	-	-	4 (4)	-	5 (5)
Cuba	-	2	-	-	3 (3)	-	5 (5)
Mauritius	-	-	1 (1)	-	4 (7)	-	5 (8)
Bahrain	-	2	-	-	2 (2)	-	4 (4)
Bangladesh	1	-	1 (1)	-	2 (2)	-	4 (4)
Jordan	-	2	-	-	2 (4)	-	4 (6)
Kuwait	-	1	-	-	3 (3)	-	4 (4)
Pakistan	1	1	-	-	2 (2)	-	4 (4)
Kyrgyzstan	-	-	1 (1)	-	3 (3)	-	4 (4)
Peru	-	1	1 (1)	-	1 (1)	-	3 (3)
Nigeria	-	-	2 (2)	-	1 (2)	-	3 (4)
Marshall Islands	-	-	-	-	3 (5)	-	3 (5)
Republic of Moldova	-	-	-	-	-	3 (3)	3 (3)
Serbia	-	-	-	-	-	3 (12)	3 (12)
Georgia	-	-	-	-	-	3 (3)	3 (3)
Cook Islands	-	-	-	-	3 (3)	-	3 (3)

(unit: cases)

Countries/Regions	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Nepal	1	-	-	-	1 (1)	-	2 (2)
Libyan Arab Jamahiriya	-	1	-	-	1 (1)	-	2 (2)
Myanmar	2	-	-	-	-	-	2 (2)
Brunei Darussalam	-	1	-	-	-	1 (8)	2 (9)
Saint Kitts and Nevis	-	2	-	-	-	-	2 (2)
Sri Lanka	-	2	-	-	-	-	2 (2)
Guatemala	-	-	-	-	2 (2)	-	2 (2)
Namibia	-	-	-	-	-	2 (2)	2 (2)
Liberia	-	-	-	-	-	2 (6)	2 (6)
Syrian Arab Republic	-	-	-	-	1 (2)	1 (1)	2 (3)
Armenia	-	-	-	-	-	2 (2)	2 (2)
Angola	-	-	-	-	-	2 (2)	2 (2)
Oman	-	-	-	-	-	2 (2)	2 (2)
Gibraltar	-	-	-	-	-	2 (8)	2 (8)
Belize	-	1	-	-	-	-	1 (1)
European Patent Office (EPO)	1	-	-	-	-	-	1 (1)
The former Yugoslav Republic of Macedonia	-	-	-	-	-	1 (1)	1 (1)
Montenegro	-	-	-	-	1 (3)	-	1 (3)
Saint Lucia	-	-	-	-	-	1 (1)	1 (1)
El Salvador	-	-	-	-	1 (1)	-	1 (1)
Kenya	-	-	-	-	-	1 (6)	1 (6)
Curacao	-	-	-	-	-	1 (1)	1 (1)
Trinidad and Tobago	-	-	-	-	-	1 (1)	1 (1)
Palau	-	-	-	-	1 (1)	-	1 (1)
Others	2	-	-	-	6 (10)	-	8 (12)
Total	9,939	37,897	3,905 (5,031)	1,265 (2,795)	14,143 (21,979)	16,695 (37,345)	83,844 (114,986)

Note: Figures in parentheses include multiple applications.

Examinations

Patents and utility models

(unit: cases)

Category		2018	2019	2020	2021	2022	
Patents	Office Action	Approval of registration	9,126	9,637	11,483	12,900	12,851
		Notice of preliminary rejection or amendment	148,772	158,527	170,299	164,312	155,927
		Other notices	1,202	1,613	1,990	1,709	504
		Withdrawal or abandonment	2,190	2,594	2,723	3,055	3,511
		Total	161,290	172,371	186,495	181,976	172,793
	Final Decision	Approval of registration	106,129	115,302	126,228	134,338	125,619
		Rejection or cancellation	55,613	50,944	47,331	46,074	41,538
		Withdrawal abandonment, annulment, or rejection	3,636	3,914	3,997	4,298	5,335
		Total	165,378	170,160	177,556	184,710	172,492
	Utility models	Office Action	Approval of registration	235	225	216	144
Notice of preliminary rejection or amendment			5,258	4,739	4,007	3,192	2,724
Other notices			12	21	14	8	6
Withdrawal or abandonment			113	109	99	97	74
Total			5,618	5,094	4,336	3,441	2,950
Final Decision		Approval of registration	2,619	2,329	1,994	1,801	1,419
		Rejection or cancellation	3,282	2,815	2,254	1,854	1,524
		Withdrawal abandonment, annulment, or rejection	196	217	174	152	118
		Total	6,097	5,361	4,422	3,807	3,061

Designs and trademarks

(unit: cases)

Category			2018	2019	2020	2021	2022
Designs	Office Action	Publication/approval of registration	27,559 (28,708)	31,029 (32,218)	31,232 (32,640)	36,682 (38,470)	34,907 (36,636)
		Notice of preliminary rejection	29,654 (31,962)	29,303 (31,778)	27,068 (29,055)	28,415 (30,537)	26,783 (29,546)
		Other notices	-	-	-	-	-
	Total		57,213 (60,670)	60,332 (63,996)	58,300 (61,695)	65,097 (69,007)	61,690 (66,182)
	Final Decision	Approval of registration	50,161 (52,750)	53,987 (56,989)	51,407 (54,101)	58,103 (61,383)	54,687 (57,883)
		Rejection	7,356 (8,089)	7,343 (8,055)	7,095 (7,776)	7,864 (8,396)	7,743 (8,406)
Total		57,517 (60,839)	61,330 (65,044)	58,502 (61,877)	65,967 (69,779)	62,430 (66,289)	
Trademarks	Office Action	Publication/approval of registration	96,236 (109,983)	98,557 (112,244)	94,942 (108,405)	118,905 (133,969)	133,505 (149,427)
		Notice of preliminary rejection	73,376 (106,978)	77,623 (116,298)	67,433 (99,287)	80,913 (113,232)	88,165 (123,366)
		Other notices	-	-	-	-	-
	Total		169,612 (216,961)	176,180 (228,542)	162,375 (207,692)	199,818 (247,201)	221,670 (272,793)
	Final Decision	Approval of registration	133,359 (168,237)	145,794 (187,392)	133,882 (173,499)	162,874 (201,381)	167,261 (204,848)
		Rejection	29,873 (36,697)	32,014 (41,658)	28,219 (37,267)	31,697 (39,962)	31,000 (38,996)
Total		163,232 (204,934)	177,808 (229,050)	162,101 (210,766)	194,571 (241,343)	198,261 (243,844)	

Note: Figures in parentheses include multiple applications.

Average first office action pendency

(unit: months)

Category	2018	2019	2020	2021	2022
Patents / Utility models	10.3	10.8	11.1	12.2	14.4
Trademarks	5.5	6.8	8.9	10.8	13.9
Designs	4.9	5.4	4.6	5.2	4.8

Average total pendency

(unit: months)

Category	2018	2019	2020	2021	2022
Patents / Utility models	15.8	15.6	15.8	16.0	18.4
Trademarks	10.4	11.1	13.2	14.7	17.7
Designs	6.3	6.9	6.2	6.4	6.0

PCT international search reports and preliminary examinations undertaken by KIPO

(unit: cases)

Category	2018	2019	2020	2021	2022
International Search Reports	24,123	27,167	28,547	28,359	29,935
International Preliminary Examinations	131	131	100	124	105

Note: Based on KIPO data

Registrations

Registrations by IPR type

(unit: cases)

Category	2018	2019	2020	2021	2022
Patents	119,014	125,661	134,766	145,882	135,180
Utility models	2,715	2,417	2,056	1,817	1,452
Subtotal	121,729	128,078	136,822	147,699	136,632
Designs	49,905	52,850	50,694	57,545	54,775
Trademarks	115,025	125,594	116,153	136,629	135,333
Total	286,659	306,522	303,669	341,873	326,740

Note: Trademark registration renewals are excluded.

Comparison of domestic and foreign registrations

(unit: cases)

Category			2018	2019	2020	2021	2022
Patents	Domestic	Cases	89,229	94,852	103,881	110,351	99,202
		Ratio	75.0%	75.5%	77.1%	75.6%	73.4%
	Foreign	Cases	29,785	30,809	30,885	35,531	35,978
		Ratio	25.0%	24.5%	22.9%	24.4%	26.6%
	Total		119,014	125,661	134,766	145,882	135,180
Utility models	Domestic	Cases	2,521	2,238	1,842	1,618	1,288
		Ratio	92.9%	92.6%	89.6%	89.0%	88.7%
	Foreign	Cases	194	179	214	199	164
		Ratio	7.1%	7.4%	10.4%	11.0%	11.3%
	Total		2,715	2,417	2,056	1,817	1,452
Designs	Domestic	Cases	44,150	46,011	45,169	50,878	47,518
		Ratio	88.5%	87.1%	89.1%	88.4%	86.8%
	Foreign	Cases	5,755	6,839	5,525	6,667	7,257
		Ratio	11.5%	12.9%	10.9%	11.6%	13.2%
	Total		49,905	52,850	50,694	57,545	54,775

(unit: cases)

Category			2018	2019	2020	2021	2022
Trademarks	Domestic	Cases	94,532	102,333	94,892	116,997	115,442
		Ratio	82.2%	81.5%	81.7%	85.6%	85.3%
	Foreign	Cases	20,493	23,261	21,261	19,632	19,891
		Ratio	17.8%	18.5%	18.3%	14.4%	14.7%
	Total		115,025	125,594	116,153	136,629	135,333
Total	Domestic	Cases	230,432	245,434	245,784	279,844	263,450
		Ratio	80.4%	80.1%	80.9%	81.9%	80.6%
	Foreign	Cases	56,227	61,088	57,885	62,029	63,290
		Ratio	19.6%	19.9%	19.1%	18.1%	19.4%
	Total		286,659	306,522	303,669	341,873	326,740

Patent and utility model registrations by technological field in 2022

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Electrical machinery, apparatus, energy	7,343	2,401	9,744	74	18	92
Audio-visual technology	4,241	1,194	5,435	39	3	42
Telecommunications	1,827	507	2,334	14	8	22
Digital communication	3,637	2,123	5,760	1	-	1
Basic communication processes	408	289	697	-	-	-
Computer technology	7,084	2,549	9,633	7	9	16
IT methods for management	5,892	300	6,192	2	-	2
Semiconductors	5,286	4,340	9,626	3	9	12
Optics	2,471	1,713	4,184	8	4	12

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Measurement	4,180	1,198	5,378	18	5	23
Analysis of biological materials	365	194	559	2	-	2
Control	2,316	361	2,677	28	-	28
Medical technology	5,610	1,581	7,191	52	28	80
Organic fine chemistry	1,972	1,485	3,457	-	1	1
Biotechnology	1,392	1,092	2,484	2	-	2
Pharmaceuticals	1,150	930	2,080	1	-	1
Macromolecular chemistry, polymers	1,042	1,442	2,484	-	-	-
Food chemistry	2,011	114	2,125	4	-	4
Basic materials chemistry	1818	1402	3220	3	-	3
Materials, metallurgy	1,749	1,164	2,913	-	-	-
Surface technology, coating	1,304	1,309	2,613	15	1	16
Micro-structural and nano-technology	17	21	38	-	-	-
Chemical engineering	2,214	700	2,914	23	6	29
Environmental technology	1,957	267	2,224	24	1	25
Handling	2,519	669	3,188	98	8	106
Machine tools	2,211	843	3,054	54	4	58
Engines, pumps, turbines	1,489	626	2,115	15	3	18
Textile and paper machines	913	504	1,417	6	-	6
Other special machines	3,991	1,218	5,209	116	3	119
Thermal processes and apparatus	2,132	280	2,412	37	8	45
Mechanical elements	1,579	680	2,259	51	7	58
Transport	5,535	968	6,503	80	4	84
Furniture, games	3,068	471	3,539	206	17	223
Other consumer goods	3,128	707	3,835	173	13	186
Civil engineering	5,351	336	5,687	132	4	136
Total	99,202	35,978	135,180	1,288	164	1,452

Note: Figures for 2022 are preliminary.

Patent registrations in biotechnology

(unit: cases)

Category	2018		2019		2020		2021		2022	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	4,524	79.3%	4,534	78.4%	4,969	79.0%	4,913	76.4%	3,481	67.9%
Foreign	1,149	20.3%	1,249	21.6%	1,321	21.0%	1,514	23.6%	1,643	32.1%
Total	5,673	100%	5,783	100%	6,290	100%	6,427	100%	5,124	100%

Note1: Figures for 2022 are preliminary.

Note2: Based on the following biotechnological categories of the Eighth Edition of the International Patent Classification: A01H; A01K 67/00-67/04; A01N 63/00-65/00; A61K 8/97-8/99; A61K 8/64-8/68; A61K 35/12-35/76; 36/00-36/9068; A61K 38/00-38/58, 39/00-39/44, 48/00, 51/00-51/10; C02F; C07H 19/00-21/04; C07K; C12C-M; C12N; C12P; C12Q; C12S; G01N 33/50-33/98.

Patent registrations in business methods

(unit: cases)

Category	2018		2019		2020		2021		2022	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	3,560	93.1%	3,500	93.6%	4,581	94.3%	5,898	94.9%	5,892	95.2%
Foreign	262	6.9%	241	6.4%	277	5.7%	316	5.1%	300	4.8%
Total	3,822	100%	3,741	100%	4,858	100%	6,214	100%	6,192	100%

Note1: Figures for 2022 are preliminary.

Note2: Based on the Ninth Edition of the International Patent Classification.

Registrations by resident of foreign countries/regions in 2022

(unit: cases)

Countries/Regions	Patents & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
United States of America	9,473	1,114	1,464	401	2,272 (3,784)	2,389 (4,355)	17,113 (20,591)
Japan	10,308	1,315	932	285	918 (1,508)	1,263 (2,816)	15,021 (17,164)
China	2,852	294	1,187	217	3,341 (3,901)	1,556 (2,621)	9,447 (11,072)
Germany	2,425	289	70	451	121 (213)	1,227 (3,279)	4,583 (6,727)
Switzerland	844	97	173	356	149 (219)	594 (1,449)	2,213 (3,138)
France	977	119	138	208	163 (244)	605 (1,436)	2,210 (3,122)
United Kingdom	722	101	85	26	263 (464)	505 (1,396)	1,702 (2,794)

(unit: cases)

Countries/Regions	Patents & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Netherlands	701	82	204	192	37 (55)	201 (404)	1,417 (1,638)
Taiwan, Province of China	864	104	69	-	233 (340)	-	1,270 (1,377)
Italy	352	31	35	152	98 (173)	574 (1,142)	1,242 (1,885)
Sweden	493	65	56	37	36 (73)	229 (611)	916 (1,335)
Canada	226	31	58	13	164 (297)	121 (236)	613 (861)
Australia	107	9	36	-	82 (108)	282 (596)	516 (856)
Singapore	161	25	11	8	121 (182)	150 (322)	476 (709)
Denmark	121	24	49	40	17 (31)	152 (389)	403 (654)
Spain	89	7	15	9	54 (71)	207 (362)	381 (553)
Austria	212	31	1	20	12 (42)	99 (246)	375 (552)
Israel	193	28	21	21	25 (34)	70 (118)	358 (415)
Belgium	160	26	3	13	19 (51)	112 (275)	333 (528)
Finland	162	15	4	3	21 (73)	121 (366)	326 (623)
Luxembourg	122	18	8	1	34 (52)	48 (111)	231 (312)
Norway	84	10	7	24	6 (22)	56 (137)	187 (284)
Ireland	81	13	11	2	15 (35)	52 (82)	174 (224)
Russian Federation	40	3	5	9	17 (17)	93 (254)	167 (328)
New Zealand	19	3	26	-	15 (31)	64 (116)	127 (195)
Cayman Islands	77	15	-	-	29 (88)	5 (10)	126 (190)
India	59	11	2	-	30 (33)	23 (38)	125 (143)
Turkiye	23	7	2	4	18 (23)	57 (103)	111 (162)
Thailand	25	-	6	-	25 (37)	13 (16)	69 (84)
Viet Nam	1	-	4	-	29 (44)	33 (87)	67 (136)
Poland	18	2	-	5	9 (14)	33 (74)	67 (113)
Saudi Arabia	48	3	-	-	7 (14)	-	58 (65)
Czech Republic	15	-	-	17	1 (5)	22 (73)	55 (110)
Cyprus	9	-	-	5	9 (12)	27 (71)	50 (97)
Barbados	28	1	3	-	2 (3)	13 (24)	47 (59)
Malaysia	13	-	2	-	16 (20)	16 (22)	47 (57)
Liechtenstein	10	1	-	17	1 (1)	15 (42)	44 (71)
United Arab Emirates	3	-	-	1	34 (53)	2 (3)	40 (60)
Chile	6	-	2	-	20 (22)	4 (5)	32 (35)
Portugal	8	1	-	-	2 (2)	21 (34)	32 (45)

(unit: cases)

Countries/Regions	Patents & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Mexico	6	-	-	-	21 (37)	5 (5)	32 (48)
Hungary	7	2	2	-	2 (2)	16 (36)	29 (49)
Bulgaria	1	-	-	-	10 (10)	18 (29)	29 (40)
Brazil	10	2	1	-	7 (7)	4 (4)	24 (24)
Greece	11	2	-	1	1 (6)	8 (17)	23 (37)
Virgin Islands (British)	-	-	-	-	11 (11)	11 (16)	22 (27)
Malta	6	-	-	-	3 (3)	11 (37)	20 (46)
Indonesia	1	-	-	-	10 (10)	9 (14)	20 (25)
Slovenia	6	1	-	4	-	7 (15)	18 (26)
South Africa	11	-	1	-	5 (5)	-	17 (17)
Lithuania	2	-	-	-	2 (7)	13 (31)	17 (40)
Ukraine	1	-	-	5	1 (1)	9 (19)	16 (26)
Philippines	1	-	-	-	4 (4)	10 (17)	15 (22)
The Hong Kong Special Administrative Region of the People's Republic of China	1	-	-	-	13 (42)	-	14 (43)
Estonia	2	-	-	-	-	12 (25)	14 (27)
Antigua and Barbuda	12	-	-	-	-	-	12 (12)
Croatia	1	-	-	7	-	4 (6)	12 (14)
Belarus	2	-	-	-	-	9 (15)	11 (17)
Latvia	-	-	-	1	-	8 (13)	9 (14)
Argentina	-	-	-	-	9 (9)	-	9 (9)
Mauritius	-	-	-	-	7 (8)	1 (1)	8 (9)
Slovakia	3	-	-	2	-	3 (7)	8 (12)
Seychelles	1	-	-	-	6 (6)	1 (1)	8 (8)
Iceland	-	-	-	-	-	8 (24)	8 (24)
Uzbekistan	-	1	2	-	2 (2)	2 (4)	7 (9)
Morocco	1	-	-	-	-	6 (12)	7 (13)
Monaco	1	-	-	-	2 (2)	4 (27)	7 (30)
Colombia	-	-	-	-	6 (10)	1 (2)	7 (12)
Sri Lanka	3	-	-	-	2 (2)	-	5 (5)
Qatar	-	-	-	-	2 (7)	3 (14)	5 (21)
Bermuda	-	2	-	-	3 (3)	-	5 (5)
Panama	-	-	-	-	5 (5)	-	5 (5)
Romania	2	-	-	-	-	2 (8)	4 (10)
Iran (Islamic Republic of)	-	-	-	-	3 (4)	1 (3)	4 (7)
Serbia	1	1	-	-	-	2 (2)	4 (4)
Uruguay	-	-	-	-	3 (3)	1 (1)	4 (4)
Kazakhstan	-	-	-	-	4 (4)	-	4 (4)

(unit: cases)

Countries/Regions	Patents & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Costa Rica	2	1	-	-	1 (1)	-	4 (4)
Mongolia	1	-	-	-	3 (3)	-	4 (4)
Armenia	-	-	-	-	2 (2)	1 (1)	3 (3)
Peru	-	-	-	-	3 (3)	-	3 (3)
Pakistan	-	-	-	-	3 (3)	-	3 (3)
Kuwait	-	-	-	-	2 (3)	1 (1)	3 (4)
Cuba	2	-	-	-	-	1 (1)	3 (3)
Bahamas	-	-	-	-	3 (3)	-	3 (3)
Ghana	-	-	2	-	-	-	2 (2)
Guernsey	-	-	-	-	-	2 (4)	2 (4)
Syrian Arab Republic	1	-	-	-	-	1 (1)	2 (2)
Georgia	-	-	-	-	-	2 (2)	2 (2)
Tajikistan	-	-	-	-	2 (3)	-	2 (3)
Lebanon	-	-	-	-	2 (4)	-	2 (4)
Gibraltar	-	-	-	-	-	2 (6)	2 (6)
Guatemala	-	-	1	-	-	-	1 (1)
Kyrgyzstan	-	-	1	-	-	-	1 (1)
Jersey(U.K.)	1	-	-	-	-	-	1 (1)
Puerto Rico	-	-	-	-	1 (5)	1 (2)	2 (7)
Isle of Man	-	-	-	-	-	1 (6)	1 (6)
Egypt	1	-	-	-	-	-	1 (1)
Bahrain	1	-	-	-	-	-	1 (1)
Tunisia	-	-	-	-	-	1 (1)	1 (1)
Zimbabwe	-	-	-	-	1 (1)	-	1 (1)
San Marino	-	-	-	-	-	1 (1)	1 (1)
Belize	1	-	-	-	-	-	1 (1)
Marshall Islands	-	-	-	-	-	1 (6)	1 (6)
Others	-	1	1	-	-	1 (1)	3 (3)
Total	32,234	3,908	4,700	2,557	8,632 (12,632)	11,259 (24,159)	63,290 (80,190)

Note: Figures in parentheses include multiple applications

Trials and Appeals

Requests for trial and appeal

(unit: cases)

Category		2018	2019	2020	2021	2022
Appeal against examiner's decision to reject application	Patents	3,624	2,820	2,110	2,196 (2,196)	1,589 (1,589)
	Utility models	162	128	59	33 (33)	28 (28)
	Designs	102	58	50	49 (49)	41 (41)
	Trademarks	1,437 (2,046)	1,330 (1,868)	1,021 (1,615)	1,104 (1,724)	748 (1,115)
	Subtotal	5,325 (5,934)	4,336 (4,874)	3,240 (3,834)	3,382 (4,002)	2,406 (2,773)
Appeals against examiner's decision to dismiss amendment	Patents	1	-	-	-	-
	Utility models	-	-	-	-	-
	Designs	-	-	-	1 (1)	-
	Trademarks	-	3	-	1 (1)	1 (1)
	Subtotal	1	3	-	2 (2)	1 (1)
Appeals against examiner's decision of cancellation	Patents	-	-	-	-	-
	Utility models	-	-	-	-	-
	Designs	1	3	3	3 (3)	1 (1)
	Trademarks	-	-	-	-	-
	Subtotal	1	3	3	3 (3)	1 (1)
Trials for correction	Patents	128	127	119	150 (150)	109 (109)
	Utility models	-	2	3	4 (4)	-
	Designs	-	-	-	-	-
	Trademarks	-	-	-	-	-
	Subtotal	128	129	122	154 (154)	109 (109)
Invalidation	Patents	460	478	383	408 (408)	374 (374)
	Utility models	21	15	20	12 (12)	11 (11)
	Designs	207	215	188	152 (152)	160 (160)
	Trademarks	472 (559)	472 (541)	372 (433)	291 (342)	264 (323)
	Subtotal	1,160 (1,247)	1,180 (1,249)	963 (1,024)	863 (914)	809 (868)

(unit: cases)

Category		2018	2019	2020	2021	2022
Trials to confirm scope of IP right	Patents	512	348	374	445 (445)	300 (300)
	Utility models	20	21	17	11 (11)	14 (14)
	Designs	151	136	169	155 (155)	142 (142)
	Trademarks	158 (175)	103 (123)	108 (129)	112 (123)	88 (104)
	Subtotal	841 (858)	608 (628)	668 (689)	723 (734)	544 (560)
Cancellation trials on trademark registration	Patents	1	-	-	-	-
	Utility models	-	-	-	-	-
	Designs	17	-	-	-	-
	Trademarks	2,523 (3,011)	2,574 (3,193)	2,497 (3,003)	2,395 (2,827)	2,411 (2,802)
	Subtotal	2,541 (3,029)	2,574 (3,193)	2,497 (3,003)	2,395 (2,827)	2,411 (2,802)
Opposition of patent/ utility model	Patents	150	174	146	154 (154)	149 (149)
	Utility models	4	1	9	6 (6)	2 (2)
	Designs	-	-	-	-	-
	Trademarks	-	-	-	-	-
	Subtotal	154	175	155	160 (160)	151 (151)
Grand total	Patents	4,876	3,947	3,132	3,353 (3,353)	2,521 (2,521)
	Utility models	207	167	108	66 (66)	55 (55)
	Designs	478	412	410	360 (360)	344 (344)
	Trademarks	4,590 (5,791)	4,482 (5,728)	3,998 (5,180)	3,903 (5,017)	3,512 (4,345)
	Grand total	10,151 (11,352)	9,008 (10,254)	7,648 (8,830)	7,682 (8,796)	6,432 (7,265)

Note1: Figures in parentheses include multiple applications.

Note2: Opposition of patents / Utility model has been enforced from March, 2017

* Rejection refers to appeals against examiners' decisions of refusal and appeals against examiners' decisions to dismiss utility models.

** Invalidation refers to invalidation trials and trials for invalidation of corrections.

Successful petitions

(unit: cases)

Category		2018		2019		2020		2021		2022	
		Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio
Ex partes	Patents	1,370	31.1%	1,977	36.3	1,341	39.9	1,008	36.8	747	33.2
	Utility models	40	20.5%	48	24.2	45	24.9	16	28.1	11	29.7
	Designs	21	20.6%	27	32.5	20	40.8	8	26.7	27	33.8
	Trademarks	1,026 (1,648)	58.3% (63.1%)	1,017 (1,607)	55.2 (60.4)	693 (1,063)	55.9 (60.4)	536 (884)	57.0 (61.0)	456 (733)	56.0 (56.9)
	Subtotal	2,457 (3,079)	38.0% (42.1%)	3,069 (3,659)	40.5 (43.6)	2,099 (2,469)	43.4 (46.1)	1,568 (1,916)	41.6 (44.8)	1,241 (1,518)	39.0 (41.5)
Inter partes	Patents	552	49.1%	653	53.4	382	42.8	361	47.5	382	52.0
	Utility models	19	35.2%	16	35.6	8	24.2	13	37.1	10	45.5
	Designs	210	51.0%	142	48.3	140	53.8	141	46.2	154	46.7
	Trademarks	1,747 (1,962)	70.1% (70.2%)	2,753 (3,173)	74.0 (73.6)	1,877 (2,351)	70.6 (72.4)	2,268 (2,627)	78.8 (79.1)	1,792 (2,030)	77.7 (77.4)
	Subtotal	2,528 (2,743)	61.9 (62.6%)	3,564 (3,984)	67.5 (67.8)	2,407 (2,881)	62.6 (65.0)	2,783 (3,142)	69.9 (71.1)	2,338 (2,576)	68.9 (69.5)
Grand total	Patents	1,922	34.7%	2,630	39.4	1,723	40.5	1,369	39.1	1,129	37.8
	Utility models	59	23.7%	64	26.3	53	24.8	29	31.5	21	35.6
	Designs	231	44.9%	169	44.8	160	51.8	149	44.5	181	44.1
	Trademarks	2,773 (3,610)	65.2% (66.8%)	3,770 (4,780)	67.8 (68.5)	2,570 (3,414)	65.9 (68.2)	2,804 (3,511)	73.4 (73.6)	2,248 (2,763)	72.0 (70.6)
	Total	4,985 (5,822)	47.3% (49.8%)	6,633 (7,643)	51.6 (53.6)	4,506 (5,350)	51.9 (54.7)	4,351 (5,058)	56.2 (58.1)	3,579 (4,094)	54.4 (55.6)

Note1: Figures in parentheses include multiple applications.

Note2: The successful petitions refer to the number of petitions granted. These figures exclude cases where the registration was decided on the basis of an examiner's reconsideration before a trial and invalidation of a patent process. The figures in parentheses indicate the percentage of the petitions granted.

· Ex partes: Appeals against examiners' decisions of refusal / Appeals against examiners' decisions of cancellation / Appeals against examiners' decisions to dismiss amendments / Trials for correction

· Inter partes: Invalidation trials / Trials to confirm scope of IP rights / Trials for invalidation of correction / Trials for granting non-exclusive licenses / Trials for invalidation of registrations for extension of patent right term / Trials for invalidation of registration for renewals of trademark right term / Cancellation trials on trademark registrations / Cancellation trials on registrations of exclusive or non-exclusive licenses / Trials for invalidation on registrations for conversion of classification of goods

Comparison of domestic and foreign trial requests

(unit: cases)

Category		2018	2019	2020	2021	2022
Patents	Domestic	3,214	2,545	2,064	2,293	888
	Foreign	1,662	1,402	1,068	1,060	1,060
Utility models	Domestic	201	164	102	63	51
	Foreign	6	3	6	3	4
Designs	Domestic	419	381	386	337	323
	Foreign	59	31	24	23	21
Trademarks	Domestic	3,077	2,939	2,780	2,726	2,512
	Foreign	1,513	1,543	1,218	1,177	1,000
Total		10,151	9,008	7,648	7,682	6,432

Note: Multiple applications for trademarks and designs are treated as single applications.

Income and Expenditures / KIPO Staff

Income

(unit: USD)

Category	2018	2019	2020	2021	2022
Income from fees	446,163,758	443,443,731	484,871,681	533,627,760	471,906,646
Income carried over from the previous year	42,855,898	17,542,755	9,997,345	48,094,637	78,923,259
Internal income and others	148,403,121	115,788,238	109,041,593	70,221,721	116,525,316
Total	637,422,777	576,774,723	603,910,619	651,945,020	667,356,804

Expenditures

(unit: USD)

Category	2018	2019	2020	2021	2022
Non-personnel resources (projects)	455,687,588	413,003,996	400,492,035	426,200,090	477,916,930
Personnel resources	116,102,191	116,951,668	122,678,761	130,149,617	119,738,924
Deposit for special fund	47,461,470	37,046,713	33,516,814	5,680,937	23,734,177
Total	619,251,249	567,002,377	556,687,611	562,030,644	621,390,823

KIPO staff

(unit: number of positions)

Category	2018	2019	2020	2021	2022	
Examiners	Patents and utility models	875	839	830	861	902
	Designs and trademarks	162	191	198	194	209
Administrative judges	107	107	107	107	107	
Administrative staff	517	604	632	649	586	
Total	1,661	1,741	1,767	1,811	1,804	

Academic and professional credentials of KIPO examiners

(unit: number of staff)

Category	Ph. D	Master's degrees	Patent attorney certificate only	Lawyer certificate only	Professional engineer certificate only
Examiners	Patents and utility models	282	142	29	17
	Trademarks	7	10	8	0
	Designs	5	11	0	0
	Total	294	163	37	5