

IP Statistics

Applications

Application by IPR type

(unit: cases)

Category	2014	2015	2016	2017	2018
Patents	210,292	213,694	208,830	204,775	209,992
Utility models	9,184	8,711	7,767	6,811	6,232
Subtotal	219,476	222,405	216,597	211,586	216,224
Designs	64,345 (67,586)	67,954 (70,190)	64,678 (66,728)	62,528 (64,986)	62,823 (65,434)
Trademarks	150,226 (183,815)	185,443 (239,334)	170,347 (204,012)	168,556 (202,539)	185,968 (232,109)
Total	434,047 (470,877)	475,802 (533,929)	451,622 (696,167)	442,670 (485,922)	465,015 (513,767)

Note: Figures in parentheses include multiple applications.

PCT applications

(unit: cases)

Category	2014	2015	2016	2017	2018
Number of applications	13,138	14,594	15,595	15,790	16,991
Growth rate	5.6%	11.1%	6.8%	1.2%	7.6%

International trademark applications under the Madrid System

(unit: cases)

Category	2014	2015	2016	2017	2018
Korea as office of origin	706	990	942	1,053	1,322
Korea as designated office	10,437	12,931	11,259	14,362	14,373

International design applications under the Hague System

(unit: cases)

Category	2015	2016	2017	2018
Korea as office of origin	153	104	133	116
Korea as designated office	628	981	925	857

Comparison of domestic and foreign applications

(unit: cases)

Category			2014	2015	2016	2017	2018
Patents	Domestic	Cases	164,073	167,273	163,424	159,095	162,576
		Ratio	78.0%	78.3%	78.3%	77.7%	77.40%
	Foreign	Cases	46,223	46,421	45,406	45,680	47,416
		Ratio	22.0%	21.7%	21.7%	22.3%	22.60%
	Total		210,292	213,694	208,830	204,775	209,992
Utility models	Domestic	Cases	8,754	8,294	7,395	6,448	5,768
		Ratio	95.3%	95.2%	95.2%	94.7%	92.60%
	Foreign	Cases	430	417	372	363	464
		Ratio	4.7%	4.8%	4.8%	5.3%	7.40%
	Total		9,184	8,711	7,767	6,811	6,232
Designs	Domestic	Cases	65,485 (60,795)	64,081 (65,895)	61,491 (62,618)	59,085 (60,379)	58,699 (60,021)
		Ratio	93.5% (94.5%)	94.3% (91.3%)	95.1% (93.8%)	94.5% (92.9%)	93.4% (91.7%)
	Foreign	Cases	4,569 (3,550)	3,873 (6,295)	3,187 (4,110)	3,443 (4,607)	4,124 (5,413)
		Ratio	6.5% (5.5%)	5.7% (8.7%)	4.9% (6.2%)	5.5% (7.1%)	6.6% (8.3%)
	Total		70,054 (64,345)	67,954 (72,190)	64,678 (66,728)	62,528 (64,986)	62,823 (65,434)
Trademarks	Domestic	Cases	158,058 (138,045)	160,033 (191,485)	157,107 (183,612)	155,674 (181,229)	170,545 (207,958)
		Ratio	89.0% (85.9%)	86.3% (80.0%)	92.2% (90.0%)	92.4% (89.5%)	91.7% (89.6%)
	Foreign	Cases	22,618 (41,624)	25,410 (47,849)	13,240 (20,400)	12,882 (21,310)	15,423 (24,151)
		Ratio	14.1% (20.2%)	13.7% (20.0%)	7.8% (10.0%)	7.6% (10.5%)	8.3% (10.4%)
	Total		160,663 (205,859)	185,443 (239,334)	170,347 (204,012)	168,556 (202,539)	185,968 (232,109)
Total	Domestic	Cases	371,667 (227,311)	399,681 (257,380)	389,417 (417,049)	380,302 (407,151)	397,588 (436,323)
		Ratio	83.6% (46.1%)	84.0% (48.2%)	86.2% (85.6%)	85.9% (85.0%)	85.5% (84.9%)
	Foreign	Cases	72,817 (46,134)	76,121 (54,144)	62,205 (70,288)	62,368 (71,960)	67,427 (77,444)
		Ratio	16.4% (9.4%)	16.0% (10.1%)	13.8% (14.4%)	14.1% (15.0%)	14.5% (15.1%)
	Total		444,484 (492,921)	475,802 (533,929)	451,622 (487,337)	442,670 (479,111)	465,015 (513,767)

Note: Figures in parentheses include multiple applications.

Patent and utility model applications by technological field in 2018

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Electrical machinery, apparatus, energy	12,241	3,284	15,525	368	54	422
Audio-visual technology	4,981	1,276	6,257	122	13	135
Telecommunications	2,523	552	3,075	49	-	49
Digital communication	5,994	2,274	8,268	3	-	3
Basic communication processes	522	324	846	-	-	-
Computer technology	8,796	2,494	11,290	67	10	77
IT methods for management	9,754	536	10,290	30	1	31
Semiconductors	6,908	4,165	11,073	10	35	45
Optics	3,105	2,059	5,164	56	10	66
Measurement	6,282	1,568	7,850	118	9	127
Analysis of biological materials	562	209	771	1	-	1
Control	3,666	466	4,132	94	1	95
Medical technology	7,513	1,949	9,462	317	28	345
Organic fine chemistry	3,412	2,236	5,648	2	-	2
Biotechnology	2,959	1,729	4,688	1	-	1
Pharmaceuticals	3,005	1,918	4,923	4	-	4
Macromolecular chemistry, polymers	1,794	1,799	3,593	2	-	2
Food chemistry	3,796	261	4,057	31	3	34
Basic materials chemistry	2,999	1,824	4,823	19	2	21
Materials, metallurgy	3,028	1,385	4,413	13	3	16
Surface technology, coating	2,423	1,702	4,125	19	8	27
Micro-structural and nano-technology	29	40	69	-	-	-
Chemical engineering	3,291	906	4,197	86	10	96
Environmental technology	3,147	511	3,658	96	4	100
Handling	3,887	925	4,812	380	24	404
Machine tools	3,526	1,018	4,544	145	12	157
Engines, pumps, turbines	2,682	1,212	3,894	57	15	72
Textile and paper machines	1,598	635	2,233	31	3	34
Other special machines	6,307	1,616	7,923	420	11	431
Thermal processes and apparatus	3,252	402	3,654	150	9	159
Mechanical elements	2,951	1,132	4,083	143	35	178
Transport	8,687	1,428	10,115	338	15	353

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Furniture, games	5,559	548	6,107	853	51	904
Other consumer goods	5,794	1,085	6,879	794	56	850
Civil engineering	8,519	478	8,997	572	11	583
Others	7,084	1,470	8,554	377	31	408
Total	162,576	47,416	209,992	5,768	464	6,232

Note: Figures for 2018 are preliminary.

Patent applications in biotechnology

(unit: cases)

Category	2014		2015		2016		2017		2018	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	5,091	73.3%	5,601	74.0%	6,700	75.1%	7,328	74.9%	7,239	72.2%
Foreign	1,856	26.7%	1,972	26.0%	2,222	24.9%	2,462	25.1%	2,794	27.8%
Total	6,947	100%	7,572	100%	8,922	100%	9,790	100%	10,033	100%

Note1: Figures for 2018 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	2014		2015		2016		2017		2018	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	6,813	93.5%	8,621	94.4%	9,381	94.7%	8,852	95.2%	9,754	94.8%
Foreign	476	6.5%	510	5.6%	522	5.3%	446	4.8%	536	5.2%
Total	7,289	100%	9,131	100%	9,903	100%	9,298	100%	10,290	100%

Note1: Figures for 2018 are preliminary.

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

Applications by residents of foreign countries in 2018

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
United States of America	1,582	11,453	1,287 (1,828)	109 (321)	3,915 (6,705)	2,945 (5,161)	21,291 (27,050)
Japan	5,057	10,571	1,044 (1,278)	116 (236)	2,373 (4,062)	1,463 (3,114)	20,624 (24,318)
China	743	2,606	781 (921)	17 (44)	4,735 (6,069)	1,642 (2,558)	10,524 (12,941)
Germany	811	3,580	155 (204)	115 (502)	233 (446)	1,908 (5,093)	6,802 (10,636)
France	191	1,510	117 (126)	124 (248)	333 (467)	1,043 (2,327)	3,318 (4,869)
Switzerland	143	1,147	145 (179)	78 (260)	387 (646)	741 (1,744)	2,641 (4,119)
United Kingdom	112	1,123	85 (127)	28 (68)	580 (1,113)	635 (1,661)	2,563 (4,204)
Taiwan, Province of China	1,112	79	71 (72)	1 (1)	488 (613)	-	1,751 (1,877)
Italy	68	454	45 (73)	63 (118)	141 (226)	844 (1,729)	1,615 (2,668)
Netherlands	94	884	95 (99)	54 (136)	48 (80)	265 (761)	1,440 (2,054)
Sweden	72	643	42 (81)	27 (59)	57 (123)	230 (665)	1,071 (1,643)
Canada	74	344	28 (82)	1 (1)	425 (670)	21 (44)	893 (1,215)
Australia	10	190	45 (50)	1 (1)	141 (194)	415 (868)	802 (1,313)
Singapore	46	111	10 (37)	6 (13)	217 (315)	162 (356)	552 (878)
Austria	53	258	1 (12)	10 (24)	41 (304)	138 (389)	501 (1,040)
Spain	16	147	6 (6)	4 (7)	60 (70)	267 (498)	500 (744)
Belgium	19	298	9 (23)	7 (22)	28 (38)	132 (269)	493 (669)
Finland	17	248	18 (19)	8 (20)	19 (36)	149 (510)	459 (850)
Israel	31	262	21 (35)	-	28 (37)	78 (150)	420 (515)
Denmark	16	171	9 (24)	13 (25)	29 (49)	164 (419)	402 (704)
Luxembourg	9	150	31 (33)	5 (10)	37 (101)	91 (255)	323 (558)
Russian Federation	7	73	-	2 (2)	52 (67)	156 (390)	290 (539)
Ireland	10	116	1 (2)	4 (25)	83 (147)	54 (84)	268 (384)
Cayman Islands	13	180	-	-	68 (192)	6 (14)	267 (399)
Norway	3	130	7 (7)	9 (13)	17 (27)	70 (209)	236 (389)
India	7	122	13 (13)	-	25 (36)	23 (34)	190 (212)
New Zealand	4	38	5 (5)	-	52 (94)	82 (174)	181 (315)
Thailand	1	32	1 (1)	-	114 (156)	18 (27)	166 (217)
Turkey	-	35	-	5 (30)	9 (13)	101 (175)	150 (253)
Poland	12	39	2 (2)	2 (3)	5 (7)	57 (124)	117 (187)
Saudi Arabia	4	80	-	-	20 (59)	1 (1)	105 (144)
Malaysia	18	13	2 (3)	-	65 (129)	2 (8)	100 (171)
Barbados	39	30	8 (26)	-	11 (22)	2 (3)	90 (120)
Indonesia	3	-	1 (1)	-	70 (95)	7 (15)	81 (114)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Virgin Islands (British)	3	2	-	-	59 (92)	16 (27)	80 (124)
Mexico	1	32	4 (4)	-	34 (46)	8 (12)	79 (95)
Viet Nam	1	3	3 (3)	-	38 (42)	33 (62)	78 (111)
Portugal	-	13	-	-	7 (9)	47 (76)	67 (98)
Czech Republic	1	19	-	4 (6)	9 (19)	30 (160)	63 (205)
Liechtenstein	1	19	1 (2)	4 (36)	3 (3)	29 (77)	57 (138)
Malta	5	29	-	1 (1)	8 (11)	11 (22)	54 (68)
United Arab Emirates	1	5	-	-	37 (49)	6 (13)	49 (68)
Cyprus	-	15	-	-	4 (4)	30 (63)	49 (82)
Greece	2	19	2 (4)	3 (3)	4 (5)	17 (30)	47 (63)
Chile	1	5	-	-	32 (39)	-	38 (45)
Bulgaria	-	4	-	-	3 (3)	30 (58)	37 (65)
Hungary	-	18	1 (1)	-	3 (4)	12 (34)	34 (57)
The Hong Kong Special Administrative Region of the People's Republic of China	-	7	10 (10)	-	17 (38)	-	34 (55)
Ukraine	4	3	-	2 (12)	1 (1)	23 (35)	33 (55)
Philippines	-	3	-	-	11 (12)	16 (31)	30 (46)
Brazil	2	9	1 (3)	-	18 (27)	-	30 (41)
Antigua and Barbuda	-	28	-	-	1 (5)	-	29 (33)
Bermuda	8	2	-	-	9 (14)	7 (13)	26 (37)
Seychelles	1	-	-	-	24 (25)	-	25 (26)
Estonia	-	6	1 (1)	-	-	16 (42)	23 (49)
Lithuania	-	3	-	1 (1)	2 (16)	16 (41)	22 (61)
South Africa	2	11	-	-	9 (16)	-	22 (29)
Monaco	-	-	-	1 (1)	4 (4)	17 (69)	22 (74)
Macao	3	1	13 (13)	-	4 (5)	-	21 (22)
Costa Rica	-	5	-	-	14 (19)	-	19 (24)
Uruguay	-	4	-	-	14 (19)	-	18 (23)
Argentina	-	-	-	-	17 (23)	-	17 (23)
Slovenia	1	4	-	1 (1)	0 (0)	8 (18)	14 (24)
Mauritius	-	1	-	-	11 (20)	1 (1)	13 (22)
Romania	-	5	-	-	-	8 (22)	13 (27)
Slovakia	-	4	1 (1)	3 (9)	-	4 (13)	12 (27)
Colombia	1	3	-	-	4 (5)	4 (8)	12 (17)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Samoa	3	-	-	-	9 (9)	-	12 (12)
Cuba	-	5	-	-	3 (8)	3 (3)	11 (16)
west indies	-	-	-	-	11 (11)	-	11 (11)
Armenia	1	-	-	-	2 (2)	7 (8)	10 (11)
Kuwait	-	-	-	-	9 (11)	-	9 (11)
Jersey(U.K.)	-	8	-	-	-	1 (3)	9 (11)
Peru	-	2	-	-	7 (7)	-	9 (9)
Qatar	-	-	-	-	9 (15)	-	9 (15)
Serbia	-	2	-	-	-	7 (12)	9 (14)
Iceland	-	1	-	-	-	7 (20)	8 (21)
Mongolia	1	-	-	-	3 (7)	4 (9)	8 (17)
Bahamas	-	4	-	-	4 (6)	-	8 (10)
Latvia	-	1	1 (1)	-	-	6 (14)	8 (16)
Panama	-	-	-	-	7 (10)	-	7 (10)
Croatia	-	-	-	3 (3)	1 (3)	2 (3)	6 (9)
Iran (Islamic Republic of)	1	1	-	-	1 (1)	3 (9)	6 (12)
Morocco	-	-	-	-	4 (4)	-	4 (4)
Kazakhstan	-	-	-	-	3 (3)	1 (3)	4 (6)
Jordan	-	1	-	-	3 (5)	-	4 (6)
Pakistan	-	1	-	-	3 (4)	-	4 (5)
Belarus	-	2	-	-	-	2 (5)	4 (7)
Egypt	-	1	-	-	-	3 (5)	4(6)
Georgia	-	-	-	-	1 (2)	2 (3)	3 (5)
Botswana	-	-	-	-	-	3 (135)	3 (135)
Saint Kitts and Nevis	-	-	-	-	3 (7)	-	3 (7)
Bhutan	3	-	-	-	-	-	3 (3)
Curacao	-	-	-	-	1 (1)	2 (2)	3(3)
Jamaica	-	-	-	-	3 (8)	-	3 (8)
Commonwealth of Puerto Rico	-	-	-	-	2 (3)	-	2 (3)
Tunisia	1	-	-	-	-	1 (2)	2 (3)
Syrian Arab Republic	-	1	-	-	-	1 (1)	2 (2)
European Patent Office (EPO)	-	-	-	-	2 (7)	-	2(7)
Bahrain	-	-	-	-	2 (2)	-	2 (2)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Sri Lanka	-	-	-	-	2 (4)	-	2 (4)
Yemen	-	-	-	-	2 (2)	-	2 (2)
Iraq	-	-	-	-	2 (5)	-	2 (5)
Republic of Moldova	-	-	-	-	-	2 (3)	2 (3)
Saint Vincent and the Grenadines	-	-	-	-	2 (2)	-	2 (2)
Lebanon	-	-	-	-	2 (2)	-	2 (2)
Dominican Republic	-	1	-	-	-	-	1 (1)
Bangladesh	1	-	-	-	-	-	1 (1)
Kenya	-	-	-	-	-	1 (1)	1 (1)
Kyrgyzstan	-	-	-	1 (1)	-	-	1 (1)
Uzbekistan	-	-	1 (1)	-	-	-	1 (1)
Guernsey	-	-	-	-	-	1 (2)	1 (2)
Bolivia	-	-	-	-	1 (3)	-	1 (3)
Montenegro	-	-	-	-	-	1 (5)	1 (5)
Cambodia	1	-	-	-	-	-	1 (1)
The former Yugoslav Republic of Macedonia	-	-	-	-	-	1 (2)	1 (2)
Belize	-	-	-	-	-	1 (1)	1 (1)
Isle of Man	-	-	-	-	-	1 (3)	1 (3)
Vanuatu	-	-	-	-	-	1 (1)	1 (1)
Haiti	1	-	-	-	-	-	1 (1)
Maldives	-	-	-	-	1 (2)	-	1 (2)
San Marino	-	-	-	-	-	1 (2)	1 (2)
Marshall Islands	-	-	-	-	1 (1)	-	1 (1)
Honduras	-	-	-	-	1 (2)	-	1 (2)
Cameroon	-	1	-	-	-	-	1 (1)
Oman	-	-	-	-	-	1 (1)	1 (1)
Liberia	-	-	-	-	1 (1)	-	1 (1)
Others	1	-	-	-	8 (8)	-	9 (9)
Total	10,449	37,431	4,124 (5,413)	833 (2,263)	15,423 (24,151)	14,367 (31,014)	82,627 (110,721)

Note: Figures in parentheses include multiple applications.

Examinations

Patents and utility models

(unit: cases)

Category		2014	2015	2016	2017	2018	
Patents	First Action	Approval of registration	15,798	10,433	7,872	9,891	9,657
		Notice of preliminary rejection or amendment	146,959	149,484	163,347	158,013	149,686
		Other notices	879	947	991	1,012	1,210
		Withdrawal or abandonment	3,288	3,909	2,582	2,196	2,136
		Total	166,924	164,773	174,792	171,112	162,689
	Final Decisions	Approval of registration	120,353	92,748	101,678	110,408	106,716
		Rejection or cancellation	53,611	52,963	66,055	62,869	55,631
		Withdrawal abandonment, annulment, or rejection	3,288	3,909	4,320	3,841	3,555
		Total	177,252	149,620	172,053	177,118	165,902
	Utility models	First Action	Approval of registration	874	425	317	337
Notice of preliminary rejection or amendment			8,015	6,856	6,848	6,161	5,275
Other notices			45	39	25	13	12
Withdrawal or abandonment			390	249	131	122	108
Total			9,324	7,569	7,321	6,633	5,647
Final Decisions		Approval of registration	5,067	3,204	2,935	3,040	2,638
		Rejection or cancellation	4,937	3,775	4,214	3,729	3,283
		Withdrawal abandonment, annulment, or rejection	390	249	268	234	190
		Total	10,394	7,228	7,417	7,003	6,111

Designs and trademarks

(unit: cases)

Category		2014	2015	2016	2017	2018		
Designs	First Action	Publication/approval of registration	33,182 (34,149)	27,800 (28,987)	31,398 (32,755)	29,453 (30,598)	27,559 (28,708)	
		Notice of preliminary rejection	35,665 (37,702)	38,041 (40,394)	31,540 (33,951)	30,275 (32,647)	29,654 (31,962)	
		Other notices	-	-	-	-	-	
		Total	68,847 (71,851)	65,841 (69,381)	62,938 (66,706)	59,728 (63,245)	57,213 (60,670)	
	Final Decisions	Approval of registration	58,878 (61,323)	57,006 (59,068)	55,783 (58,302)	51,166 (53,480)	50,161 (52,750)	
		Rejection	11,075 (11,713)	9,404 (10,072)	8,396 (9,496)	7,190 (7,978)	7,356 (8,089)	
		Total	69,953 (73,036)	66,410 (69,140)	64,179 (67,798)	58,356 (61,458)	57,517 (60,839)	
	Trademarks	First Action	Publication/approval of registration	83,475 (94,136)	96,005 (108,545)	98,921 (112,521)	94,490 (107,033)	96,236 (109,983)
			Notice of preliminary rejection	64,127 (84,104)	68,578 (90,758)	73,377 (106,332)	69,393 (97,656)	73,376 (106,978)
			Other notices	-	-	-	-	-
Final Decisions		Total	147,602 (178,240)	164,583 (199,303)	172,298 (218,853)	163,883 (204,689)	169,612 (216,961)	
		Approval of registration	111,917 (134,745)	128,500 (154,670)	136,948 (173,024)	133,378 (166,963)	133,359 (168,237)	
		Rejection	28,771 (34,092)	31,745 (38,463)	33,015 (41,813)	31,773 (39,414)	29,873 (36,697)	
Total	140,688 (168,837)	160,245 (193,133)	169,963 (214,837)	165,151 (206,377)	163,232 (204,934)			

Note: Figures in parentheses include multiple applications.

Average first action pendency

(unit: month)

Category	2014	2015	2016	2017	2018
Patents / Utility models	11.0	10.0	10.6	10.4	10.3
Trademarks	6.4	4.7	4.8	5.0	5.5
Designs	6.5	4.4	4.7	4.9	4.9

Average total pendency

(unit: month)

Category	2014	2015	2016	2017	2018
Patents / Utility models	16.7	16.0	16.2	15.9	15.8
Trademarks	11.5	10.0	9.6	9.8	10.4
Designs	8.5	6.8	5.9	6.2	6.5

PCT international search reports and preliminary examinations undertaken by KIPO

(unit: cases)

Category	2014	2015	2016	2017	2018
International Search Reports	30,160	28,468	28,176	25,955	24,123
International Preliminary Examinations	236	208	209	169	131

Note: Based on KIPO data

Registrations

Registrations by IPR type

(unit: cases)

Category	2014	2015	2016	2017	2018
Patents	129,786	101,873	108,875	120,662	119,014
Utility models	4,955	3,253	2,854	2,993	2,715
Subtotal	134,741	105,126	111,729	123,655	121,729
Designs	54,010	54,551	55,602	49,293	49,905
Trademarks	99,791	114,746	119,255	116,704	115,025
Total	288,542	274,423	286,586	289,652	286,659

Note: Trademark registration renewals are excluded.

Comparison of domestic and foreign registrations

(unit: cases)

Category		2014	2015	2016	2017	2018	
Patents	Domestic	Cases	97,294	76,319	82,400	90,847	89,229
		Ratio	75.0%	74.9%	75.7%	75.3%	75.0%
	Foreign	Cases	32,492	25,554	26,475	29,815	29,785
		Ratio	25.0%	25.1%	24.3%	24.7%	25.0%
	Total		129,786	101,873	108,875	120,662	119,014
	Utility models	Domestic	Cases	4,682	3,073	2,694	2,810
Ratio			94.5%	94.5%	94.4%	93.9%	92.9%
Foreign		Cases	273	180	160	183	194
		Ratio	5.5%	5.5%	5.6%	6.1%	7.1%
Total		4,955	3,253	2,854	2,993	2,715	
Designs		Domestic	Cases	49,856	49,933	50,242	44,052
	Ratio		92.3%	91.5%	90.4%	89.4%	88.5%
	Foreign	Cases	4,154	4,618	5,360	5,241	5,755
		Ratio	7.7%	8.5%	9.6%	10.6%	11.5%
	Total		54,010	54,551	55,602	49,293	49,905

(unit: cases)

Category			2014	2015	2016	2017	2018
Trademarks	Domestic	Cases	80,645	95,484	99,934	96,993	94,532
		Ratio	80.8%	83.2%	83.8%	83.1%	82.2%
	Foreign	Cases	19,146	19,262	19,321	19,711	20,493
		Ratio	19.2%	16.8%	16.2%	16.9%	17.8%
	Total		99,791	114,746	119,255	116,704	115,025
	Total	Domestic	Cases	232,477	224,809	235,270	234,702
Ratio			80.6%	81.9%	82.1%	81.0%	80.4%
Foreign		Cases	56,065	49,614	51,316	54,950	56,227
		Ratio	19.4%	18.1%	17.9%	19.0%	19.6%
Total		288,542	274,423	286,586	289,652	286,659	

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Measurement	4,115	934	5,049	48	4	52
Analysis of biological materials	410	132	542	1		1
Control	1,810	224	2,034	37	1	38
Medical technology	3,448	1,054	4,502	124	8	132
Organic fine chemistry	1,747	1,367	3,114	-	-	-
Biotechnology	1,939	698	2,637	1	-	1
Pharmaceuticals	1,494	774	2,268	-	-	-
Macromolecular chemistry, polymers	1,134	1,592	2,726	-	-	-
Food chemistry	2,492	161	2,653	11	2	13
Basic materials chemistry	1,805	1,278	3,083	2	1	3
Materials, metallurgy	2,122	914	3,036	6	1	7
Surface technology, coating	1,227	709	1,936	16	2	18
Micro-structural and nano-technology	57	47	104	-	-	-
Chemical engineering	2,145	569	2,714	39	5	44
Environmental technology	2,034	295	2,329	49	-	49
Handling	2,276	574	2,850	227	19	246
Machine tools	2,408	698	3,106	80	9	89
Engines, pumps, turbines	1,719	978	2,697	25	5	30
Textile and paper machines	1,230	496	1,726	13	5	18
Other special machines	4,084	893	4,977	231	3	234
Thermal processes and apparatus	1,651	195	1,846	43	2	45
Mechanical elements	2,054	712	2,766	92	12	104
Transport	5,262	943	6,205	155	6	161
Furniture, games	2,892	324	3,216	333	20	353
Other consumer goods	2,538	428	2,966	368	18	386
Civil engineering	5,740	331	6,071	287	6	293
Total	89,229	29,785	119,014	2,521	194	2,715

Note: Figures for 2018 are preliminary.

Patent and utility model registrations by technological field in 2018

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Electrical machinery, apparatus, energy	6,998	2,446	9,444	200	37	237
Audio-visual technology	2,966	1,043	4,009	64	4	68
Telecommunications	1,984	409	2,393	19	3	22
Digital communication	2,924	1,762	4,686	2		2
Basic communication processes	373	281	654	-	2	2
Computer technology	4,216	2,094	6,310	13	4	17
IT methods for management	3,560	262	3,822	6	-	6
Semiconductors	3,812	2,712	6,524	8	10	18
Optics	2,563	1,456	4,019	21	5	26

Patent registrations in biotechnology

(unit: cases)

Category	2014		2015		2016		2017		2018	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	3,604	79.6%	2,917	77.3%	3,507	78.6%	4,709	80.9%	4,524	79.3%
Foreign	926	20.4%	857	22.7%	955	21.4%	1,111	19.1%	1,149	20.3%
Total	4,530	100%	3,774	100%	4,462	100%	5,820	100%	5,673	100%

Note1: Figures for 2018 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	2014		2015		2016		2017		2018	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	2,087	92.8%	2,023	92.9%	3,145	93.9%	3,782	93.7%	3,560	93.1%
Foreign	162	7.2%	154	7.1%	204	6.1%	253	6.3%	262	6.9%
Total	2,249	100%	2,177	100%	3,349	100%	4,035	100%	3,822	100%

Note1: Figures for 2018 are preliminary.

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

Registrations by resident of foreign countries in 2018

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Japan	10,126	1,135	1,209	165	1,898 (3,696)	978 (1,794)	15,511 (18,125)
United States of America	7,182	755	1,307	241	2,904 (5,086)	1,945 (3,332)	14,334 (17,903)
China	1,665	190	457	24	2,928 (3,612)	976 (1,654)	6,240 (7,602)
Germany	2,590	275	193	294	185 (385)	1,214 (3,024)	4,751 (6,761)
France	841	92	87	251	297 (425)	698 (1,454)	2,266 (3,150)
Switzerland	604	55	127	240	281 (405)	633 (1,403)	1,940 (2,834)
United Kingdom	476	52	193	28	423 (896)	459 (1,069)	1,631 (2,714)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Italy	283	26	61	98	144 (206)	606 (1,322)	1,218 (1,996)
Netherlands	601	90	140	71	73 (123)	169 (460)	1,144 (1,485)
Taiwan, Province of China	574	43	64	-	364 (479)	-	1,045 (1,160)
Sweden	397	32	43	79	54 (139)	167 (391)	772 (1,081)
Australia	73	13	28	-	78 (100)	264 (558)	456 (772)
Canada	153	17	12	-	257 (457)	15 (29)	454 (668)
Singapore	68	9	78	1	107 (223)	136 (258)	399 (637)
Finland	174	23	25	16	30 (71)	128 (437)	396 (746)
Austria	191	23	-	11	20 (40)	92 (211)	337 (476)
Spain	70	11	7	3	56 (72)	177 (257)	324 (420)
Denmark	108	12	15	16	31 (85)	136 (323)	318 (559)
Belgium	111	13	2	19	22 (44)	76 (164)	243 (353)
Israel	115	19	18	-	46 (57)	42 (78)	240 (287)
Luxembourg	73	6	31	3	33 (97)	68 (199)	214 (409)
Ireland	82	12	2	-	30 (62)	63 (93)	189 (251)
Russian Federation	28	3	-	-	17 (34)	128 (260)	176 (325)
Norway	57	6	3	9	6 (12)	45 (104)	126 (191)
India	57	7	-	-	24 (41)	19 (51)	107 (156)
New Zealand	18	-	2	-	24 (41)	55 (107)	99 (168)
Cayman Islands	29	2	-	-	52 (153)	1 (1)	84 (185)
Liechtenstein	9	-	8	12	3 (7)	38 (80)	70 (116)
Thailand	9	2	-	-	55 (68)	3 (15)	69 (94)
Turkey	19	-	1	1	9 (10)	34 (60)	64 (91)
Mexico	16	1	3	-	39 (51)	4 (4)	63 (75)
Viet Nam	3	3	2	-	17 (28)	32 (59)	57 (95)
Poland	9	1	-	1	5 (7)	40 (117)	56 (135)
Barbados	34	4	12	-	2 (6)	1 (1)	53 (57)
Saudi Arabia	44	1	-	-	6 (10)	1 (1)	52 (56)
Malaysia	6	-	3	-	41 (51)	1 (2)	51 (62)
Portugal	5	-	-	1	9 (13)	28 (54)	43 (73)
Czech Republic	4	3	-	-	4 (6)	31 (67)	42 (80)
Cyprus	10	-	-	4	8 (8)	17 (30)	39 (52)
Indonesia	3	-	1	-	29 (32)	-	33 (36)
Chile	6	1	-	-	25 (33)	-	32 (40)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Malta	19	1	-	1	2 (3)	8 (18)	31 (42)
The Hong Kong Special Administrative Region of the People's Republic of China	1	-	6	1	19 (46)	-	27 (54)
United Arab Emirates	7	1	-	-	15 (23)	3 (4)	26 (35)
Brazil	11	1	-	-	13 (19)	-	25 (31)
Virgin Islands (British)	5	1	-	-	15 (29)	4 (7)	25 (42)
Greece	5	-	3	1	3 (4)	9 (14)	21 (27)
Hungary	5	2	-	-	4 (6)	10 (19)	21 (32)
Ukraine	6	-	-	1	-	11 (19)	18 (26)
Curacao	-	-	-	-	4 (4)	12 (12)	16 (16)
Lithuania	4	-	-	-	2 (16)	7 (20)	13 (40)
Estonia	3	-	2	2	-	5 (12)	12 (19)
Cuba	4	2	-	-	4 (4)	2 (2)	12 (12)
Monaco	2	-	-	-	3 (3)	7 (17)	12 (22)
South Africa	8	-	-	-	4 (6)	-	12 (14)
Slovenia	-	-	2	2	-	7 (15)	11 (19)
Bulgaria	-	1	-	-	2 (2)	7 (16)	10 (19)
Bermuda	3	-	-	-	4 (6)	3 (4)	10 (13)
Bahamas	7	-	-	-	2 (6)	1 (9)	10 (22)
Argentina	1	-	-	-	8 (8)	-	9 (9)
Philippines	1	-	-	-	6 (10)	2 (2)	9 (13)
Seychelles	1	-	-	-	7 (7)	1 (1)	9 (9)
Slovakia	-	-	-	1	1 (1)	6 (7)	8 (9)
Macao	-	-	6	-	1 (14)	-	7 (20)
Latvia	1	-	-	-	-	6 (8)	7 (9)
Mauritius	2	-	-	-	5 (9)	-	7 (11)
Armenia	-	-	-	-	2 (2)	4 (4)	6 (6)
Colombia	1	-	-	-	3 (3)	2 (2)	6 (6)
Croatia	-	-	-	-	3 (3)	3 (7)	6 (10)
Morocco	-	-	-	-	3 (3)	3 (3)	6 (6)
Tunisia	-	-	-	-	2 (2)	4 (8)	6 (10)
Qatar	-	-	2	-	3 (6)	-	5 (8)
Jordan	3	-	-	-	2 (3)	-	5 (6)
Sri Lanka	-	1	-	-	3 (3)	-	4 (4)
Samoa	1	-	-	-	3 (3)	-	4 (4)
Romania	-	-	1	-	-	2 (4)	3 (5)
Belarus	1	-	-	-	-	2 (4)	3 (5)
Belize	-	-	-	-	2 (2)	1 (2)	3 (4)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Egypt	-	-	-	-	1 (1)	2 (2)	3 (3)
Iran (Islamic Republic of)	-	-	-	-	-	3 (5)	3 (5)
Iceland	-	-	-	-	-	3 (5)	3 (5)
Republic of Moldova	-	-	-	-	-	3 (3)	3 (3)
Namibia	1	-	-	-	2 (2)	-	3 (3)
Panama	1	-	-	-	2 (3)	-	3 (4)
Uzbekistan	1	-	-	-	-	2 (6)	3 (7)
Liberia	-	-	2	-	-	-	2 (2)
Fiji	-	-	-	-	-	2 (2)	2 (2)
Georgia	-	-	-	-	1 (2)	1 (1)	2 (3)
Greenland	-	-	-	-	1 (2)	1 (1)	2 (3)
Jersey(U.K.)	-	-	-	-	-	2 (2)	2 (2)
Cambodia	-	-	-	-	2 (2)	-	2 (2)
Marshall Islands	1	-	-	-	1 (1)	-	2 (2)
Myanmar	-	-	-	-	2 (2)	-	2 (2)
Peru	-	-	-	-	2 (2)	-	2 (2)
Serbia	1	-	-	-	-	1 (2)	2 (3)
Venezuela	-	-	-	-	1 (1)	1 (2)	2 (3)
Netherlands Antilles	-	-	-	-	1 (1)	-	1 (1)
Azerbaijan	-	-	-	-	1 (1)	-	1 (1)
Bangladesh	1	-	-	-	-	-	1 (1)
Bolivia	-	-	-	-	1 (1)	-	1 (1)
Dominican Republic	-	-	-	-	1 (1)	-	1 (1)
Algeria	-	-	-	-	-	1 (1)	1 (1)
Ghana	1	-	-	-	-	-	1 (1)
Jamaica	-	-	-	-	1 (1)	-	1 (1)
Kyrgyzstan	-	-	-	-	-	1 (2)	1 (2)
Kuwait	-	-	-	-	1 (1)	-	1 (1)
Lebanon	-	-	-	-	1 (1)	-	1 (1)
Mozambique	-	-	-	-	-	1 (1)	1 (1)
Papua New Guinea	-	-	-	-	1 (1)	-	1 (1)
Pakistan	-	-	-	-	1 (1)	-	1 (1)
El Salvador	-	-	-	-	1 (1)	-	1 (1)
Syrian Arab Republic	-	-	-	-	1 (1)	-	1 (1)
Others	-	-	-	-	-	5 (20)	5 (20)
Total	27,032	2,947	4,158	1,597	10,812 (17,656)	9,681 (19,818)	56,227 (73,208)

Figures in parentheses include multiple applications

Trials and appeals

Requested trials and appeals

(unit: cases)

Category		2014	2015	2016	2017	2018
Appeal against examiner's decision to reject application	Patents	6,123	6,093	5,470	4,351	3,624
	Utility models	116	112	200	180	162
	Designs	154 (156)	119	109	90	102
	Trademarks	1,816 (2,656)	1,559 (2,293)	1,626 (2,284)	1,569 (2,295)	1,437 (2,046)
	Subtotal	8,209 (9,051)	7,883 (8,617)	7,405 (8,063)	6,190 (6,916)	5,325 (5,934)
Appeals against examiner's decision to dismiss amendment	Patents	-	-	1	1	1
	Utility models	-	-	-	-	-
	Designs	11 (11)	7 (15)	5	1	-
	Trademarks	1 (1)	6 (7)	5 (11)	-	-
	Subtotal	12 (12)	13 (22)	11 (17)	2	1
Appeals against examiner's decision of cancellation	Patents	-	-	-	-	-
	Utility models	1	1	-	-	-
	Designs	4 (4)	4	2	-	1
	Trademarks	-	-	-	-	-
	Subtotal	5 (5)	5	2	-	1
Trials for correction	Patents	140	134	145	136	128
	Utility models	6	6	9	4	-
	Designs	-	-	-	-	-
	Trademarks	-	-	-	-	-
	Subtotal	146 (146)	140	154	140	128
Invalidation	Patents	687	2,194	548	529	460
	Utility models	64	80	50	27	21
	Designs	254 (255)	209 (210)	247	194	207
	Trademarks	467 (550)	584 (658)	492 (553)	433 (486)	472 (559)
	Subtotal	1,472 (1,556)	3,067 (3,142)	1,337 (1,398)	1,183 (1,236)	1,160 (1,247)

(unit: cases)

Category		2014	2015	2016	2017	2018
Trials to confirm scope of IP right	Patents	385	691	632	671	512
	Utility models	64	53	47	29	20
	Designs	149 (149)	138	149	136	151
	Trademarks	90 (119)	93 (132)	101 (170)	90 (102)	158 (175)
	Subtotal	688 (717)	975 (1,014)	929 (998)	926 (938)	841 (858)
Cancellation trials on trademark registration	Patents	-	-	-	1	1
	Utility models	-	-	-	-	-
	Designs	-	-	-	-	17
	Trademarks	1,449 (1,826)	1903 (2305)	2,122 (2,526)	2,124 (2,474)	2,523 (3,011)
	Subtotal	1,449 (1,826)	1903 (2305)	2,122 (2,526)	2,125 (2,475)	2,541 (3,029)
Opposition of patent/utility model	Patents	-	-	-	109	150
	Utility models	-	-	-	1	4
	Designs	-	-	-	1	-
	Trademarks	-	-	-	-	-
	Subtotal	-	-	-	111	154
Grand total	Patents	7,335	9,112	6,796	5,689	4,876
	Utility models	251	252	306	240	207
	Designs	572 (575)	477 (486)	512	421	478
	Trademarks	3,823 (5,152)	4,145 (5,395)	4,346 (5,544)	4,216 (5,357)	4,590 (5,791)
	Total	11,981 (13,313)	13,986 (15,245)	11,960 (13,158)	10,566 (11,565)	10,151 (11,352)

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		2014		2015		2016		2017		2018	
		Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio
Ex partes	Patents	1,190	27.8%	1,046	30.4%	1,036	29.0%	1,078	30.3%	1,370	31.1%
	Utility models	29	25.0%	29	27.6%	32	33.0%	33	26.0%	40	20.5%
	Designs	66 (77)	42.0% (45.8%)	46 (54)	35.4% (39.1%)	50	43.1%	43	31.9%	21	20.6%
	Trademarks	864 (1,321)	49.3% (53.4%)	844 (1,368)	52.4% (58.7%)	655 (1,053)	48.4% (53.1%)	605 (896)	54.8% (58.9%)	1,026 (1,648)	58.3% (63.1%)
	Subtotal	2,149 (2,617)	34.0% (37.1%)	1,965 (2,497)	37.2% (41.5%)	1,773 (2,171)	41.5% (37.6%)	1,759 (2,050)	35.7% (38.4%)	2,457 (3,079)	38.0% (42.1%)
Inter partes	Patents	457	50.7%	687	38.7%	526	42.2%	616	46.2%	552	49.1%
	Utility models	52	38.8%	66	56.9%	52	50.5%	45	54.9%	19	35.2%
	Designs	167 (169)	51.1% (51.4%)	161 (161)	47.5% (47.5%)	164 (166)	54.8% (55.1%)	187	47.9%	210	51.0%
	Trademarks	1,218 (1,490)	65.1% (66.3%)	1,401 (1,653)	69.0% (68.1%)	1,436 (1,691)	65.2% (64.0%)	2,436 (2,760)	78.1% (76.9%)	1,747 (1,962)	70.1% (70.2%)
	Subtotal	1,894 (2,168)	58.6% (60.0%)	2,315 (2,567)	54.4% (55.1%)	2,178 (2,435)	56.6% (56.7%)	3,284 (3,608)	66.7% (66.9%)	2,528 (2,743)	61.9% (62.6%)
Grand total	Patents	1,647	31.7%	1,733	33.2%	1,562	32.4%	1,694	34.6%	1,922	34.7%
	Utility models	81	32.4%	95	43.0%	84	42.0%	78	37.3%	59	23.7%
	Designs	233 (246)	48.1% (49.5%)	207 (215)	44.1% (45.1%)	214 (216)	51.6% (51.8%)	230	43.8%	231	44.9%
	Trademarks	2,082 (2,811)	57.4% (59.5%)	2,245 (3,021)	61.7% (63.5%)	2,091 (2,744)	58.8% (59.3%)	3,041 (3,656)	72.0% (71.5%)	2,773 (3,610)	65.2% (66.8%)
	Total	4,043 (4,785)	42.3% (44.9%)	4,280 (5,064)	44.8% (47.5%)	3,951 (4,606)	43.9% (45.8%)	5,043 (5,658)	51.2% (52.7%)	4,985 (5,822)	47.3% (49.8%)

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 examiners' 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		2014	2015	2016	2017	2018
Patents	Domestic	3,814	5,809	3,891	3,499	3,214
	Foreign	3,521	3,303	2,905	2,190	1,662
Utility models	Domestic	244	240	301	237	201
	Foreign	7	12	5	3	6
Designs	Domestic	514	432	459	373	419
	Foreign	61	54	53	48	59
Trademarks	Domestic	2,869	3,057	3,014	2,703	3,077
	Foreign	2,283	2,338	2,530	1,513	1,513
Total		13,313	15,245	13,158	10,566	10,151

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

Income and expenditures / KIPO staff

Income

(unit: USD)

Category	2014	2015	2016	2017	2018
Income from fees	398,832,701	387,177,426	397,276,404	428,025,022	453,061,823
Income carried over from the previous year	33,854,369	29,384,892	22,901,485	28,072,668	25,242,832
Internal income and others	18,253,339	47,850,417	90,568,774	119,661,120	150,976,703
Total	450,940,409	464,412,736	510,746,664	575,758,810	629,281,358

Expenditures

(unit: USD)

Category	2014	2015	2016	2017	2018
Non-personnel resources (projects)	266,319,800	258,066,111	360,459,363	393,025,808	455,687,588
Personnel resources	103,989,102	97,273,767	99,443,391	106,532,589	116,102,191
Deposit for special fund	48,858,586	85,636,518	23,621,577	35,270,004	47,461,470
Total	419,167,488	440,976,396	483,524,330	534,828,401	619,251,249

KIPO staff

(unit: number of positions)

Category	2014	2015	2016	2017	2018	
Examiners	Patents and utility models	724	741	734	832	875
	Designs and trademarks	151	159	162	165	162
Administrative judges	90	95	95	103	107	
Administrative staff	622	605	601	527	517	
Total	1,587	1,600	1,592	1,627	1,661	

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	351	58	28	6	19
	Trademarks	3	1	3	4	0
	Designs	5	1	2	1	0
	Total	359	60	33	11	19