

Applications

Application by IPR type

(unit: cases)

Category	2012	2013	2014	2015	2016
Patents	188,915	204,589	210,292	213,694	208,830
Utility models	12,424	10,968	9,184	8,711	7,767
Subtotal	201,339	215,557	219,476	222,405	216,597
Designs	63,135 (65,469)	66,940 (70,054)	64,345 (67,586)	67,954 (70,190)	64,678 (66,728)
Trademarks	132,522 (160,447)	147,667 (177,685)	150,226 (183,815)	185,443 (239,334)	170,347 (204,012)
Total	396,996 (427,255)	430,164 (463,296)	434,047 (470,877)	475,802 (533,929)	451,622 (696,167)

Note: Figures in parentheses include multiple applications.

PCT applications

(unit: cases)

Category	2012	2013	2014	2015	2016
Number of applications	11,869	12,439	13,138	14,594	15,595
Growth rate	13.9%	4.8%	5.6%	11.1%	6.8%

International trademark applications under the Madrid System

(unit: cases)

Category	2012	2013	2014	2015	2016
Korea as office of origin	499	502	671	835	942
Korea as designated office	10,090	10,967	10,402	12,997	11,259

International design applications under the Hague System

(unit: cases)

Category	2015	2016
Korea as office of origin	153	104
Korea as designated office	628	981

Comparison of domestic and foreign applications

(unit: cases)

Category			2012	2013	2014	2015	2016
Patents	Domestics	Cases	148,136	159,978	164,073	167,273	163,424
		Ratio	78.4%	78.2%	78.0%	78.3%	78.3%
	Foreign	Cases	40,779	44,611	46,223	46,421	45,406
		Ratio	21.6%	21.8%	22.0%	21.7%	21.7%
	Total		188,915	204,589	210,292	213,694	208,830
	Utility models	Domestics	Cases	11,899	10,463	8,754	8,294
Ratio			95.8%	95.4%	95.3%	95.2%	95.2%
Foreign		Cases	525	505	430	417	372
		Ratio	4.2%	4.6%	4.7%	4.8%	4.8%
Total		12,424	10,968	9,184	8,711	7,767	
Designs		Domestics	Cases	59,487 (60,867)	63,102 (65,485)	65,485 (60,795)	64,081 (65,895)
	Ratio		94.2% (93.0%)	94.3% (93.5%)	93.5% (94.5%)	94.3% (91.3%)	95.1% (93.8%)
	Foreign	Cases	3,648 (4,602)	3,838 (4,569)	4,569 (3,550)	3,873 (6,295)	3,187 (4,110)
		Ratio	5.8% (7.0%)	5.7% (6.5%)	6.5% (5.5%)	5.7% (8.7%)	4.9% (6.2%)
	Total		63,135 (65,469)	66,940 (70,054)	70,054 (64,345)	67,954 (72,190)	64,678 (66,728)
	Trademarks	Domestics	Cases	120,341 (140,908)	135,231 (158,058)	158,058 (138,045)	160,033 (191,485)
Ratio			90.8% (87.8%)	91.6% (89.0%)	89.0% (85.9%)	86.3% (80.0%)	92.2% (90.0%)
Foreign		Cases	12,181 (19,539)	12,436 (19,627)	22,618 (41,624)	25,410 (47,849)	13,240 (20,400)
		Ratio	9.2% (12.2%)	8.4% (11.0%)	14.1% (20.2%)	13.7% (20.0%)	7.8% (10.0%)
Total		132,522 (160,447)	147,667 (177,685)	160,663 (205,859)	185,443 (239,334)	170,347 (204,012)	
Total		Domestics	Cases	339,863 (201,775)	368,774 (223,543)	371,667 (227,311)	399,681 (257,380)
	Ratio		85.6% (47.2%)	85.7% (48.3%)	83.6% (46.1%)	84.0% (48.2%)	86.2% (85.6%)
	Foreign	Cases	57,133 (24,141)	61,390 (24,196)	72,817 (46,134)	76,121 (54,144)	62,205 (70,288)
		Ratio	14.4% (5.7%)	14.3% (5.2%)	16.4% (9.4%)	16.0% (10.1%)	13.8% (14.4%)
	Total		396,996 (427,255)	430,164 (463,296)	444,484 (492,921)	475,802 (533,929)	451,622 (487,337)

Note: Figures in parentheses include multiple applications.

Patent and utility model applications by technological field in 2016

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Electrical machinery, apparatus, energy	12,429	3,265	15,694	538	39	577
Audio-visual technology	5,659	1,537	7,196	150	8	158
Telecommunications	2,913	666	3,579	88	4	92
Digital communication	5,770	2,785	8,555	9	1	10
Basic communication processes	653	345	998	1	2	3
Computer technology	8,673	3,156	11,829	74	7	81
IT methods for management	9,381	522	9,903	35	-	35
Semiconductors	6,425	3,738	10,163	19	16	35
Optics	4,136	1,922	6,058	71	17	88
Measurement	6,715	1,414	8,129	126	14	140
Analysis of biological materials	690	175	865	8	-	8
Control	2,750	370	3,120	96	4	100
Medical technology	6,290	1,714	8,004	317	28	345
Organic fine chemistry	3,233	2,088	5,321	1	1	2
Biotechnology	2,648	1,365	4,013	9	-	9
Pharmaceuticals	2,418	1,537	3,955	-	-	-
Macromolecular chemistry, polymers	1,903	1,816	3,719	-	-	-
Food chemistry	4,091	221	4,312	38	7	45
Basic materials chemistry	3,066	1,719	4,785	21	2	23
Materials, metallurgy	3,418	1,355	4,773	35	5	40
Surface technology, coating	2,188	1,465	3,653	40	10	50
Micro-structural and nano-technology	77	48	125	-	1	1
Chemical engineering	3,274	812	4,086	90	11	101
Environmental technology	3,017	444	3,461	113	3	116
Handling	3,818	731	4,549	567	27	594
Machine tools	3,643	1,023	4,666	186	11	197
Engines, pumps, turbines	2,886	1,279	4,165	78	9	87
Textile and paper machines	1,760	536	2,296	53	7	60
Other special machines	6,045	1,347	7,392	495	14	509
Thermal processes and apparatus	3,080	375	3,455	171	6	177
Mechanical elements	3,155	1,014	4,169	213	8	221
Transport	9,486	1,563	11,049	529	11	540

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Furniture, games	5,849	504	6,353	1,052	33	1,085
Other consumer goods	5,595	679	6,274	1,088	42	1,130
Civil engineering	8,728	487	9,215	652	15	667
Others	7,562	1,389	8,951	432	9	441
Total	163,424	45,406	208,830	7,395	372	7,767

Note: Figures for 2016 are preliminary.

Patent applications in biotechnology

(unit: cases)

Category	2012		2013		2014		2015		2016	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	4,852	74.6%	5,152	72.8%	5,091	73.3%	5,601	74.0%	6,700	75.1%
Foreign	1,654	25.4%	1,929	27.2%	1,856	26.7%	1,972	26.0%	2,222	24.9%
Total	6,506	100%	7,081	100%	6,947	100%	7,572	100%	8,922	100%

Note1: Figures for 2016 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 3/00-3/34, 11/02-11/04; 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	2012		2013		2014		2015		2016	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	7,259	95.8%	6,828	94.9%	6,813	93.5%	8,621	94.4%	9,381	94.7%
Foreign	315	4.2%	365	5.1%	476	6.5%	510	5.6%	522	5.3%
Total	7,574	100%	7,193	100%	7,289	100%	9,131	100%	9,903	100%

Note1: Figures for 2016 are preliminary.

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

Applications by residents of foreign countries in 2016

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
United States of America	1,763	11,940	1,000 (1,292)	117 (306)	3,783 (6,196)	2,351 (3,941)	20,954 (25,438)
Japan	4,677	10,128	941 (1,140)	96 (184)	2,152 (3,623)	944 (1,875)	18,938 (21,627)
China	623	2,304	323 (347)	21 (29)	3,456 (4,204)	1,106 (1,852)	7,833 (9,359)
Germany	689	3,435	155 (305)	121 (400)	230 (514)	1,543 (4,155)	6,173 (9,498)
France	227	1,541	92 (101)	119 (343)	349 (515)	826 (1,919)	3,154 (4,646)
Switzerland	299	1,114	29 (52)	234 (755)	251 (361)	674 (1,545)	2,601 (4,126)
United Kingdom	104	802	104 (172)	21 (42)	536 (1,086)	526 (1,319)	2,093 (3,525)
Italy	38	434	40 (55)	66 (141)	197 (300)	729 (1,589)	1,504 (2,557)
Netherlands	102	813	155 (156)	72 (122)	86 (138)	227 (532)	1,455 (1,863)
Taiwan	817	89	56 (69)	-	411 (539)	-	1,373 (1,514)
Sweden	70	524	41 (147)	29 (53)	66 (128)	175 (444)	905 (1,366)
Canada	52	293	43 (49)	1 (3)	303 (519)	13 (31)	705 (947)
Australia	17	188	22 (23)	-	147 (197)	296 (653)	670 (1,078)
Singapore	26	121	4 (4)	3 (3)	217 (344)	158 (302)	529 (800)
Austria	51	256	6 (6)	2 (2)	7 (15)	122 (293)	444 (623)
Spain	15	125	9 (9)	4 (17)	38 (52)	251 (388)	442 (606)
Finland	20	266	8 (8)	5 (6)	21 (51)	102 (361)	422 (712)
Belgium	25	250	5 (5)	9 (14)	26 (59)	97 (180)	412 (533)
Israel	16	225	17 (17)	1 (2)	46 (65)	63 (128)	368 (453)
Denmark	24	142	2 (2)	4 (12)	25 (59)	138 (313)	335 (552)
Luxembourg	6	136	45 (46)	5 (24)	31 (49)	104 (265)	327 (526)
Ireland	8	91	2 (2)	1 (2)	39 (63)	82 (117)	223 (283)
India	12	109	1 (1)	-	31 (61)	28 (51)	181 (234)
New Zealand	1	42	2 (2)	-	43 (64)	77 (156)	165 (265)
Norway	2	89	10 (12)	4 (20)	5 (10)	38 (107)	148 (240)
Russian Federation	4	55	1 (1)	1 (5)	17 (23)	70 (160)	148 (248)
Cayman Islands	4	68	-	-	60 (207)	1 (1)	133 (280)
Turkey	2	23	1 (1)	13 (27)	5 (8)	89 (165)	133 (226)
Thailand	4	14	3 (3)	-	77 (100)	2 (4)	100 (125)
Poland	2	12	2 (2)	2 (5)	11 (16)	68 (157)	97 (194)
Saudi Arabia	1	76	-	-	13 (17)	-	90 (94)
Malaysia	6	9	5 (5)	-	65 (83)	3 (3)	88 (106)
Mexico	3	24	2 (5)	-	38 (73)	6 (6)	73 (111)
Indonesia	2	1	1 (1)	-	69 (77)	-	73 (81)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Barbados	2	30	22 (25)	-	18 (34)	-	72 (91)
Liechtenstein	2	41	3 (3)	1 (3)	1 (1)	19 (28)	67 (78)
Czech Republic	-	12	1 (4)	1 (5)	3 (3)	46 (95)	63 (119)
Brazil	1	34	-	-	24 (34)	1 (3)	60 (72)
Viet Nam	4	2	1 (1)	-	23 (25)	24 (50)	54 (82)
Portugal	-	16	-	4 (6)	4 (10)	26 (48)	50 (80)
Malta	2	21	-	-	4 (8)	21 (46)	48 (77)
Chile	1	6	-	-	40 (54)	-	47 (61)
Hong Kong	-	-	11 (11)	-	36 (54)	-	47 (65)
Greece	-	15	4 (4)	2 (2)	6 (15)	17 (21)	44 (57)
Virgin Islands (British)	-	3	1 (1)	-	23 (34)	16 (30)	43 (68)
United Arab Emirates	1	10	-	-	23 (47)	5 (8)	39 (66)
Monaco	4	1	2 (2)	-	19 (19)	11 (54)	37 (80)
Cyprus	2	9	1 (3)	3 (4)	8 (8)	13 (19)	36 (45)
Argentina	-	2	-	-	22 (23)	2 (2)	26 (27)
Hungary	-	12	-	1 (2)	2 (2)	11 (23)	26 (39)
Bermuda	1	1	-	-	18 (20)	2 (3)	22 (25)
South Africa	-	14	1 (1)	-	4 (4)	-	19 (19)
Slovenia	1	6	1 (1)	3 (17)	2 (4)	6 (16)	19 (45)
Bahamas	-	9	-	-	5 (7)	4 (28)	18 (44)
Lithuania	-	3	-	2 (3)	1 (3)	11 (17)	17 (26)
Bulgaria	1	1	-	2 (6)	-	10 (18)	14 (26)
Iran	-	1	-	-	4 (4)	9 (54)	14 (59)
Philippines	-	1	-	-	4 (4)	8 (8)	13 (13)
Bangladesh	1	11	-	-	-	-	12 (12)
Ukraine	1	1	-	-	-	10 (20)	12 (22)
Macao	-	-	6 (6)	-	4 (25)	-	10 (31)
Seychelles	1	4	-	-	4 (4)	1 (1)	10 (10)
Estonia	-	1	1 (2)	2 (9)	-	6 (8)	10 (20)
Mauritius	-	4	-	-	4 (8)	-	8 (12)
Cuba	-	4	-	-	4 (4)	-	8 (8)
Latvia	-	-	-	-	-	7 (14)	7 (14)
Romania	1	2	-	-	2 (6)	2 (5)	7 (14)
Samoa	-	2	-	-	5 (7)	-	7 (9)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Qatar	-	-	-	-	7 (23)	-	7 (23)
Slovakia	-	-	1 (1)	1 (4)	-	4 (9)	6 (14)
Iceland	-	-	-	-	3 (3)	3 (4)	6 (7)
Ecuador	-	-	-	-	6 (6)	-	6 (6)
Colombia	1	2	-	-	2 (4)	1 (1)	6 (8)
Croatia	-	1	-	-	1 (1)	4 (5)	6 (7)
Mongolia	-	-	-	-	4 (6)	1 (3)	5 (9)
Belize	-	-	-	-	5 (6)	-	5 (6)
Georgia	-	-	-	-	-	4 (6)	4 (6)
Nigeria	-	-	-	-	4 (5)	-	4 (5)
Netherlands Antilles	-	-	-	-	4 (4)	-	4 (4)
Venezuela	1	1	-	-	-	2 (4)	4 (6)
Sri Lanka	-	-	-	-	4 (9)	-	4 (9)
Uzbekistan	3	1	-	-	-	-	4 (4)
Egypt	-	1	-	-	1 (1)	2 (2)	4 (4)
Curacao	-	-	-	-	1 (1)	3 (3)	4 (4)
Pakistan	-	-	-	-	4 (4)	-	4 (4)
Greenland	-	-	-	-	3 (4)	-	3 (4)
Namibia	-	1	-	-	2 (3)	-	3 (4)
Belarus	-	-	-	-	-	3 (10)	3 (10)
Serbia	-	-	-	-	-	3 (4)	3 (4)
Gibraltar	-	-	-	-	-	3 (6)	3 (6)
Costa Rica	-	-	-	-	3 (3)	-	3 (3)
Panama	-	1	2 (3)	-	-	-	3 (4)
Liberia	-	-	2 (2)	-	-	-	2 (2)
Libya	-	-	-	-	2 (2)	-	2 (2)
Macedonia	-	-	-	-	-	2 (4)	2 (4)
Morocco	1	-	-	-	1 (1)	-	2 (2)
Bahrain	-	-	-	-	-	2 (2)	2 (2)
Andorra	-	-	-	-	-	2 (7)	2 (7)
Jersey (U.K.)	-	-	-	-	-	2 (8)	2 (8)
Jordan	-	1	-	-	1 (1)	-	2 (2)
Cambodia	1	-	-	-	1 (1)	-	2 (2)
Kenya	-	-	-	-	1 (4)	1 (1)	2 (5)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Kuwait	-	-	-	-	2 (4)	-	2 (4)
Paraguay	-	-	-	-	2 (6)	-	2 (6)
Dominican Republic	-	-	-	-	1 (1)	-	1 (1)
Lao People's Democratic Republic	-	-	-	-	1 (1)	-	1 (1)
Lebanon	-	-	-	-	1 (1)	-	1 (1)
Isle of Man	-	-	-	-	-	1 (4)	1 (4)
Republic of Moldova	-	-	-	-	-	1 (1)	1 (1)
Bosnia and Herzegovina	-	-	-	-	-	1 (1)	1 (1)
Brunei Darussalam	-	1	-	-	-	-	1 (1)
Saint Vincent and the Grenadines	-	-	-	-	1 (1)	-	1 (1)
Saint Kitts and Nevis	-	1	-	-	-	-	1 (1)
Armenia	-	1	-	-	-	-	1 (1)
Albania	1	-	-	-	-	-	1 (1)
Yemen	-	-	-	-	1 (1)	-	1 (1)
Iraq	-	1	-	-	-	-	1 (1)
Peru	-	-	-	-	1 (1)	-	1 (1)
Puerto Rico	-	-	-	-	-	1 (1)	1 (1)
Others	1	-	-	-	2 (5)	-	3 (6)
Total	9,747	36,031	3,187 (4,110)	973 (2,578)	13,240 (20,400)	11,243 (23,717)	74,421 (96,583)

Note: Figures in parentheses include multiple applications.

Examinations

Patents and utility models

(unit: cases)

Category		2012	2013	2014	2015	2016	
Patents	First Action	Approval of registration	17,115	18,713	15,798	10,433	7,872
		Notice of preliminary rejection or amendment	141,890	158,828	146,959	149,484	163,347
		Other notices	477	431	879	947	991
		Withdrawal or abandonment	3,764	3,899	3,288	3,909	2,582
		Total	163,246	181,871	166,924	164,773	174,792
	Final Decisions	Approval of registration	108,236	121,866	120,353	92,748	101,678
		Rejection or cancellation	51,912	54,029	53,611	52,963	66,055
		Withdrawal abandonment, annulment, or rejection	3,764	3,899	3,288	3,909	4,320
		Total	163,912	179,794	177,252	149,620	172,053
	Utility models	First Action	Approval of registration	1,714	1,451	874	425
Notice of preliminary rejection or amendment			11,352	10,085	8,015	6,856	6,848
Other notices			51	41	45	39	25
Withdrawal or abandonment			432	441	390	249	131
Total			13,549	12,018	9,324	7,569	7,321
Final Decisions		Approval of registration	7,003	6,086	5,067	3,204	2,935
		Rejection or cancellation	7,459	6,192	4,937	3,775	4,214
		Withdrawal abandonment, annulment, or rejection	432	441	390	249	268
		Total	14,894	12,719	10,394	7,228	7,417

Designs and trademarks

(unit: cases)

Category		2012	2013	2014	2015	2016		
Designs	First Action	Publication/approval of registration	30,398 (31,168)	29,809 (30,757)	33,182 (34,149)	27,800 (28,987)	31,398 (32,755)	
		Notice of preliminary rejection	32,436 (33,871)	34,612 (36,264)	35,665 (37,702)	38,041 (40,394)	31,540 (33,951)	
		Other notices	-	-	-	-	-	
		Total	62,834 (65,039)	64,421 (67,021)	68,847 (71,851)	65,841 (69,381)	62,938 (66,706)	
	Final Decisions	Approval of registration	50,960 (52,560)	51,636 (53,538)	58,878 (61,323)	57,006 (59,068)	55,783 (58,302)	
		Rejection	10,165 (10,477)	10,945 (11,381)	11,075 (11,713)	9,404 (10,072)	8,396 (9,496)	
		Total	61,125 (63,037)	62,581 (64,919)	69,953 (73,036)	66,410 (69,140)	64,179 (67,798)	
	Trademarks	First Action	Publication/approval of registration	57,215 (63,777)	74,674 (81,674)	83,475 (94,136)	96,005 (108,545)	98,921 (112,521)
			Notice of preliminary rejection	55,921 (73,897)	70,398 (90,933)	64,127 (84,104)	68,578 (90,758)	73,377 (106,332)
			Other notices	-	-	-	-	-
Final Decisions		Total	113,136 (137,674)	145,072 (172,607)	147,602 (178,240)	164,583 (199,303)	172,298 (218,853)	
		Approval of registration	85,875 (103,660)	110,118 (130,158)	111,917 (134,745)	128,500 (154,670)	136,948 (173,024)	
		Rejection	26,943 (32,711)	32,168 (38,601)	28,771 (34,092)	31,745 (38,463)	33,015 (41,813)	
Total	112,818 (136,371)	142,286 (168,759)	140,688 (168,837)	160,245 (193,133)	169,963 (214,837)			

Note: Figures in parentheses include multiple applications.

Average first action pendency

(unit: month)

Category	2012	2013	2014	2015	2016
Patents / Utility models	14.8	13.2	11.0	10.0	10.6
Trademarks	8.9	7.7	6.4	4.7	4.8
Designs	8.8	7.3	6.5	4.4	4.7

Average total pendency

(unit: month)

Category	2012	2013	2014	2015	2016
Patents / Utility models	21.6	19.1	16.7	16.0	16.2
Trademarks	13.5	12.7	11.5	10.0	9.6
Designs	10.5	9.2	8.5	6.8	5.9

PCT international search reports and preliminary examinations undertaken by KIPO

(unit: cases)

Category	2012	2013	2014	2015	2016
International Search Reports	27,080	29,531	30,160	28,468	28,176
International Preliminary Examinations	301	252	236	208	209

Note: Based on KIPO data

Registrations

Registrations by IPR type

(unit: cases)

Category	2012	2013	2014	2015	2016
Patents	113,467	127,330	129,786	101,873	108,875
Utility models	6,353	5,959	4,955	3,253	2,854
Subtotal	119,820	133,289	134,741	105,126	111,729
Designs	46,146	47,308	54,010	54,551	55,602
Trademarks	77,903	100,093	99,791	114,746	119,255
Total	243,869	280,690	288,542	274,423	286,586

Note: Trademark registration renewals are excluded.

Comparison of domestic and foreign registrations

(unit: cases)

Category			2012	2013	2014	2015	2016
Patents	Domestics	Cases	84,061	95,667	97,294	76,319	82,400
		Ratio	74.1%	75.1%	75.0%	74.9%	75.7%
	Foreign	Cases	29,406	31,663	32,492	25,554	26,475
		Ratio	25.9%	24.9%	25.0%	25.1%	24.3%
	Total		113,467	127,330	129,786	101,873	108,875
	Utility models	Domestics	Cases	6,151	5,718	4,682	3,073
Ratio			96.8%	96.0%	94.5%	94.5%	94.4%
Foreign		Cases	202	241	273	180	160
		Ratio	3.2%	4.0%	5.5%	5.5%	5.6%
Total		6,353	5,959	4,955	3,253	2,854	
Designs		Domestics	Cases	42,628	43,866	49,856	49,933
	Ratio		92.4%	92.7%	92.3%	91.5%	90.4%
	Foreign	Cases	3,518	3,442	4,154	4,618	5,360
		Ratio	7.6%	7.3%	7.7%	8.5%	9.6%
	Total		46,146	47,308	54,010	54,551	55,602

(unit: cases)

Category			2012	2013	2014	2015	2016
Trademarks	Domestics	Cases	61,505	80,372	80,645	95,484	99,934
		Ratio	79.0%	80.3%	80.8%	83.2%	83.8%
	Foreign	Cases	16,398	19,721	19,146	19,262	19,321
		Ratio	21.0%	19.7%	19.2%	16.8%	16.2%
	Total		77,903	100,093	99,791	114,746	119,255
Total	Domestics	Cases	194,345	225,623	232,477	224,809	235,270
		Ratio	79.7%	80.4%	80.6%	81.9%	-
	Foreign	Cases	49,524	55,067	56,065	49,614	51,316
		Ratio	20.3%	19.6%	19.4%	18.1%	-
	Total		243,869	280,690	288,542	274,423	286,586

Note: Figures in parentheses include multiple applications.

Patent and utility model registrations by technological field in 2016

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Electrical machinery, apparatus, energy	6,862	1,921	8,783	262	26	288
Audio-visual technology	3,334	1,143	4,477	34	1	35
Telecommunications	2,276	607	2,883	16	1	17
Digital communication	3,518	1,946	5,464	2	-	2
Basic communication processes	493	287	780	-	-	-
Computer technology	4,591	2,212	6,803	28	18	46
IT methods for management	3,145	204	3,349	5	-	5
Semiconductors	3,458	2,797	6,255	19	8	27
Optics	2,129	1,209	3,338	23	13	36
Measurement	3,459	737	4,196	72	3	75

(unit: cases)

Classification	Patents			Utility models		
	Domestic	Foreign	Subtotal	Domestic	Foreign	Subtotal
Analysis of biological materials	216	69	285	-	-	-
Control	1,185	158	1,343	19	2	21
Medical technology	3,369	1,034	4,403	143	9	152
Organic fine chemistry	1,381	1,270	2,651	-	-	-
Biotechnology	1,638	588	2,226	1	-	1
Pharmaceuticals	1,320	652	1,972	2	-	2
Macromolecular chemistry, polymers	1,125	1,033	2,158	-	-	-
Food chemistry	1,603	100	1,703	16	2	18
Basic materials chemistry	1,357	969	2,326	5	1	6
Materials, metallurgy	2,275	965	3,240	1	-	1
Surface technology, coating	1,221	645	1,866	14	1	15
Micro-structural and nano-technology	131	29	160	-	-	-
Chemical engineering	1,877	540	2,417	43	4	47
Environmental technology	1,684	249	1,933	38	1	39
Handling	2,050	472	2,522	218	8	226
Machine tools	2,182	515	2,697	98	9	107
Engines, pumps, turbines	1,772	656	2,428	34	4	38
Textile and paper machines	949	314	1,263	18	4	22
Other special machines	2,966	666	3,632	178	6	184
Thermal processes and apparatus	1,862	246	2,108	83	5	88
Mechanical elements	1,558	622	2,180	82	6	88
Transport	5,654	839	6,493	272	4	276
Furniture, games	2,433	244	2,677	319	11	330
Other consumer goods	2,299	229	2,528	362	9	371
Civil engineering	5,022	308	5,330	287	4	291
Others	6	-	6	-	-	-
Total	82,400	26,475	108,875	2,694	160	2,854

Note: Figures for 2016 are preliminary.

Patent registrations in biotechnology

(unit: cases)

Category	2012		2013		2014		2015		2016	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	2,757	74.4%	3,294	76.9%	3,604	79.6%	2,917	77.3%	3,507	78.6%
Foreign	951	25.6%	989	23.1%	926	20.4%	857	22.7%	955	21.4%
Total	3,708	100%	4,283	100%	4,530	100%	3,774	100%	4,462	100%

Note1: Figures for 2016 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 3/00-3/34, 11/02-11/04; 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	2012		2013		2014		2015		2016	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	1,959	89.0%	1,860	91.0%	2,087	92.8%	2,023	92.9%	3,145	93.9%
Foreign	243	11.0%	185	9.0%	162	7.2%	154	7.1%	204	6.1%
Total	2,202	100%	2,045	100%	2,249	100%	2,177	100%	3,349	100%

Note1: Figures for 2016 are preliminary.

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

Registrations by resident of foreign countries in 2016

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
United States of America	842	6,666	1,283 (1,415)	132 (132)	3,315 (5,748)	1,938 (3,169)	14,176 (17,972)
Japan	3,302	6,674	1,183 (1,225)	42 (42)	1,672 (2,801)	934 (1,761)	13,807 (15,805)
China	200	948	239 (243)	4 (4)	2,283 (2,995)	587 (882)	4,261 (5,272)
Germany	495	1,838	204 (454)	250 (250)	209 (422)	1,105 (2,788)	4,101 (6,247)
France	97	926	71 (240)	169 (169)	276 (428)	654 (1,422)	2,193 (3,282)
Switzerland	92	552	105 (569)	464 (464)	191 (270)	640 (1,260)	2,044 (3,207)
United Kingdom	18	365	167 (194)	27 (27)	440 (907)	488 (1,287)	1,505 (2,798)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Netherlands	31	601	223 (304)	81 (81)	129 (195)	185 (455)	1,250 (1,667)
Italy	24	186	58 (165)	107 (107)	157 (242)	535 (1,027)	1,067 (1,751)
Taiwan	579	51	68 (68)	-	349 (477)	-	1,047 (1,175)
Sweden	91	338	106 (136)	30 (30)	43 (58)	153 (375)	761 (1,028)
Canada	32	174	28 (30)	2 (2)	234 (420)	10 (25)	480 (683)
Australia	8	66	19 (19)	-	103 (217)	176 (337)	372 (647)
Spain	2	63	14 (19)	5 (5)	60 (88)	211 (344)	355 (521)
Finland	15	189	22 (31)	9 (9)	18 (59)	96 (389)	349 (692)
Singapore	55	42	6 (6)	-	115 (231)	78 (164)	296 (498)
Austria	18	159	7 (12)	5 (5)	15 (21)	82 (189)	286 (404)
Belgium	11	121	29 (33)	4 (4)	26 (38)	80 (162)	271 (369)
Luxembourg	4	58	40 (40)	-	68 (98)	91 (191)	261 (391)
Israel	3	131	22 (22)	-	18 (31)	52 (81)	226 (268)
Denmark	15	49	18 (20)	2 (2)	28 (62)	98 (217)	210 (365)
Ireland	9	61	3 (3)	-	28 (58)	71 (101)	172 (232)
Norway	2	39	9 (16)	7 (7)	12 (49)	45 (173)	114 (286)
Thailand	-	6	9 (9)	-	97 (121)	1 (1)	113 (137)
India	2	69	1 (1)	-	12 (14)	28 (47)	112 (133)
New Zealand	1	15	5 (5)	-	39 (64)	46 (83)	106 (168)
Turkey	-	9	1 (3)	2 (2)	5 (5)	75 (141)	92 (160)
Russian Federation	-	15	6 (6)	-	7 (10)	57 (120)	85 (151)
Malaysia	-	13	4 (6)	2 (2)	61 (92)	1 (2)	81 (115)
Cayman Islands	9	25	-	-	42 (206)	4 (8)	80 (248)
Liechtenstein	2	14	21 (24)	3 (3)	1 (1)	31 (77)	72 (121)
Virgin Islands (British)	2	8	-	-	44 (94)	18 (52)	72 (156)
Brazil	-	16	2 (2)	-	47 (68)	-	65 (86)
Mexico	-	11	-	-	36 (50)	12 (14)	59 (75)
Barbados	-	26	10 (10)	-	4 (6)	6 (7)	46 (49)
Poland	1	9	- (2)	2 (2)	8 (16)	24 (62)	44 (92)
Cyprus	-	6	4 (5)	1 (1)	11 (18)	22 (65)	44 (95)
Bermuda	12	3	-	-	19 (23)	2 (4)	36 (42)
Hong Kong	2	-	9 (9)	-	25 (34)	-	36 (45)
Indonesia	1	1	-	-	26 (30)	2 (8)	30 (40)
Saudi Arabia	-	26	-	-	4 (4)	-	30 (30)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Viet Nam	1	-	-	-	12 (12)	15 (28)	28 (41)
Chile	-	3	-	-	25 (38)	-	28 (41)
Czech Republic	1	1	- (2)	2 (2)	4 (7)	19 (35)	27 (48)
Qatar	-	-	-	-	27 (60)	-	27 (60)
Monaco	-	1	-	-	18 (19)	7 (56)	26 (76)
Bulgaria	2	1	- (1)	1 (1)	2 (2)	19 (24)	25 (31)
Portugal	-	2	-	-	5 (11)	15 (21)	22 (34)
Greece	-	8	-	-	6 (23)	8 (15)	22 (46)
South Africa	-	10	-	-	10 (11)	-	20 (21)
Malta	-	10	-	-	4 (5)	5 (16)	19 (31)
Bahamas	-	16	-	-	3 (12)	-	19 (28)
Hungary	-	6	-	-	2 (2)	8 (15)	16 (23)
United Arab Emirates	1	-	-	-	11 (29)	4 (8)	16 (38)
Ukraine	1	2	- (5)	5 (5)	2 (2)	4 (6)	14 (21)
Slovakia	-	3	-	-	-	8 (10)	11 (13)
Philippines	1	-	1 (1)	-	1 (1)	6 (11)	9 (14)
Lithuania	-	1	- (1)	1 (1)	4 (6)	3 (5)	9 (14)
Mongolia	-	-	-	-	8 (13)	1 (3)	9 (16)
Iran	-	-	-	-	3 (3)	5 (10)	8 (13)
Sri Lanka	-	-	-	-	8 (9)	-	8 (9)
Estonia	-	3	1 (1)	-	-	3 (4)	7 (8)
Belize	2	-	-	-	5 (8)	-	7 (10)
Macao	-	-	1 (1)	-	6 (6)	-	7 (7)
Mauritius	-	1	-	-	6 (8)	-	7 (9)
Curacao	-	-	-	-	-	6 (9)	6 (9)
Romania	-	-	-	-	-	6 (10)	6 (10)
Slovenia	-	1	- (1)	1 (1)	1 (1)	3 (6)	6 (10)
Cuba	-	3	-	-	3 (3)	-	6 (6)
Samoa	-	-	-	-	6 (13)	-	6 (13)
Iceland	-	-	-	-	-	5 (15)	5 (15)
Colombia	-	-	-	-	4 (6)	1 (1)	5 (7)
Georgia	-	-	-	-	-	4 (4)	4 (4)
Brunei Darussalam	-	-	-	-	4 (4)	-	4 (4)
Ecuador	-	-	-	-	4 (4)	-	4 (4)

(unit: cases)

Countries	Patent & Utility models		Designs		Trademarks		Total
	Domestic	PCT	Domestic	Hague	Domestic	Madrid	
Jersey (U.K.)	-	-	-	-	4 (4)	-	4 (4)
Croatia	-	-	-	-	2 (2)	1 (2)	3 (4)
Morocco	-	2	-	-	-	1 (1)	3 (3)
Seychelles	-	-	-	-	3 (3)	-	3 (3)
Antigua and Barbuda	-	-	-	-	-	2 (2)	2 (2)
Belarus	-	-	-	-	-	2 (4)	2 (4)
Guernsey	-	-	-	-	-	2 (4)	2 (4)
Kazakhstan	-	-	-	-	-	2 (4)	2 (4)
Latvia	-	-	-	-	-	2 (2)	2 (2)
Montenegro	-	-	-	-	-	2 (6)	2 (6)
Panama	-	1	-	-	-	1 (2)	2 (3)
Serbia	-	1	-	-	-	1 (2)	2 (3)
Argentina	-	-	-	-	2 (3)	-	2 (3)
Dominican Republic	-	-	-	-	2 (2)	-	2 (2)
Egypt	1	-	-	-	1 (1)	-	2 (2)
Jordan	-	1	-	-	1 (3)	-	2 (4)
Kuwait	-	-	-	-	2 (2)	-	2 (2)
Lebanon	-	-	-	-	2 (9)	-	2 (9)
Syrian Arab Republic	-	-	-	-	2 (2)	-	2 (2)
Uzbekistan	-	1	-	-	1 (1)	-	2 (2)
San Marino	-	-	-	-	-	1 (3)	1 (3)
Afghanistan	-	-	1 (1)	-	-	-	1 (1)
Armenia	-	1	-	-	-	-	1 (1)
Netherlands Antilles	-	-	-	-	1 (1)	-	1 (1)
Libya	-	-	-	-	1 (1)	-	1 (1)
Paraguay	-	-	-	-	1 (3)	-	1 (3)
Saint Vincent and the Grenadines	-	-	-	-	1 (1)	-	1 (1)
Yemen	-	-	-	-	1 (1)	-	1 (1)
Others	-	-	-	-	-	13 (26)	13 (26)

Trials and appeals

Trials and appeals requested

(unit: cases)

Category		2012	2013	2014	2015	2016
Appeal against examiner's decision to reject application	Patents	8,887	7,019	6,123	6,093	5,470
	Utility models	190	147	116	112	200
	Designs	141 (141)	124 (135)	154 (156)	119	109
	Trademarks	1,854 (2,899)	1,907 (2,776)	1,816 (2,656)	1,559 (2,293)	1,626 (2,284)
	Subtotal	11,072 (12,117)	9,197 (10,077)	8,209 (9,051)	7,883 (8,617)	7,405 (8,063)
Appeals against examiner's decision to dismiss amendment	Patents	3	1	-	-	1
	Utility models	-	-	-	-	-
	Designs	4 (4)	12 (12)	11 (11)	7 (15)	5
	Trademarks	1 (1)	4 (8)	1 (1)	6 (7)	5 (11)
	Subtotal	8 (8)	17 (21)	12 (12)	13 (22)	11 (17)
Appeals against examiner's decision of cancellation	Patents	-	1	-	-	-
	Utility models	9	2	1	1	-
	Designs	10 (10)	2 (1)	4 (4)	4	2
	Trademarks	-	-	-	-	-
	Subtotal	19 (19)	5 (5)	5 (5)	5	2
Trials for correction	Patents	131	142	140	134	145
	Utility models	9	6	6	6	9
	Designs	-	-	-	-	-
	Trademarks	-	-	-	-	-
	Subtotal	140 (140)	148 (148)	146 (146)	140	154
Invalidation	Patents	664	573	687	2,194	548
	Utility models	101	96	64	80	50
	Designs	260 (267)	191 (201)	254 (255)	209 (210)	247
	Trademarks	423 (493)	443 (544)	467 (550)	584 (658)	492 (553)
	Subtotal	1,448 (1,525)	1,303 (1,414)	1,472 (1,556)	3,067 (3,142)	1,337 (1,398)

(unit: cases)

Category		2012	2013	2014	2015	2016
Trials to confirm scope of IP right	Patents	354	375	385	691	632
	Utility models	93	84	64	53	47
	Designs	154 (155)	125 (126)	149 (149)	138	149
	Trademarks	80 (122)	83 (186)	90 (119)	93 (132)	101 (170)
	Subtotal	681 (724)	667 (771)	688 (717)	975 (1,014)	929 (998)
Cancellation trials on trademark registration	Patents	-	-	-	-	-
	Utility models	-	1	-	-	-
	Designs	-	-	-	-	-
	Trademarks	1,379 (1,686)	1,676 (2,069)	1,449 (1,826)	1,903 (2,305)	2,122 (2,526)
	Subtotal	1,379 (1,686)	1,677 (2,070)	1,449 (1,826)	1,903 (2,305)	2,122 (2,526)
Grand total	Patents	10,039	8,111	7,335	9,112	6,796
	Utility models	402	336	251	252	306
	Designs	569 (577)	454 (476)	572 (575)	477 (486)	512
	Trademarks	3,737 (5,201)	4,113 (5,583)	3,823 (5,152)	4,145 (5,395)	4,346 (5,544)
	Grand total	14,747 (16,219)	13,014 (14,506)	11,981 (13,313)	13,986 (15,245)	11,960 (13,158)

Note: Figures in parentheses include multiple applications.

· 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

* 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		2012		2013		2014		2015		2016	
		Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio	Acceptance	Ratio
Ex partes	Patents	1,473	33.3%	1,394	32.1%	1,190	27.8%	1,046	30.4%	1,036	29.0%
	Utility models	61	30.2%	65	38.7%	29	25.0%	29	27.6%	32	33.0%
	Designs	50 (50)	37.3% (37.0%)	37 (37)	30.6% (30.6%)	66 (77)	42.0% (45.8%)	46 (54)	35.4% (39.1%)	50	43.1%
	Trademarks	1,025 (1,652)	53.1% (56.6%)	1,062 (1,825)	52.9% (58.1%)	864 (1,321)	49.3% (53.4%)	844 (1,368)	52.4% (58.7%)	655 (1,053)	48.4% (53.1%)
	Subtotal	2,609 (3,236)	39.0% (42.2%)	2,558 (3,321)	38.6% (42.8%)	2,149 (2,617)	34.0% (37.1%)	1,965 (2,497)	37.2% (41.5%)	1,773 (2,171)	41.5% (37.6%)
Inter partes	Patents	576	49.5%	463	45.6%	457	50.7%	687	38.7%	526	42.2%
	Utility models	105	47.3%	95	47.0%	52	38.8%	66	56.9%	52	50.5%
	Designs	173 (174)	48.7% (48.9%)	160 (176)	46.5% (48.9%)	167 (169)	51.1% (51.4%)	161 (161)	47.5% (47.5%)	164 (166)	54.8% (55.1%)
	Trademarks	1,194 (1,376)	61.6% (59.6%)	1,321 (1,579)	66.1% (66.3%)	1,218 (1,490)	65.1% (66.3%)	1,401 (1,653)	69.0% (68.1%)	1,436 (1,691)	65.2% (64.0%)
	Subtotal	2,048 (2,231)	55.7% (55.1%)	2,039 (2,313)	57.3% (58.4%)	1,894 (2,168)	58.6% (60.0%)	2,315 (2,567)	54.4% (55.1%)	2,178 (2,435)	56.6% (56.7%)
Grand total	Patents	2,049	36.7%	1,857	34.7%	1,647	31.7%	1,733	33.2%	1,562	32.4%
	Utility models	166	39.2%	160	43.2%	81	32.4%	95	43.0%	84	42.0%
	Designs	223 (224)	45.6% (45.6%)	197 (213)	42.4% (44.3%)	233 (246)	48.1% (49.5%)	207 (215)	44.1% (45.1%)	214 (216)	51.6% (51.8%)
	Trademarks	2,219 (3,028)	57.4% (57.9%)	2,383 (3,404)	59.5% (61.6%)	2,082 (2,811)	57.4% (59.5%)	2,245 (3,021)	61.7% (63.5%)	2,091 (2,744)	58.8% (59.3%)
	Grand Total	4,657 (5,467)	44.9% (46.6%)	4,597 (5,634)	45.1% (48.0%)	4,043 (4,785)	42.3% (44.9%)	4,280 (5,064)	44.8% (47.5%)	3,951 (4,606)	43.9% (45.8%)

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		2012	2013	2014	2015	2016
Patents	Domestics	4,848	4,098	3,814	5,809	3,891
	Foreign	5,191	4,013	3,521	3,303	2,905
Utility models	Domestics	396	329	244	240	301
	Foreign	6	7	7	12	5
Designs	Domestics	515	419	514	432	459
	Foreign	62	57	61	54	53
Trademarks	Domestics	2,528	2,957	2,869	3,057	3,014
	Foreign	2,673	2,626	2,283	2,338	2,530
Total		16,219	14,506	13,313	15,245	13,158

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

Income and expenditures / KIPO staff

Income

(unit: USD)

Category	2012	2013	2014	2015	2016
Income from fees	345,367,273	375,804,545	394,844,545	414,455,455	394,988,244
Income carried over from the previous year	34,099,091	28,054,545	33,515,455	31,426,364	22,215,525
Internal income and others	8,350,000	15,750,000	15,640,000	49,564,545	93,975,976
Total	387,816,364	419,609,091	444,000,000	495,843,636	511,179,745

Expenditures

(unit: USD)

Category	2012	2013	2014	2015	2016
Non-personnel resources (projects)	228,000,909	236,025,455	263,656,364	276,374,545	363,328,537
Personnel resources	95,822,727	100,612,727	102,949,091	109,799,090	123,341,800
Deposit for special fund	41,818,182	52,727,273	48,370,000	91,670,000	24,509,407
Total	365,641,818	389,365,455	414,975,455	477,843,636	511,179,745

KIPO staff

(unit: number of positions)

Category	2012	2013	2014	2015	2016	
Examiners	Patent and utility models	711	710	724	741	734
	Industrial designs and Trademarks	145	148	151	159	162
Trial judges	88	88	90	95	95	
Administrative staff	635	622	622	605	601	
Total	1,579	1,568	1,587	1,600	1,592	

Advanced degrees/special certificates possessed by KIPO staff at the time of their hiring

(unit: number of staff)

Category	Ph. D	Master's Degrees	Patent attorney certificate only	Lawyer certificate only	Professional Engineer certificate only
Examiners	Patent and utility models	314	35	19	19
	Trademark	3	1	5	0
	Industrial designs	6	2	1	0
	Total	323	38	25	7