

# Appendix

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## Applications

### Applications by IPR type

IPR type	2002	2003	2004	2005	2006	Percentage change for 2006
Patents	106,136	118,652	140,115	160,921	166,189	3.3
Utility models	39,193	40,825	37,753	37,175	32,908	▽ 11.5
Subtotal	145,329	159,477	177,868	198,096	199,097	0.5
Industrial designs	37,587 (39,952)	37,607 (39,346)	41,184 (42,879)	45,222 (46,615)	51,039 (52,879)	12.9 (13.4)
Trademarks	107,876 (144,678)	108,917 (148,691)	108,464 (147,319)	115,889 (156,270)	122,384 (164,432)	5.6 (5.2)
Total	290,792 (329,959)	306,001 (347,514)	327,516 (368,066)	359,207 (400,981)	372,520 (416,408)	3.7 (3.8)

Note: Figures in parentheses include multiple applications.

### PCT applications

Year	2002	2003	2004	2005	2006
Number of applications	2,511	2,942	3,565	4,690	5,919
Growth rate (%)	8.5	17.2	21.2	31.6	26.2

Note: Based on KIPO statistics.

### International trademark applications under the Madrid Protocol

Period	Office of origin	Designated office
2003 April to June	18	116
2003 July to Dec.	90	1,382
2004 Jan. to June	66	2,072
2004 July to Dec.	75	2,082
2005 Jan. to June	77	2,645
2005 July to Dec.	77	4,054
2006 Jan. to June	84	3,366
2006 July to Dec.	124	5,117
Total	611	21,604

Note: KIPO started receiving International trademark applications under the Madrid Protocol on April 10, 2003.

## Applications

### Comparison of domestic and foreign applications

(unit: cases, %)

		Domestic		Foreign		Total
		Cases	%	Cases	%	
Patents	2002	76,570	72.1	29,566	27.9	106,136
	2003	90,313	76.1	28,339	23.9	118,652
	2004	105,250	75.1	34,865	24.9	140,115
	2005	122,188	75.9	38,733	24.1	160,921
	2006	125,476	75.5	40,713	24.5	166,189
Utility models	2002	38,662	98.6	531	1.4	39,193
	2003	40,174	98.4	651	1.6	40,825
	2004	37,167	98.4	586	1.6	37,753
	2005	36,534	98.3	641	1.7	37,175
	2006	32,193	97.8	715	2.2	32,908
Industrial designs	2002	35,399 (37,729)	94.2 (94.4)	2,188 (2,223)	5.8 (15.6)	37,587 (39,952)
	2003	34,994 (36,689)	93.1 (93.2)	2,613 (2,657)	6.9 (6.8)	37,607 (39,346)
	2004	38,041 (39,656)	92.4 (92.5)	3,143 (3,223)	7.6 (7.5)	41,184 (42,879)
	2005	41,918 (43,247)	92.7 (92.8)	3,304 (3,368)	7.3 (7.2)	45,222 (46,615)
	2006	48,018 (49,766)	94.1 (94.1)	3,021 (3,113)	5.9 (5.9)	51,039 (52,879)
Trademarks	2002	90,014 (116,760)	83.4 (80.7)	17,862 (27,918)	16.6 (19.3)	107,876 (144,678)
	2003	92,368 (122,080)	84.8 (82.1)	16,549 (26,611)	15.2 (17.9)	108,917 (148,691)
	2004	91,935 (119,836)	84.8 (81.3)	16,529 (27,483)	15.2 (16.7)	108,464 (147,319)
	2005	99,435 (129,635)	85.8 (83.0)	16,454 (26,635)	14.2 (17.0)	115,889 (156,270)
	2006	105,544 (136,590)	86.2 (83.1)	16,840 (27,842)	13.8 (16.9)	122,384 (164,432)
Total	2002	240,645 (269,721)	82.7 (81.7)	50,147 (60,238)	17.3 (18.3)	290,792 (329,959)
	2003	257,849 (289,256)	84.3 (83.2)	48,152 (58,258)	15.7 (16.8)	306,001 (347,514)
	2004	272,393 (301,909)	83.2 (82.0)	55,123 (66,157)	16.8 (18.0)	327,516 (368,066)
	2005	300,075 (331,604)	83.5 (82.7)	59,132 (69,377)	16.5 (17.3)	359,207 (400,981)
	2006	311,231 (344,025)	83.5 (82.6)	61,289 (72,383)	16.5 (17.4)	372,520 (416,408)

Note: Figures in parentheses include multiple applications.

## Applications

### Patent applications by technological field

Classification	Domestic	Percentage change for 2006	Foreign	Percentage change for 2006	Total	Percentage change for 2006
Agriculture	1,327 (1.1%)	23.9	136 (0.3%)	▽ 18.6	1,463 (0.9%)	18.2
Foodstuffs and tobacco	2,430 (1.9%)	7.5	257 (0.6%)	▽ 7.9	2,687 (1.6%)	5.8
Personal and domestic articles	3,801 (3.0%)	1.4	415 (1.0%)	▽ 4.2	4,216 (2.5%)	0.8
Health and amusement	3,209 (2.6%)	23.5	1,577 (3.9%)	14.5	4,786 (2.9%)	20.4
Preparations for medical, dental, or toilet purposes	1,718 (1.4%)	15.5	1,776 (4.4%)	12.8	3,494 (2.1%)	14.1
Separating and mixing	2,550 (2.0%)	21.7	877 (2.2%)	7.5	3,427 (2.1%)	17.7
Shaping	2,001 (1.6%)	15.6	710 (1.7%)	23.5	2,711 (1.6%)	17.6
Grinding and polishing	2,597 (2.1%)	28.9	1,004 (2.5%)	17.2	3,601 (2.2%)	25.4
Printing	869 (0.7%)	▽ 10.8	398 (1.0%)	11.8	1,267 (0.8%)	▽ 4.7
Transporting	8,338 (6.6%)	15.3	1,632 (4.0%)	8.3	9,970 (6.0%)	14.1
Microstructural technology and nanotechnology	277 (0.2%)	18.9	63 (0.2%)	▽ 3.1	340 (0.2%)	14.1
Chemistry in general	1,973 (1.6%)	2.5	664 (1.6%)	0.0	2,637 (1.6%)	1.9
Organic chemistry	1,020 (0.8%)	20.3	2,678 (6.6%)	10.1	3,698 (2.2%)	12.7
Organic macromolecular compounds	1,451 (1.2%)	4.9	1,694 (4.2%)	10.4	3,145 (1.9%)	7.8
Dyes, petroleum, and animal and vegetable oils	1,432 (1.1%)	▽ 5.7	1,122 (2.8%)	4.2	2,554 (1.5%)	▽ 1.6
Biochemistry	1,187 (0.9%)	15.5	530 (1.3%)	3.3	1,717 (1.0%)	11.4
Metallurgy	1,192 (0.9%)	14.4	777 (1.9%)	6.4	1,969 (1.2%)	11.1
Textiles and flexible materials	1,588 (1.3%)	▽ 21.8	453 (1.1%)	▽ 3.2	2,041 (1.2%)	▽ 18.3
Paper	174 (0.1%)	▽ 4.4	109 (0.3%)	▽ 19.9	283 (0.2%)	▽ 11.0
Building	6,579 (5.2%)	8.5	371 (0.9%)	12.8	6,950 (4.2%)	8.7
Earth or rock drilling, and mining	199 (0.2%)	14.4	25 (0.1%)	▽ 7.4	224 (0.1%)	11.4
Engines and pumps	2,367 (1.9%)	18.4	903 (2.2%)	8.3	3,270 (2.0%)	15.4
Engineering in general	2,290 (1.8%)	22.5	792 (1.9%)	17.2	3,082 (1.9%)	21.1
Lighting and heating	4,747 (3.8%)	0.3	491 (1.2%)	3.2	5,238 (3.2%)	0.5
Weapons and blasting	109 (0.1%)	▽ 14.8	44 (0.1%)	33.3	153 (0.1%)	-5.0
Instruments	10,643 (8.5%)	11.5	3,609 (8.9%)	5.5	14,252 (8.6%)	9.9
Horology and computing	11,071 (8.8%)	9.7	2,934 (7.2%)	▽ 11.0	14,005 (8.4%)	4.6
Educating and information storage	6,215 (5.0%)	▽ 4.5	2,063 (5.1%)	▽ 5.0	8,278 (5.0%)	▽ 4.6
Nucleonics	162 (0.1%)	63.6	54 (0.1%)	0.0	216 (0.1%)	41.2
Electric elements and electric techniques	22,063 (17.6%)	▽ 3.6	7,183 (17.6%)	10.4	29,246 (17.6%)	▽ 0.5
Electric circuitry and electric communication techniques	17,747 (14.1%)	▽ 14.6	4,621 (11.4%)	▽ 6.0	22,368 (13.5%)	▽ 12.9
Others	2,150 (1.7%)	13.5	751 (1.8%)	75.1	2,901 (1.7%)	24.8
<b>Total</b>	<b>125,476 (100.0%)</b>		<b>40,713 (100.0%)</b>		<b>166,189 (100.0%)</b>	<b>3.3</b>

Note: Others are non-classified applications.

## Applications

### Patent applications in biotechnology

	2002		2003		2004		2005		2006	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	2,025	66.9%	2,045	66.1%	2,026	62.5%	2,049	67.9%	2,606	71.1%
Foreign	1,000	33.1%	1,047	33.9%	1,215	37.5%	970	32.1%	1,058	28.9%
<b>Total</b>	<b>3,025</b>		<b>3,092</b>		<b>3,241</b>		<b>3,019</b>		<b>3,664</b>	

Note: 1. Categories classified as biotechnology in the Eight 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.  
2. The figures for 2006 are preliminary estimates.

### Patent applications in business methods

	2002		2003		2004		2005		2006	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	3,616	85.3%	4,564	89.2%	4,542	87.3%	4,205	86.4%	5,106	88.9%
Foreign	623	14.7%	553	10.8%	659	12.7%	663	13.6%	636	11.1%
<b>Total</b>	<b>4,239</b>		<b>5,117</b>		<b>5,201</b>		<b>4,868</b>		<b>5,742</b>	

Note: 1. Based the Eighth Edition of the International Patent Classification.  
2. The figures for 2006 are preliminary estimates.

## Applications

### Applications by residents of foreign countries in 2006

Residence	Patents	Utility models	Industrial designs	Trademarks	Total
Antilles	1	0	0	13	14
Argentina	1	0	0	14	15
Aruba	0	0	0	3	3
Australia	241	6	12	173	432
Austria	104	1	3	48	156
Bahamas	9	0	4	2	15
Bangladesh	0	0	0	2	2
Barbados	5	0	0	11	16
Belarus	2	0	2	0	4
Belgium	250	0	10	39	299
Belize	3	0	0	0	3
Bermuda	4	0	0	40	44
Brazil	33	0	1	26	60
Bulgaria	2	0	0	3	5
Canada	308	2	3	228	541
Cayman Islands	8	0	0	18	26
Chile	3	0	0	41	44
China	197	55	42	329	623
Colombia	0	0	0	13	13
Croatia	3	0	0	0	3
Cuba	5	0	0	6	11
Cyprus	4	0	0	11	15
Czech Republic	12	0	0	1	13
Denmark	147	1	13	50	211
Egypt	1	0	0	1	2
Estonia	1	0	1	0	2
Finland	551	0	49	28	628
France	1,402	0	115	743	2,260
Germany	3,284	6	144	848	4,282
Greece	6	0	0	10	16
Hong Kong	24	1	18	194	237
Hungary	27	0	1	10	38
India	83	0	2	26	111
Indonesia	0	0	0	25	25
Iran	1	0	0	2	3
Ireland	45	0	5	42	92
Israel	158	1	7	60	226
Italy	350	6	97	359	812
Japan	17,604	37	1,400	4,277	23,318
Jordan	0	0	0	2	2
Kuwait	0	0	0	3	23
Latvia	2	0	0	0	2
Lebanon	2	0	0	1	3

## Applications

Residence	Patents	Utility models	Industrial designs	Trademarks	Total
Liechtenstein	32	0	20	8	60
Luxembourg	46	0	1	72	119
Macao, China	0	0	0	3	3
Malaysia	9	1	5	52	67
Mauritius	2	0	0	1	3
Mexico	11	0	0	40	51
Monaco	5	0	2	30	37
Netherlands	2,059	0	72	272	2,403
New Zealand	25	0	8	60	93
Norway	67	0	4	30	101
Pakistan	0	0	0	2	2
Panama	1	0	0	4	5
Paraguay	0	0	0	2	2
Philippines	1	1	0	17	19
Poland	6	0	1	5	12
Portugal	7	0	0	15	22
Puerto rico	3	0	0	4	7
Qatar	0	0	0	2	2
Russian Federation	33	0	0	6	39
San Marino	0	0	1	4	5
Saudi Arabia	6	0	0	20	26
Seychelles	2	0	0	6	8
Singapore	152	1	30	127	310
Slovakia	2	0	0	0	2
Slovenia	6	0	0	2	8
South Africa	20	0	4	18	42
Spain	90	0	19	71	180
Sri Lanka	2	0	0	2	4
Sweden	664	1	17	120	802
Switzerland	943	0	77	572	1,592
Tailand	4	0	0	33	37
Taiwan	633	495	51	366	1,545
Turkey	11	0	0	21	32
United Arab Emirates	3	0	0	34	37
United Kingdom	577	1	43	663	1,284
U.S.A.	10,368	96	732	6,302	17,498
Uruguay	0	0	0	2	2
Vanuatu	1	0	0	3	4
Vietnam	0	0	0	12	12
British Virgin Islands	33	2	4	119	158
Others	6	1	1	16	24
<b>Total</b>	<b>40,713</b>	<b>715</b>	<b>3,021</b>	<b>16,840</b>	<b>61,289</b>

## Examinations

### Patents and utility models

	Year	First action				Final decisions				
		Approval of registration	Notice of preliminary rejection or amendment	Other notices	Withdrawal or abandonment	Total	Approval of registration	Rejection or cancellation	Withdrawal or abandonment or annulment or rejection	Total
Patents	2002	19,520	56,881	429	2,584	79,414	49,478	24,545	3,612	77,635
	2003	19,505	71,100	426	2,402	93,433	48,047	28,077	3,856	79,980
	2004	19,952	75,085	408	2,959	98,404	54,551	31,424	4,422	90,397
	2005	21,860	106,096	410	2,749	131,115	78,397	36,946	2,749	118,092
	2006	39,441	151,366	913	3,678	195,398	127,301	43,657	3,678	174,636
Utility models	2002	38,170	10,449	8	680	49,307	44,976	2,421	4,574	51,971
	2003	37,797	10,241	10	530	48,578	43,308	1,054	4,285	48,647
	2004	34,263	18,345	119	662	53,389	43,848	5,536	4,146	53,330
	2005	31,249	17,900	63	105	49,317	41,512	4,559	3,833	49,904
	2006	28,187	16,999	82	2	45,270	37,644	3,291	4,015	44,950

Note: The figures for 2006 are preliminary estimates.

### Industrial designs and trademarks

	Year	First action			Final decisions			
		Publication or approval of registration	Notice of preliminary rejection	Other notices	Total	Approval of registration	Rejection	Total
Industrial designs	2002	24,131 [25,390]	14,471 [15,199]	29 [29]	38,631 [40,618]	32,154 [33,721]	5,555 [5,756]	37,709 [39,477]
	2003	25,746 [27,443]	14,292 [14,919]	56 [57]	40,094 [42,419]	35,170 [37,446]	4,960 [5,234]	40,130 [42,680]
	2004	26,423 [27,502]	14,081 [14,541]	37 [37]	40,541 [42,080]	36,308 [37,765]	4,715 [4,850]	41,023 [42,615]
	2005	26,760 [27,505]	14,030 [14,452]	30 [30]	40,820 [41,987]	37,226 [38,369]	4,707 [4,828]	41,933 [43,197]
	2006	30,204 [31,335]	16,053 [16,910]	124 [124]	46,381 [48,369]	40,562 [42,183]	4,814 [5,028]	45,376 [47,211]
Trade-marks	2002	50,100 [67,635]	49,548 [67,969]	372 [437]	100,020 [136,041]	69,007 [99,415]	30,057 [37,320]	99,064 [136,735]
	2003	62,262 [79,633]	56,207 [77,762]	327 [405]	118,796 [157,800]	79,965 [110,815]	32,954 [40,415]	112,919 [151,230]
	2004	58,067 [75,389]	57,257 [79,441]	886 [1,317]	116,210 [156,147]	81,793 [113,691]	33,178 [40,492]	114,971 [154,183]
	2005	61,382 [80,128]	62,101 [88,864]	1,409 [2,008]	124,892 [171,000]	86,036 [121,552]	39,467 [45,002]	125,503 [166,554]
	2006	68,253 [88,931]	58,809 [81,126]	1,395 [1,988]	128,457 [172,045]	92,916 [130,175]	32,969 [40,351]	125,885 [170,526]

Note: Figures in parentheses include multiple applications.

## Examinations

### Pendency period of patents and trademarks

#### Average first action pendency period for patents

Year	2002	2003	2004	2005	2006
Patents	22.6	22.1	21.0	17.6	9.8

(unit: month)

#### Average total pendency period for patents

Year	2002	2003	2004	2005	2006
Patents	28.5	30.0	29.9	26.6	19.7

(unit: month)

#### Average first action pendency period for trademarks

Year	2002	2003	2004	2005	2006
Trademarks	11.9	10.7	9.6	7.3	5.9

(unit: month)

#### Average total pendency period for trademarks

Year	2002	2003	2004	2005	2006
Trademarks	15.3	14.6	12.3	10.6	8.9

(unit: month)

### International search reports and International preliminary examination reports

Year	ISRs	IPERs
2002	2,148	1,135
2003	2,315	1,310
2004	2,913	1,035
2005	3,649	842
2006	4,753	639

## Registrations

### Patents and utility models

		First action				Total	Final decisions			
		Approval of registration	Notice of preliminary rejection or amendment	Other notices	Withdrawal or abandonment		Approval of registration	Rejection or cancellation	Withdrawal or abandonment or annulment or rejection	Total
Patents	2002	19,520	56,881	429	2,584	79,414	49,478	24,545	3,612	77,635
	2003	19,505	71,100	426	2,402	93,433	48,047	28,077	3,856	79,980
	2004	19,952	75,085	408	2,959	98,404	54,551	31,424	4,422	90,397
	2005	21,860	106,096	410	2,749	131,115	78,397	36,946	2,749	118,092
	2006	39,441	151,366	913	3,678	195,398	127,301	43,657	3,678	174,636
Utility models	2002	38,170	10,449	8	680	49,307	44,976	2,421	4,574	51,971
	2003	37,797	10,241	10	530	48,578	43,308	1,054	4,285	48,647
	2004	34,263	18,345	119	662	53,389	43,848	5,536	4,146	53,330
	2005	31,249	17,900	63	105	49,317	41,512	4,559	3,833	49,904
	2006	28,187	16,999	82	2	45,270	37,644	3,291	4,015	44,950

Note: The figures for 2006 are preliminary estimates.

### Industrial designs and trademarks

		First action				Total	Final decisions		
		Publication or approval of registration	Notice of preliminary rejection	Other notices	Approval of registration		Rejection	Total	
Industrial designs	2002	24,131 [25,390]	14,471 [15,199]	29 [29]	38,631 [40,618]	32,154 [33,721]	5,555 [5,756]	37,709 [39,477]	
	2003	25,746 [27,443]	14,292 [14,919]	56 [57]	40,094 [42,419]	35,170 [37,446]	4,960 [5,234]	40,130 [42,680]	
	2004	26,423 [27,502]	14,081 [14,541]	37 [37]	40,541 [42,080]	36,308 [37,765]	4,715 [4,850]	41,023 [42,615]	
	2005	26,760 [27,505]	14,030 [14,452]	30 [30]	40,820 [41,987]	37,226 [38,369]	4,707 [4,828]	41,933 [43,197]	
	2006	30,204 [31,335]	16,053 [16,910]	124 [124]	46,381 [48,369]	40,562 [42,183]	4,814 [5,028]	45,376 [47,211]	
Trade-marks	2002	50,100 [67,635]	49,548 [67,969]	372 [437]	100,020 [136,041]	69,007 [99,415]	30,057 [37,320]	99,064 [136,735]	
	2003	62,262 [79,633]	56,207 [77,762]	327 [405]	118,796 [157,800]	79,965 [110,815]	32,954 [40,415]	112,919 [151,230]	
	2004	58,067 [75,389]	57,257 [79,441]	886 [1,317]	116,210 [156,147]	81,793 [113,691]	33,178 [40,492]	114,971 [154,183]	
	2005	61,382 [80,128]	62,101 [88,864]	1,409 [2,008]	124,892 [171,000]	86,036 [121,552]	39,467 [45,002]	125,503 [166,554]	
	2006	68,253 [88,931]	58,809 [81,126]	1,395 [1,988]	128,457 [172,045]	92,916 [130,175]	32,969 [40,351]	125,885 [170,526]	

## Registrations

### Registrations by IPR type

IPR type	2002	2003	2004	2005	2006	Percentage change for 2006
Patents	45,298	44,165	49,068	73,509	120,782	64.3
Utility models	39,957	37,272	34,182	32,716	29,736	▽ 9.1
Subtotal	85,255	81,437	83,250	106,225	150,518	41.7
Industrial designs	27,235	28,380	31,021	33,991	34,201	0.6
Trademarks	40,588	46,023	51,104	57,872	65,818	13.7
Total	153,078	155,840	165,375	198,088	250,537	26.5

Note: Trademark registration renewals are excluded.

### Comparison of domestic and foreign registrations

		Domestic		Foreign		Total
		Cases	%	Cases	%	Cases
Patents	2002	30,175	66.6	15,123	33.4	45,298
	2003	30,525	69.1	13,640	30.9	44,165
	2004	35,284	71.9	13,784	28.1	49,068
	2005	53,416	72.7	20,093	27.3	73,509
	2006	89,297	73.9	31,485	26.1	120,782
Utility models	2002	39,417	98.6	540	1.4	39,957
	2003	36,597	98.2	675	1.8	37,272
	2004	33,629	91.3	553	8.7	34,182
	2005	32,104	98.1	612	1.9	32,716
	2006	29,031	97.6	705	2.4	29,736
Industrial designs	2002	25,318	93.0	1,917	7.1	27,235
	2003	25,680	90.5	2,700	9.5	28,380
	2004	28,311	91.3	2,710	8.7	31,021
	2005	31,039	91.3	2,952	8.7	33,991
	2006	31,498	92.1	2,703	7.9	34,201
Trademarks	2002	32,678	80.5	7,910	19.5	40,588
	2003	37,718	82.0	8,305	18.0	46,023
	2004	42,325	82.8	8,779	17.2	51,104
	2005	49,751	86.0	8,121	14.0	57,872
	2006	52,824	80.3	12,994	19.7	65,818
	Total	2002	127,588	83.3	25,490	16.7
	2003	130,520	83.8	25,320	16.2	155,840
	2004	139,549	84.4	25,826	15.6	165,375
	2005	166,310	84.0	31,778	16.0	198,088
	2006	202,650	80.9	47,887	19.1	250,537

## Registrations

### Patent registrations by technological field

Classification	Domestic	Percentage change for 2006	Foreign	Percentage change for 2006	Total	Percentage change for 2006
Agriculture	581 (1.1%)	26.3	97 (0.5%)	12.8	678 (0.9%)	24.2
Foodstuffs and tobacco	1,355 (2.5%)	63.4	134 (0.7%)	36.7	1,489 (2.0%)	60.6
Personal and domestic articles	1,397 (2.6%)	52.3	264 (1.3%)	30.0	1,661 (2.3%)	48.3
Health and amusement	1,139 (2.1%)	64.1	513 (2.6%)	21.3	1,652 (2.2%)	47.9
Preparations for medical, dental, or toilet purposes	831 (1.6%)	83.0	595 (3.0%)	66.2	1,426 (1.9%)	75.6
Separating and mixing	1,370 (2.6%)	101.8	538 (2.7%)	46.2	1,908 (2.6%)	82.2
Shaping	1,266 (2.4%)	45.4	471 (2.3%)	60.8	1,737 (2.4%)	49.2
Grinding and polishing	1,193 (2.2%)	36.2	503 (2.5%)	58.2	1,696 (2.3%)	42.0
Printing	589 (1.1%)	39.6	276 (1.4%)	60.5	865 (1.2%)	45.6
Transporting	4,751 (8.9%)	66.5	1,137 (5.7%)	57.9	5,888 (8.0%)	64.7
Microstructural technology and nanotechnology	90 (0.2%)	60.7	10	100.0	100 (0.1%)	63.9
Chemistry in general	1,485 (2.8%)	32.9	416 (2.1%)	49.1	1,901 (2.6%)	36.2
Organic chemistry	671 (1.3%)	39.8	1,266 (6.3%)	58.1	1,937 (2.6%)	51.2
Organic macromolecular compounds	1,081 (2.0%)	79.6	868 (4.3%)	74.6	1,949 (2.7%)	77.3
Dyes, petroleum, and animal and vegetable oils	846 (1.6%)	101.4	523 (2.6%)	45.3	1,369 (1.9%)	75.5
Biochemistry	656 (1.2%)	▽ 6.4	276 (1.4%)	49.2	932 (1.3%)	5.2
Metallurgy	762 (1.4%)	18.0	482 (2.4%)	78.5	1,244 (1.7%)	35.8
Textiles and flexible materials	1,083 (2.0%)	45.2	358 (1.8%)	64.2	1,441 (2.0%)	49.5
Paper	134 (0.3%)	112.7	108 (0.5%)	120.4	242 (0.3)	116.1
Building	2,387 (4.5%)	64.3	218 (1.1%)	31.3	2,605 (3.5%)	60.9
Earth or rock drilling, and mining	68 (0.1%)	▽ 24.4	16 (0.1%)	433.3	84 (0.1%)	▽ 9.7
Engines and pumps	1,368 (2.6%)	51.0	520 (2.6%)	58.1	1,888 (2.6%)	52.9
Engineering in general	1,040 (1.9%)	46.5	638 (3.2%)	85.5	1,678 (2.3%)	59.2
Lighting and heating	2,173 (4.1%)	57.2	366 (1.8%)	55.1	2,539 (3.5%)	56.9
Weapons and blasting	69 (0.1%)	23.2	49 (0.2%)	122.7	118 (0.2%)	51.3
Instruments	3,533 (6.6%)	50.6	1,932 (9.6%)	83.3	5,465 (7.4%)	60.7
Horology and computing	3,429 (6.4%)	24.5	981 (4.9%)	25.1	4,410 (6.0%)	24.6
Educating and information storage	3,297 (6.2%)	101.0	1,262 (6.3%)	13.1	4,559 (6.2%)	65.4
Nucleonics	37 (0.1%)	▽ 40.3	23 (0.1%)	▽ 25.8	60 (0.1%)	▽ 35.5
Electric elements and electric techniques	8,609 (16.1%)	62.8	3,722 (18.5%)	41.9	12,331 (16.8%)	55.9
Electric circuitry and electric communication techniques	6,124 (11.5%)	30.1	1,531 (7.6%)	11.5	7,655 (10.4%)	25.9
Others	2	▽ 33.3	0	0	2	▽ 33.3
<b>Total</b>	<b>53,416</b>	<b>51.4</b>	<b>20,093</b>	<b>45.8</b>	<b>73,509</b>	<b>49.8</b>

Note: 1. "Others" refers to non-classified applications.  
2. The figures are preliminary estimates.

## Registrations

### Patent registrations in biotechnology

	2002		2003		2004		2005		2006	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	705	66.9%	730	66.1%	1,243	62.5%	1,490	67.9%	1,911	71%
Foreign	350	33.1%	331	33.9%	373	37.5%	532	32.1%	778	29%
<b>Total</b>	<b>1,055</b>		<b>1,061</b>		<b>1,616</b>		<b>2,022</b>		<b>2,689</b>	

Note: 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

	2002		2003		2004		2005		2006	
	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio	Cases	Ratio
Domestic	694	89.4%	909	93.1%	1,215	91.6%	1,242	87.3%	1,669	85.4%
Foreign	82	10.6%	67	6.9%	112	8.4%	193	12.7%	286	14.6%
<b>Total</b>	<b>776</b>		<b>976</b>		<b>1,327</b>		<b>1,435</b>		<b>1,955</b>	

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

## Registrations

Registrations by residents of foreign countries in 2006

Residence	Patents	Utility models	Industrial designs	Trademarks	Total
Argentina	2	0	0	11	13
Australia	177	6	4	134	321
Austria	73	1	0	58	132
Bahamas	2	0	2	5	9
Barbados	2	0	0	9	11
Belarus	3	0	0	1	4
Belgium	111	1	21	90	223
Bermuda	1	0	0	31	32
Brazil	12	0	1	28	41
Bulgaria	0	0	0	12	12
Canada	140	2	24	138	304
Cayman Islands	6	0	0	14	20
Chile	0	0	0	26	26
China	105	47	31	421	604
Colombia	0	0	0	2	2
Costa Rica	1	0	0	2	3
Croatia	3	0	0	1	4
Cuba	2	0	0	2	4
Cyprus	5	0	0	7	12
Czech Republic	1	0	0	9	10
Denmark	111	0	9	88	208
Estonia	0	0	1	1	2
Finland	263	1	39	42	345
France	942	2	112	828	1,884
Germany	2,686	5	133	1,078	3,902
Gibraltar	0	0	0	2	2
Greece	3	0	0	4	7
Hong Kong, China	23	2	9	122	156
Hungary	16	0	0	8	24
Iceland	0	0	0	3	3
India	30	0	0	12	42
Indonesia	3	0	0	19	22
Iran	0	0	0	4	4
Ireland	16	0	1	42	59
Isle of Man	3	0	0	3	6
Israel	84	0	4	28	116
Italy	208	5	96	561	870
Japan	16,406	33	1,366	2,769	20,574
Latvia	0	0	0	5	5
Liberia	0	0	0	2	2
Liechtenstein	16	0	15	19	50
Luxembourg	21	0	0	73	94
Macau, China	0	0	0	5	5

## Registrations

Registrations by residents of foreign countries in 2006

Residence	Patents	Utility models	Industrial designs	Trademarks	Total
Malaysia	1	0	3	21	25
Mauritius	0	0	0	9	9
Mexico	3	0	0	68	71
Monaco	6	0	0	21	27
Netherlands	1,037	0	50	281	1,368
Netherlands Antilles	13	0	0	3	16
New Zealand	13	0	8	30	51
Norway	58	0	12	33	103
Panama	2	0	0	4	6
Philippines	0	1	0	12	13
Poland	1	0	0	11	12
Portuga	3	0	1	22	26
Qatar	0	0	0	3	3
Rumania	1	0	0	3	4
Russian Federation	12	1	0	37	50
Samoa	0	2	0	1	3
San Marino	0	0	0	5	5
Saudi Arabia	4	0	2	6	12
Seychelles	0	0	0	4	4
Singapore	34	0	16	111	161
Slovakia	1	0	0	3	4
Slovenia	7	0	0	1	8
South Africa	12	0	0	6	18
Spain	51	0	2	114	167
Sri Lanka	0	0	0	3	3
Swaziland	1	0	1	0	2
Sweden	517	2	13	146	678
Switzerland	691	0	56	523	1,270
Taiwan	293	485	33	188	999
Thailand	1	0	0	34	35
Turkey	3	0	0	29	32
United Arab Emirates	2	0	0	11	13
United Kingdom	434	2	32	563	1,031
USA	6,784	106	602	3,858	11,350
Venezuela	1	0	0	6	7
Vietnam	0	0	0	21	21
British Virgin Islands	16	0	0	67	83
Others	6	1	4	17	28
Total	31,485	705	2,703	12,994	47,887

Note: The figures are preliminary estimates.



## Trials and appeals

### Petitions

	IPR type	2002	2003	2004	2005	2006
Ex parte	Patents	2,902	3,300	4,183	6,366	8,821
	Utility models	239	234	282	307	278
	Industrial designs	139 (139)	127 (129)	146 (146)	153 (153)	119 (119)
	Trademarks	1,588 (2,261)	1,788 (2,338)	2,024 (2,749)	2,602 (3,803)	2,654 (3,846)
	Subtotal	4,868 (5,541)	5,449 (6,001)	6,635 (7,360)	9,428 (10,629)	11,872 (13,064)
Inter partes	Patents	474	521	615	776	904
	Utility models	648	554	545	479	487
	Industrial designs	420 (421)	467 (475)	398 (426)	327 (331)	384 (427)
	Trademarks	1,319 (1,414)	1,407 (1,598)	1,474 (1,833)	1,744 (2,066)	1,844 (2,229)
	Subtotal	2,861 (2,957)	2,949 (3,148)	3,032 (3,419)	3,326 (3,652)	3,619 (4,047)
Total	Patents	3,376	3,821	4,798	7,142	9,725
	Utility models	887	788	827	786	765
	Industrial designs	559 (560)	594 (604)	544 (572)	480 (484)	503 (546)
	Trademarks	2,907 (3,675)	3,195 (3,936)	3,498 (4,582)	4,346 (5,869)	4,498 (6,075)
	Subtotal	7,729 (8,498)	8,398 (9,149)	9,667 (10,779)	12,754 (14,281)	15,491 (17,111)

Note: 1. Figures in parentheses include multiple applications.  
2. The figures for 2006 are preliminary estimates.

### Actions

	IPR type	2002	2003	2004	2005	2006
Ex parte	Patents	2,620	2,477	3,456	5,772	8,911
	Utility models	235	210	244	335	367
	Industrial designs	116 (116)	131 (131)	150 (150)	144 (144)	125 (125)
	Trademarks	1,397 (1,866)	1,601 (2,208)	1,883 (2,451)	2,198 (3,114)	2,539 (3,622)
	Subtotal	4,368 (4,837)	4,419 (5,026)	5,733 (6,301)	8,449 (9,365)	11,942 (13,025)
Inter partes	Patents	402	359	595	800	882
	Utility models	531	518	632	706	490
	Industrial designs	341 (342)	439 (445)	435 (449)	374 (391)	340 (381)
	Trademarks	1,248 (1,302)	1,385 (1,510)	1,480 (1,755)	1,590 (1,888)	1,682 (2,008)
	Subtotal	2,522 (2,577)	2,701 (2,832)	3,142 (3,431)	3,470 (3,786)	3,394 (3,761)
Total	Patents	3,022	2,836	4,051	6,572	9,793
	Utility models	766	728	876	1,041	857
	Industrial designs	457 (458)	570 (576)	585 (599)	518 (535)	465 (506)
	Trademarks	2,645 (3,168)	2,986 (3,781)	3,363 (4,206)	3,788 (5,003)	4,221 (5,630)
	Subtotal	6,890 (7,414)	7,120 (7,858)	8,875 (9,732)	11,919 (13,151)	15,336 (16,786)

Note: 1. Figures in parentheses include multiple applications.  
2. The figures for 2006 are preliminary estimates.

## Trials and appeals

### Successful petitions

	IPR type	2002	2003	2004	2005	2006
Ex parte	Patents	403 (45.5)	396 (43.7)	684 (40.3)	1,087 (39.7)	1,727 (43.1)
	Utility models	75 (48.4)	96 (48.7)	101 (42.3)	137 (41.9)	128 (36.1)
	Industrial designs	18 (32.7)	51 (58.0)	35 (41.7)	21 (22.3)	43 (51.8)
	Trademarks	945 (50.6)	1,093 (49.5)	1,354 (55.2)	1,491 (47.9)	1,980 (54.9)
	Subtotal	1,441 (48.7)	1,636 (48.1)	1,174 (48.7)	1,736 (43.6)	3,878 (48.2)
Inter partes	Patents	175 (43.5)	163 (45.4)	325 (54.6)	426 (53.3)	464 (53.2)
	Utility models	208 (39.2)	191 (36.9)	292 (46.2)	350 (49.6)	263 (54.0)
	Industrial designs	187 (54.7)	229 (51.5)	242 (53.9)	206 (52.7)	219 (57.9)
	Trademarks	726 (55.8)	984 (65.2)	1,130 (64.4)	1,196 (63.6)	1,214 (61.0)
	Subtotal	1,296 (50.3)	1,567 (55.3)	1,989 (60.0)	2,178 (57.5)	2,160 (58.0)
Total	Patents	578 (44.9)	559 (44.2)	1,009 (44.0)	1,513 (42.8)	2,191 (44.9)
	Utility models	283 (41.3)	287 (40.1)	393 (45.3)	487 (47.1)	391 (46.4)
	Industrial designs	205 (51.8)	280 (52.5)	277 (52.0)	227 (46.8)	262 (56.8)
	Trademarks	1,671 (52.7)	2,077 (55.9)	2,484 (59.1)	2,687 (53.7)	3,194 (57.1)
	Subtotal	2,737 (49.4)	3,203 (51.4)	4,163 (52.7)	4,914 (48.6)	6,038 (51.3)

Note: 1. 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's reconsideration before a trial and invalidation of a patent process. The figures in parentheses indicate the percentage of the petitions granted.  
2. The figures for 2006 are preliminary estimates.

### Comparison of domestic and foreign trial requests

	2002		2003		2004		2005		2006	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
Patents	1,926	1,450	2,339	1,482	3,133	1,665	4,362	2,780	6,212	3,513
Utility models	866	21	780	8	812	15	771	15	758	7
Industrial designs	513	47	554	50	538	34	456	28	515	31
Trademarks	2,179	1,496	2,505	1,431	2,890	1,692	3,432	2,437	3,334	2,741
<b>Total</b>	<b>5,484</b>	<b>3,014</b>	<b>6,178</b>	<b>2,971</b>	<b>7,373</b>	<b>3,406</b>	<b>9,021</b>	<b>5,260</b>	<b>10,819</b>	<b>6,292</b>

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

## Revenue and expenditure

### Revenue

(unit: billion KRW)

	2005	2006	2007
Revenue from goods and services	190.379	234.427	242.055
Revenue carried over from the previous year	4.291	26.412	37.242
Internal revenue and others	30.332	37.134	31.822
<b>Total</b>	<b>225.020</b>	<b>297.973</b>	<b>311.119</b>

### Expenditure

(unit: billion KRW)

	2005	2006	2007
Major projects	108.720	203.107	210.798
Basic projects	13.492	16.208	13.389
Labor costs	58.769	74.224	79.127
Reserve fund	6.038	4.434	7.805
Deposit for special budget	38.000	-	-
<b>Total</b>	<b>225.020</b>	<b>297.973</b>	<b>311.119</b>

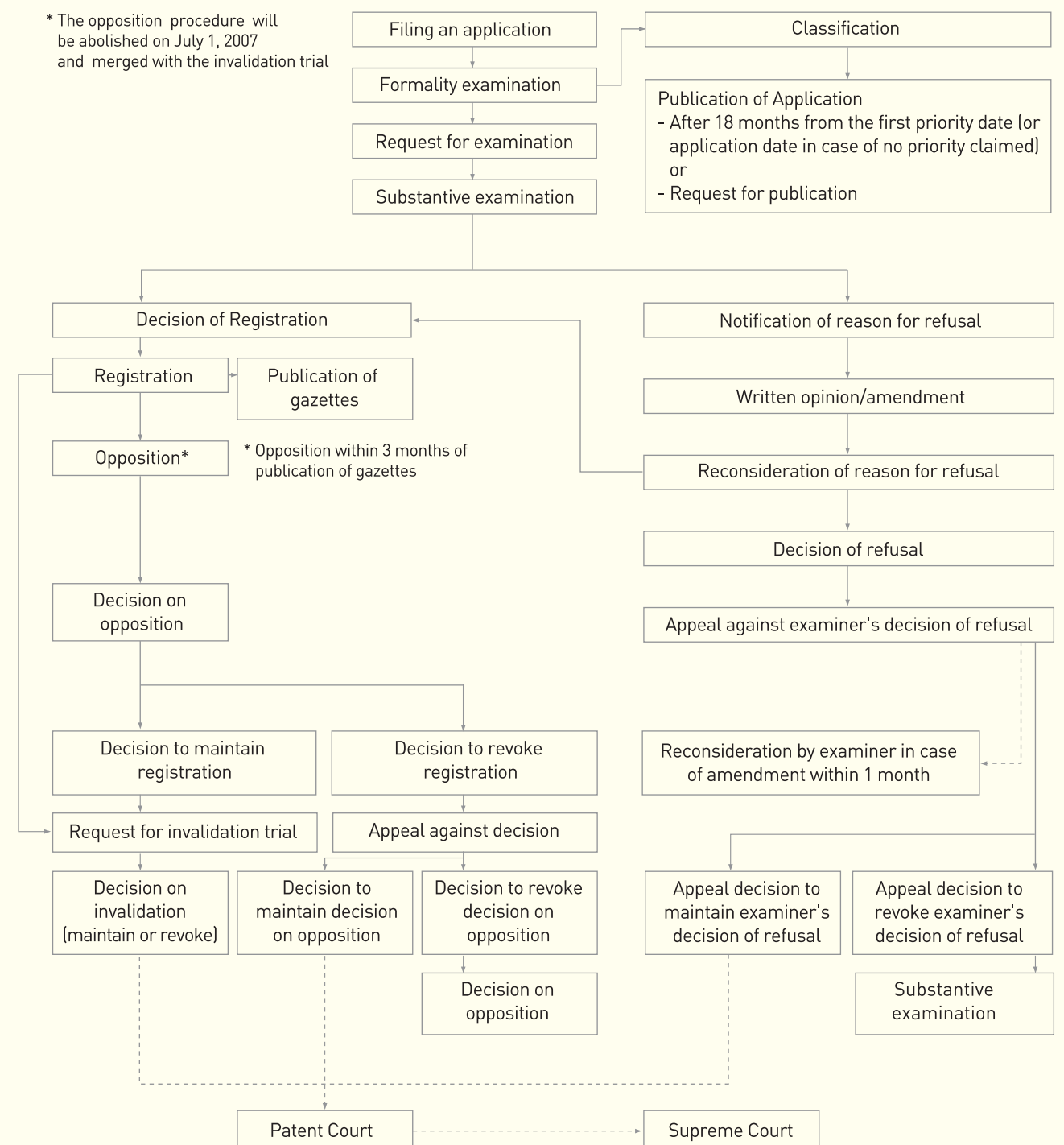
### KIPO staff

(unit: billion KRW)

	2003	2004	2005	2006	2007	
Examiners	· Patents and utility models	513	558	728	727	711
	· Industrial designs	18	18	26	26	26
	· Trademarks	88	94	114	113	113
Appeal judges	41	41	49	79	99	
Clerical staff	466	495	575	572	579	
<b>Total</b>	<b>1,126</b>	<b>1,206</b>	<b>1,492</b>	<b>1,517</b>	<b>1,528</b>	

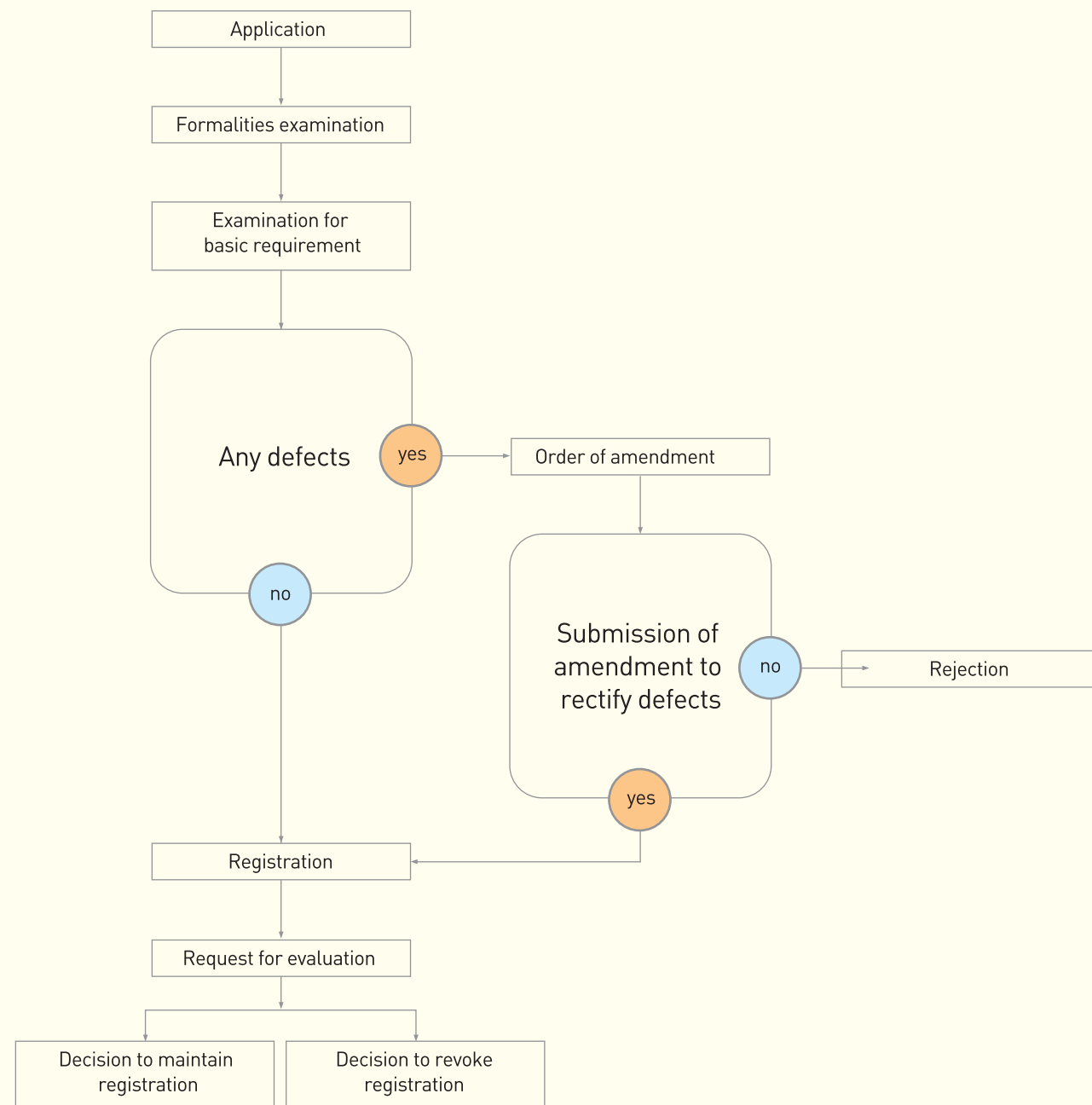
## Flow chart for examinations

### Procedure for Granting Patents and Utility Models



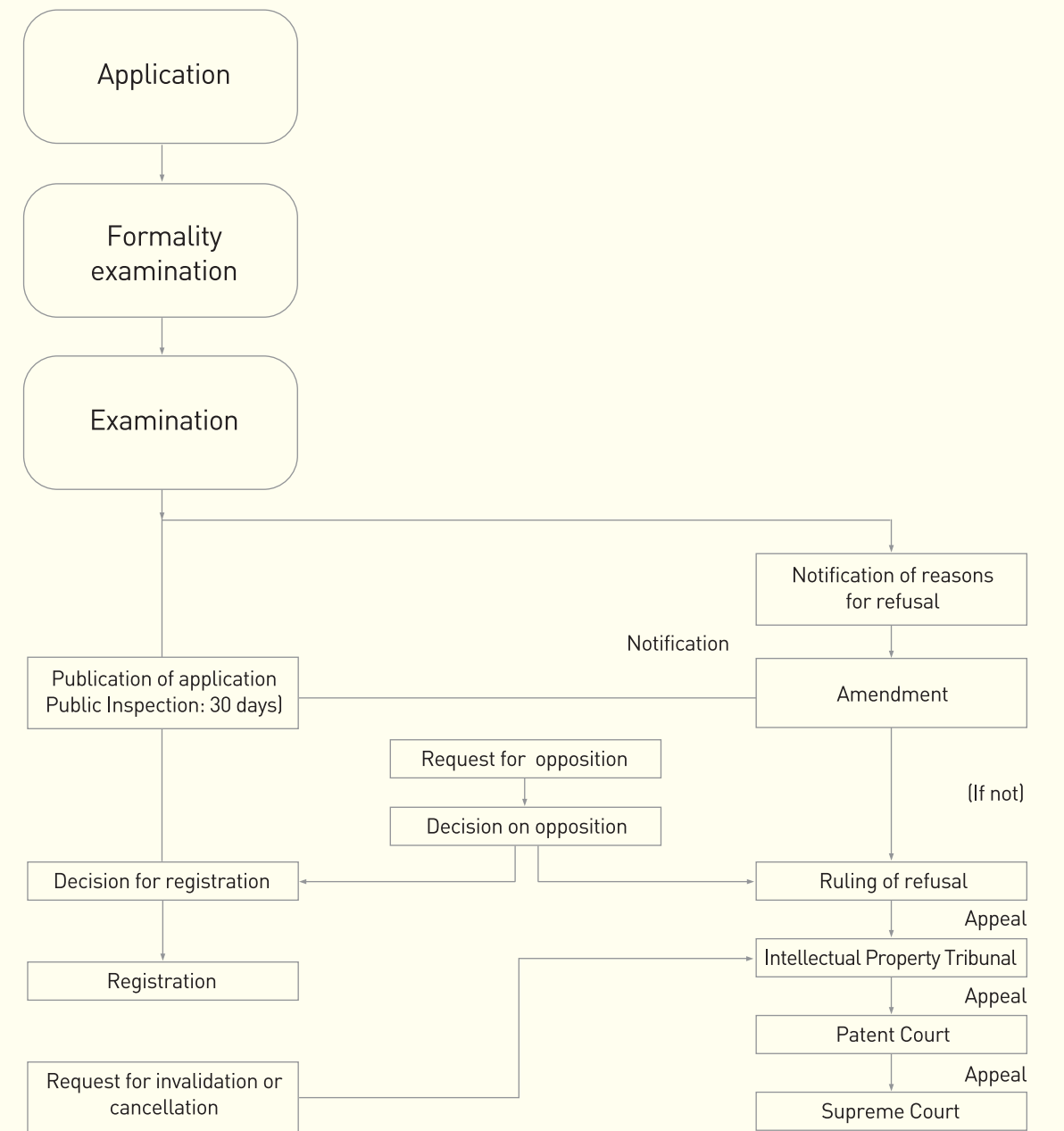
## Flow chart for examinations

Procedure for Granting a Utility Model (under old act before October 1, 2006)



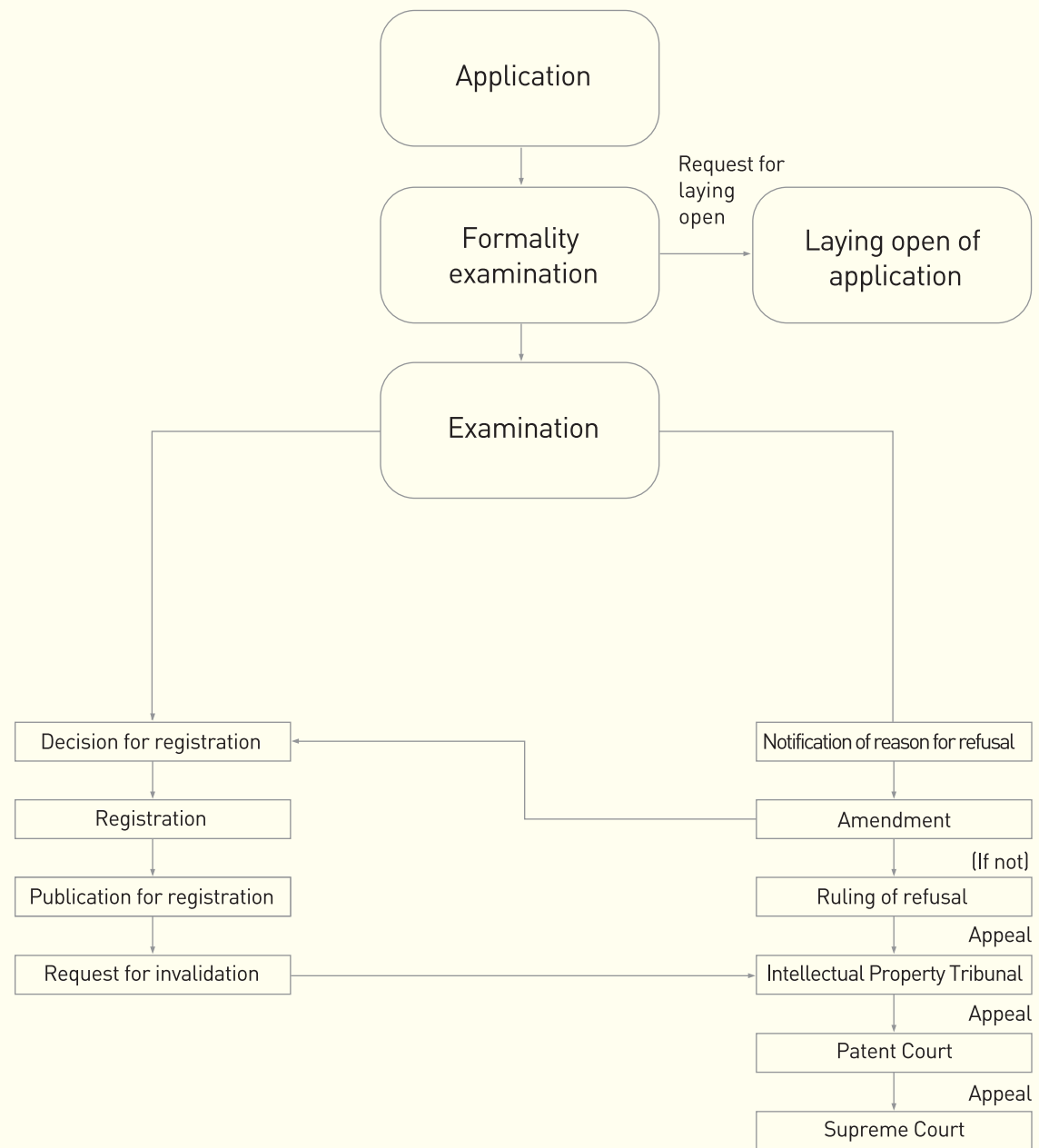
## Flow chart for examinations

Trademarks



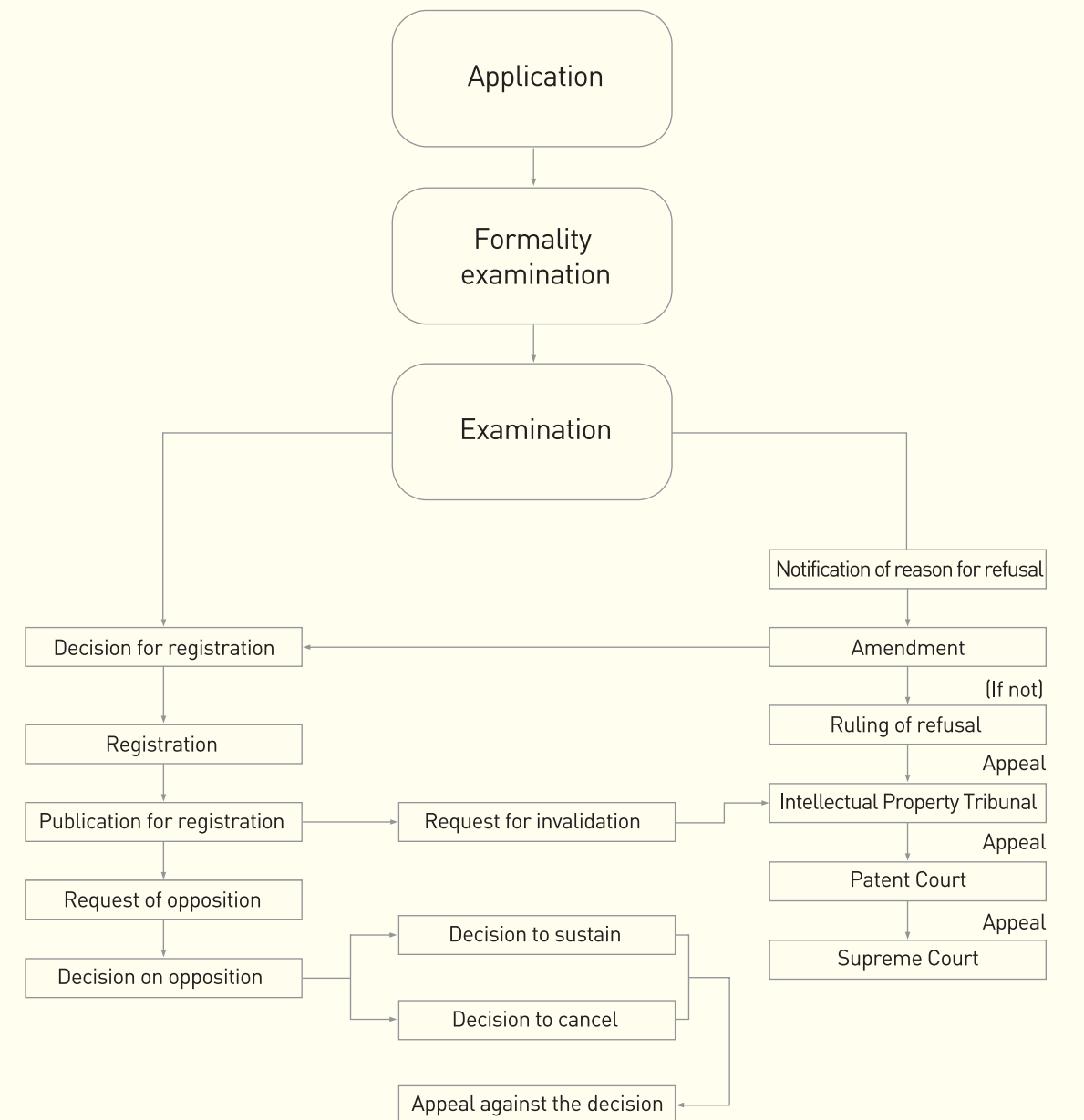
## Flow chart for examinations

### Substantive Examination for Industrial Designs



## Flow chart for examinations

### Nonsubstantive Examination for Industrial Designs



## Organizational chart of KIPO

