

# Appendix

## 1. Statistics

Table 1 Applications for Three Kinds of Patents Received from Home and Abroad, 2003–2011

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	7066300	2386429	2235856	2444015	6179031	1623988	2218848	2336195	887269	762441	17008	107820
Average Growth Rate (%)	23.2%	22.3%	23.4%	23.9%	25.1%	28.3%	23.4%	24.7%	10.7%	10.8%	16.0%	8.2%
2003	308487	105318	109115	94054	251238	56769	107842	86627	57249	48549	1273	7427
	22.1%	31.3%	17.2%	18.7%	22.2%	42.6%	17.0%	17.7%	21.6%	20.1%	30.8%	30.6%
2004	353807	130133	112825	110849	278943	65786	111578	101579	74864	64347	1247	9270
	14.7%	23.6%	3.4%	17.9%	11.0%	15.9%	3.5%	17.3%	30.8%	32.5%	-2.0%	24.8%
2005	476264	173327	139566	163371	383157	93485	138085	151587	93107	79842	1481	11784
	34.6%	33.2%	23.7%	47.4%	37.4%	42.1%	23.8%	49.2%	24.4%	24.1%	18.8%	27.1%
2006	573178	210490	161366	201322	470342	122318	159997	188027	102836	88172	1369	13295
	20.3%	21.4%	15.6%	23.2%	22.8%	30.8%	15.9%	24.0%	10.4%	10.4%	-7.6%	12.8%
2007	693917	245161	181324	267432	586498	153060	179999	253439	107419	92101	1325	13993
	21.1%	16.5%	12.4%	32.8%	24.7%	25.1%	12.5%	34.8%	4.5%	4.5%	-3.2%	5.3%
2008	828328	289838	225586	312904	717144	194579	223945	298620	111184	95259	1641	14284
	19.4%	18.2%	24.4%	17.0%	22.3%	27.1%	24.4%	17.8%	3.5%	3.4%	23.8%	2.1%
2009	976686	314573	310771	351342	877611	229096	308861	339654	99075	85477	1910	11688
	17.9%	8.5%	37.8%	12.3%	22.4%	17.7%	37.9%	13.7%	-10.9%	-10.3%	16.4%	-18.2%
2010	1222286	391177	409836	421273	1109428	293066	407238	409124	112858	98111	2598	12149
	25.1%	24.4%	31.9%	19.9%	26.4%	27.9%	31.9%	20.5%	13.9%	14.8%	36.0%	3.9%
2011	1633347	526412	585467	521468	1504670	415829	581303	507538	128677	110583	4164	13930
	33.6%	34.6%	42.9%	23.8%	35.6%	41.9%	42.7%	24.1%	14.0%	12.7%	60.3%	14.7%



**Table 2 Domestic Applications for Three Kinds of Patents According to Service and Non-Service, 2003-2011**

	Non-Service	Service				
		Sub-total	Colleges and Universities	Scientific Research Institutions	Enterprises	Organizations
Accumulated Total	2858623	3320644	394992	152205	2721260	52187
Average Growth Rate(%)	17.5%	32.3%	34.6%	23.5%	32.5%	38.6%
2003	148782	102456	10252	6998	84117	1089
	19.7%	26.1%	71.4%	30.2%	22.0%	17.6%
2004	167663	111280	12997	6709	90148	1426
	12.7%	8.6%	26.8%	-4.1%	7.2%	30.9%
2005	224275	158882	19921	9746	127397	1818
	33.8%	42.8%	53.3%	45.3%	41.3%	27.5%
2006	266776	203566	22950	9878	166874	3864
	19.0%	28.1%	15.2%	1.4%	31.0%	112.5%
2007	310625	276109	32680	14119	223480	5830
	16.4%	35.6%	42.4%	42.9%	33.9%	50.9%
2008	352758	364386	45145	18612	295510	5119
	13.6%	32.0%	38.1%	31.8%	32.2%	-12.2%
2009	394560	483051	61579	21271	394299	5902
	11.9%	32.6%	36.4%	14.3%	33.4%	15.3%
2010	450858	658570	79332	26962	540000	12276
	14.3%	36.3%	28.8%	26.8%	37.0%	108.0%
2011	542326	962344	110136	37910	799435	14863
	20.3%	46.1%	38.8%	40.6%	48.0%	21.1%

**Table 3 Three Kinds of Patents Granted for Home and Abroad, 2003–2011**

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	3975563	794971	1609628	1570964	3476700	411467	1595774	1469459	498863	383504	13854	101505
Average Growth Rate (%)	23.1%	21.1%	24.9%	22.3%	24.9%	33.1%	24.9%	23.0%	11.3%	11.1%	22.0%	10.4%
2003	182226	37154	68906	76166	149588	11404	68291	69893	32638	25750	615	6273
	37.6%	73.0%	19.9%	42.5%	33.4%	94.3%	19.6%	42.2%	60.8%	65.0%	56.9%	45.9%
2004	190238	49360	70623	70255	151328	18241	70019	63068	38910	31119	604	7187
	4.4%	32.9%	2.5%	-7.8%	1.2%	60.0%	2.5%	-9.8%	19.2%	20.9%	-1.8%	14.6%
2005	214003	53305	79349	81349	171619	20705	78137	72777	42384	32600	1212	8572
	12.5%	8.0%	12.4%	15.8%	13.4%	13.5%	11.6%	15.4%	8.9%	4.8%	100.7%	19.3%
2006	268002	57786	107655	102561	223860	25077	106312	92471	44142	32709	1343	10090
	25.2%	8.4%	35.7%	26.1%	30.4%	21.1%	36.1%	27.1%	4.1%	0.3%	10.8%	17.7%
2007	351782	67948	150036	133798	301632	31945	148391	121296	50150	36003	1645	12502
	31.3%	17.6%	39.4%	30.5%	34.7%	27.4%	39.6%	31.2%	13.6%	10.1%	22.5%	23.9%
2008	411982	93706	176675	141601	352406	46590	175169	130647	59576	47116	1506	10954
	17.1%	37.9%	17.8%	5.8%	16.8%	45.8%	18.0%	7.7%	18.8%	30.9%	-8.4%	-12.4%
2009	581992	128489	203802	249701	501786	65391	202113	234282	80206	63098	1689	15419
	41.3%	37.1%	15.4%	76.3%	42.4%	40.4%	15.4%	79.3%	34.6%	33.9%	12.2%	40.8%
2010	814825	135110	344472	335243	740620	79767	342256	318597	74205	55343	2216	16646
	40.0%	5.2%	69.0%	34.3%	47.6%	22.0%	69.3%	36.0%	-7.5%	-12.3%	31.2%	8.0%
2011	960513	172113	408110	380290	883861	112347	405086	366428	76652	59766	3024	13862
	17.9%	27.4%	18.5%	13.4%	19.3%	40.8%	18.4%	15.0%	3.3%	8.0%	36.5%	-16.7%

**Table 4 Applications for Three Kinds of Patents Received From Home, 1985–2011**

Region	Accumulated Total	1985–2006	2007	2008	2009	2010	2011
Total	7500037	2704686	586498	717144	877611	1109428	1504670
Beijing	453808	193133	31680	43508	50236	57296	77955
Tianjin	187698	69638	15744	18230	19624	25973	38489
Hebei	127543	69311	7853	9128	11361	12295	17595
Shanxi	60313	24076	3333	5386	6822	7927	12769
Inner Mongolia	30746	17273	2015	2221	2484	2912	3841
Liaoning	277977	140445	19518	20893	25803	34216	37102
Jilin	75421	44059	5251	5536	5934	6445	8196
Heilongjiang	119593	61662	7242	7974	9014	10269	23432
Shanghai	501754	188062	47205	52835	62241	71196	80215
Jiangsu	1183674	208139	88950	128002	174329	235873	348381
Zhejiang	796760	231606	68933	89931	108482	120742	177066
Anhui	160339	31790	6070	10409	16386	47128	48556
Fujian	167354	70954	11341	13181	17559	21994	32325
Jiangxi	57248	28750	3548	3746	5224	6307	9673
Shandong	557150	192742	46849	60247	66857	80856	109599
Henan	183899	71079	14916	19090	19589	25149	34076
Hubei	216678	77128	17376	21147	27206	31311	42510
Hunan	174793	81699	11233	14016	15948	22381	29516
Guangdong	1105867	424683	102449	103883	125673	152907	196272
Guangxi	53662	28798	3480	3884	4277	5117	8106
Chongqing	121183	37798	6715	8324	13482	22825	32039
Sichuan	252045	85534	19165	24335	33047	40230	49734
Guizhou	39837	17661	2759	2943	3709	4414	8351
Yunnan	50397	25772	3108	4089	4633	5645	7150
Tibet	1510	443	97	350	195	162	263

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Region	Accumulated Total	1985-2006	2007	2008	2009	2010	2011
Shaanxi	135173	44030	8499	11898	15570	22949	32227
Gansu	29002	13695	1608	2178	2676	3558	5287
Qinghai	5461	2810	387	431	499	602	732
Ningxia	10390	5370	838	1087	1277	739	1079
Xinjiang	33379	17529	2270	2412	2872	3560	4736
Hainan	10754	5701	632	873	1040	1019	1489
Hong Kong	34679	21069	2562	2486	2411	2980	3171
Macao	373	206	39	22	38	32	36
Taiwan	283577	172041	22833	22469	21113	22419	22702
(Guangzhou)	165327	73903	12054	13968	16514	20801	28087
(Changchun)	34301	14250	3418	3454	3550	4238	5391
(Wuhan)	110251	38443	9014	11270	14600	15045	21879
(Nanjing)	109049	24701	8030	11692	14221	19275	31130
(Hangzhou)	163013	34555	13284	18513	26074	29801	40786
(Xi'an)	102307	25981	6768	9584	12772	19485	27717
(Jinan)	95270	26912	8961	11572	13701	15543	18581
(Shenyang)	91956	51132	4905	6254	7708	10051	11906
(Chengdu)	161718	33103	14591	19167	26130	31261	37466
(Dalian)	92857	31207	8494	8095	11340	17442	16279
(Xiamen)	38824	13684	3050	3336	4914	5525	8315
(Harbin)	62524	28216	4293	4951	5525	6526	13013
(Shenzhen)	325573	98285	35808	36249	42279	49430	63522
(Qingdao)	88052	33601	7016	8369	8754	10735	19577
(Ningbo)	152345	26746	12787	16156	22686	26399	47571
(XPCC)	1635	—	—	320	314	430	571

**Table 5 Applications for Three Kinds of Patents Received from Home in 2011**

Region	Total	Invention	Utility Model	Design
Total	1504670	415829	581303	507538
Beijing	77955	45057	26615	6283
Tianjin	38489	10623	18042	9824
Hebei	17595	4651	10423	2521
Shanxi	12769	4602	5238	2929
Inner Mongolia	3841	1267	2034	540
Liaoning	37102	14658	17715	4729
Jilin	8196	3334	3941	921
Heilongjiang	23432	5063	9704	8665
Shanghai	80215	32142	30926	17147
Jiangsu	348381	84678	81097	182606
Zhejiang	177066	24745	75860	76461
Anhui	48556	10982	23209	14365
Fujian	32325	6896	16688	8741
Jiangxi	9673	2796	4698	2179
Shandong	109599	25623	63004	20972
Henan	34076	8833	19120	6123
Hubei	42510	10327	17409	14774
Hunan	29516	8774	13598	7144
Guangdong	196272	52012	67333	76927
Guangxi	8106	2757	3614	1735
Chongqing	32039	8839	16786	6414
Sichuan	49734	11808	19241	18685
Guizhou	8351	2358	3170	2823
Yunnan	7150	2796	3175	1179
Tibet	263	101	41	121

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Region	Total	Invention	Utility Model	Design
Shaanxi	32227	13037	11643	7547
Gansu	5287	2105	2441	741
Qinghai	732	204	233	295
Ningxia	1079	442	527	110
Xinjiang	4736	1273	2732	731
Hainan	1489	732	504	253
Hong Kong	3171	944	900	1327
Macao	36	19	15	2
Taiwan	22702	11351	9627	1724
(Guangzhou)	28087	8172	10216	9699
(Changchun)	5391	2505	2381	505
(Wuhan)	21879	6362	10100	5417
(Nanjing)	31130	11598	8774	10758
(Hangzhou)	40786	9719	18792	12275
(Xi'an)	27717	11689	9725	6303
(Jinan)	18581	5127	12059	1395
(Shenyang)	11906	4880	4343	2683
(Chengdu)	37466	8644	13468	15354
(Dalian)	16279	7418	7830	1031
(Xiamen)	8315	1982	4336	1997
(Harbin)	13013	3970	4289	4754
(Shenzhen)	63522	28823	21196	13503
(Qingdao)	19577	5319	9222	5036
(Ningbo)	47571	4360	18058	25153
(XPCC)	571	199	342	30

**Table 6 Distribution of Foreign Application for Patents Received, 1985–2011**

Countries and Regions	Accumulated Total	1985–2006	2007	2008	2009	2010	2011
Total	1165791	606578	107419	111184	99075	112858	128677
Algeria	4	2	0	0	1	1	0
Afghanistan	10	0	0	0	2	6	2
Argentina	109	62	5	15	5	12	10
United Arab Emirates	162	64	56	3	12	7	20
Aruba	1	1	0	0	0	0	0
Oman	3	0	3	0	0	0	0
Azerbaijan	3	0	1	0	0	1	1
Egypt	34	16	7	2	1	1	7
Ireland	1342	531	139	168	171	157	176
Estonia	31	9	1	3	6	7	5
Andorra	12	4	2	0	4	1	1
Anguilla The Valley	2	0	0	1	1	0	0
Antigua and Barbuda	11	3	3	0	1	1	3
Austria	4903	2374	422	447	413	550	697
Australia	9347	5258	816	864	720	822	867
Barbados	521	143	52	57	79	84	106
Bahamas	213	128	13	11	26	18	17
Pakistan	12	6	0	3	1	0	2
Paraguay	1	0	0	1	0	0	0
Bahrain Island	3	3	0	0	0	0	0
Panama	291	233	15	16	11	6	10
Brazil	1224	524	88	122	121	166	203
Belarus	28	18	3	1	6	0	0
Bermuda	687	182	73	112	116	83	121
Bulguria	84	63	2	9	1	5	4
Benin	1	0	0	0	0	0	1
Belgium	5371	2452	562	561	516	611	669
Iceland	164	56	14	24	28	25	17
Puerto Rico	6	2	0	4	0	0	0
Poland	325	134	33	26	24	50	58



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Countries and Regions	Accumulated Total	1985-2006	2007	2008	2009	2010	2011
Bolivia	1	0	0	1	0	0	0
Belize	40	5	7	7	18	1	2
Burundi	1	0	0	1	0	0	0
DPRK	19	10	4	3	1	1	0
Denmark	7438	3503	637	765	739	857	937
Germany	105974	52354	9388	10145	9694	11297	13096
Dominican Republic	2	1	1	0	0	0	0
Dominica	3	3	0	0	0	0	0
Russia	1753	1129	78	107	122	147	170
Ecuador	10	6	0	0	1	0	3
France	43022	23278	3697	3854	3624	3994	4575
Vatican	2	2	0	0	0	0	0
Philippine	78	47	5	8	8	5	5
Fiji	10	0	10	0	0	0	0
Finland	11879	6273	1065	1201	1049	1215	1076
Malvinas Islands (Falkland Islands)	1	1	0	0	0	0	0
Colombia	47	16	2	8	8	6	7
Costa Rica	3	3	0	0	0	0	0
Grenada	1	0	0	0	1	0	0
Georgia	8	5	0	0	3	0	0
Cuba	137	84	10	23	7	7	6
Kazakhstan	26	10	2	3	3	4	4
Haiti	1	0	1	0	0	0	0
The Republic of Korea	93647	48971	9601	9320	7113	8782	9860
Netherland	39244	21686	3760	3624	3372	3329	3473
Netherlands Antilles	300	205	29	28	16	16	6
Honduras	1	0	0	0	1	0	0
Kyrgyzstan	4	2	0	1	0	1	0
Canada	10223	4937	953	1016	989	1137	1191
Czech Republic	625	195	127	96	67	68	72
Czechoslovakia	72	72	0	0	0	0	0
Zimbabwe	8	8	0	0	0	0	0

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Countries and Regions	Accumulated Total	1985-2006	2007	2008	2009	2010	2011
Cameroon	2	2	0	0	0	0	0
Cayman Islands	2059	337	163	184	331	353	691
Kuwait	13	9	0	0	1	1	2
Croatia	124	94	12	6	6	3	3
Kenya	2	0	0	0	0	0	2
The Cook Islands	16	5	0	0	3	2	6
Latvia	47	13	1	6	7	9	11
Lesotho	1	1	0	0	0	0	0
Lebanon	14	7	1	0	0	1	5
Lithuania	6	2	1	0	0	2	1
Liberia	3	3	0	0	0	0	0
Liechtenstein	1390	725	109	207	111	83	155
Luxemburg	1130	480	98	100	101	136	215
Romania	28	13	4	2	1	2	6
Madagascar	2	2	0	0	0	0	0
Maldives	2	2	0	0	0	0	0
Malta	74	14	7	3	21	16	13
Malawi	2	2	0	0	0	0	0
Malaysia	1035	438	84	129	114	129	141
Mali	20	7	0	0	0	3	10
Marshall Islands	6	0	1	1	0	2	2
Mauritius	121	50	12	25	15	9	10
Unite States	282600	143748	25908	27656	24629	28636	32023
Mongolia	4	0	0	1	0	0	3
Bangladesh	3	2	0	0	0	1	0
Peru	8	3	0	0	0	2	3
Moldova	2	0	1	0	0	1	0
Morocco	17	8	4	1	0	2	2
Monaco	119	75	7	19	4	7	7
Mexico	339	115	27	67	23	54	53
Nambia	2	1	0	1	0	0	0
South Africa	1049	585	82	102	99	99	82
Yugoslavia	39	35	2	2	0	0	0
Niger	1	1	0	0	0	0	0

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Countries and Regions	Accumulated Total	1985–2006	2007	2008	2009	2010	2011
Nigeria	8	5	0	0	1	2	0
Norway	2538	1327	248	216	211	261	275
Portugal	213	66	39	27	21	32	28
Japan	417991	223545	38188	38408	34381	38241	45228
Sweden	19168	9571	1726	2068	1844	1996	1963
Switzerland	31369	16556	2800	2830	2823	3067	3293
El Salvador	2	1	0	0	0	0	1
Samoa	158	47	28	29	8	26	20
Serbia	5	0	0	0	0	4	1
Serbia and Montenegro	2	2	0	0	0	0	0
Senegal	2	1	0	1	0	0	0
Cyprus	213	92	9	32	17	29	34
Seychelles	46	6	5	8	12	6	9
Saudi Arabia	509	275	55	71	34	38	36
Saint Kitts and Nevi	3	2	0	1	0	0	0
San Marino	18	8	0	6	1	1	2
Saint Vincent and the Grenadines	4	2	0	0	0	1	1
Sri Lanka	47	46	1	0	0	0	0
Slovak	67	21	9	13	7	6	11
Slovenia	240	100	14	29	22	37	38
Swaziland	1	1	0	0	0	0	0
Sudan	1	1	0	0	0	0	0
Thailand	536	379	38	27	36	31	25
The Turks and Caicos Islands	0	0	0	0	0	0	0
Trinidad and Tobago	5	2	0	0	1	2	0
Tunisia	9	1	3	1	3	0	1
Turkey	606	159	82	114	70	77	104
Vanuatu	12	12	0	0	0	0	0
Guatemala	1	0	0	0	1	0	0
Virgin Islands	2614	1036	303	367	241	381	286
Venezuela	48	37	3	1	2	4	1
Brunei Darussalam	75	19	11	4	15	20	6

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Countries and Regions	Accumulated Total	1985-2006	2007	2008	2009	2010	2011
Uganda	2	0	2	0	0	0	0
Ukraine	87	55	8	5	3	6	10
Uruguay	22	13	0	1	0	3	5
Uzbekistan	6	5	0	0	0	0	1
Spain	4275	1843	520	491	416	480	525
Western Sahara	1	1	0	0	0	0	0
Greece	209	110	21	24	16	15	23
Singapore	3604	1439	416	363	304	437	645
New Zealand	1162	573	118	141	92	127	111
Hungary	822	597	51	43	40	36	55
Syria	3	1	0	0	2	0	0
Armenia	5	1	1	1	0	1	1
Yemen	4	0	0	0	3	0	1
Iraq	3	1	0	0	0	1	1
Iran	19	3	0	5	2	6	3
Israel	4198	1795	428	464	366	511	634
Italy	18019	9541	1852	1761	1423	1627	1815
India	1895	960	175	197	146	189	228
Indonesia	194	95	23	8	23	19	26
United Kingdom	24822	14304	2012	2233	1911	2087	2275
Jordan	17	6	6	2	1	1	1
Vietnam	24	8	2	2	1	4	7
Zambia	2	2	0	0	0	0	0
Jersey Island	7	7	0	0	0	0	0
Chad	1	0	0	0	0	0	1
Gibraltar	17	12	0	0	2	0	3
Chile	93	31	11	17	5	12	17
Central African Republic	2	2	0	0	0	0	0

**Table 7 Three Kinds of Patents Granted from Home, 1985–2011**

Region	Accumulated Total	1985–2006	2007	2008	2009	2010	2011
Total	4268333	1488028	301632	352406	501786	740620	883861
Beijing	229433	99412	14954	17747	22921	33511	40888
Tianjin	74004	29238	5584	6790	7404	11006	13982
Hebei	80318	41445	5358	5496	6839	10061	11119
Shanxi	31537	14313	1992	2279	3227	4752	4974
Inner Mongolia	18116	9623	1313	1328	1494	2096	2262
Liaoning	139706	70959	9615	10665	12198	17093	19176
Jilin	41226	22849	2855	2984	3275	4343	4920
Heilongjiang	66089	33117	4303	4574	5079	6780	12236
Shanghai	273012	92975	24481	24468	34913	48215	47960
Jiangsu	607198	105508	31770	44438	87286	138382	199814
Zhejiang	555524	135724	42069	52953	79945	114643	130190
Anhui	83664	18618	3413	4346	8594	16012	32681
Fujian	110744	43844	7761	7937	11282	18063	21857
Jiangxi	31864	14686	2069	2295	2915	4349	5550
Shandong	293896	99540	22821	26688	34513	51490	58844
Henan	100988	37634	6998	9133	11425	16539	19259
Hubei	96676	33932	6616	8374	11357	17362	19035
Hunan	92125	42059	5687	6133	8309	13873	16064
Guangdong	702824	252965	56451	62031	83621	119343	128413
Guangxi	30737	15851	1907	2228	2702	3647	4402
Chongqing	68018	23098	4994	4820	7501	12080	15525
Sichuan	152804	48710	9935	13369	20132	32212	28446
Guizhou	20972	8961	1727	1728	2084	3086	3386
Yunan	30875	15770	2139	2021	2923	3823	4199
Tibet	977	258	68	93	292	124	142

Continued

Region	Accumulated Total	1985-2006	2007	2008	2009	2010	2011
Shaanxi	59988	24362	3451	4392	6087	10034	11662
Gansu	14688	7091	1025	1047	1274	1868	2383
Qinghai	3023	1403	222	228	368	264	538
Ningxia	6520	3014	296	606	910	1081	613
Xinjiang	19666	9569	1534	1493	1866	2562	2642
Hainan	5805	3059	296	341	630	714	765
Hong Kong	27608	16171	2106	1892	2250	2601	2588
Macao	224	117	16	23	15	34	19
Taiwan	197484	112153	15806	17466	16155	18577	17327
(Guangzhou)	104338	43234	8526	8078	11082	15079	18339
(Changchun)	17336	6157	1666	1814	1931	2622	3146
(Wuhan)	54743	16764	4044	5329	6853	10165	11588
(Nanjing)	47762	10950	3787	4816	6640	9150	12419
(Hangzhou)	104821	16505	7564	9706	15465	26506	29075
(Xi'an)	41256	13425	2529	3285	4706	8037	9274
(Jinan)	46722	10712	4114	4567	6389	9595	11345
(Shenyang)	46971	26761	2848	3105	3636	5165	5456
(Chengdu)	98087	16948	7239	10342	16349	25981	21228
(Dalian)	36770	11545	2957	3507	4447	6199	8115
(Xiamen)	26939	8696	2402	2330	2986	5040	5485
(Harbin)	31594	13886	2282	2400	2792	3974	6260
(Shenzhen)	178426	43861	15552	18805	25894	34951	39363
(Qingdao)	45832	18613	3595	3311	4432	6796	9085
(Ningbo)	113480	15649	8845	9882	15824	25971	37309
(XPCC)	911	—	—	153	211	240	307

**Table 8 Three Kinds of Patent Granted for Home in 2011**

Region	Accumulated Total	Invention	Utility Model	Design
Total	883861	112347	405086	366428
Beijing	40888	15880	19628	5380
Tianjin	13982	2528	8961	2493
Hebei	11119	1469	7490	2160
Shanxi	4974	1114	3036	824
Inner Mongolia	2262	364	1415	483
Liaoning	19176	3164	13584	2428
Jilin	4920	1202	2993	725
Heilongjiang	12236	1953	5855	4428
Shanghai	47960	9160	23351	15449
Jiangsu	199814	11043	53413	135358
Zhejiang	130190	9135	56030	65025
Anhui	32681	2026	16128	14527
Fujian	21857	1945	12697	7215
Jiangxi	5550	679	3088	1783
Shandong	58844	5856	43443	9545
Henan	19259	2462	13032	3765
Hubei	19035	3160	11147	4728
Hunan	16064	2606	8732	4726
Guangdong	128413	18242	51402	58769
Guangxi	4402	634	2564	1204
Chongqing	15525	1865	8749	4911
Sichuan	28446	3270	12533	12643
Guizhou	3386	596	1885	905
Yunan	4199	1006	2217	976

Continued

Region	Accumulated Total	Invention	Utility Model	Design
Tibet	142	27	20	95
Shaanxi	11662	3139	6958	1565
Gansu	2383	552	1536	295
Qinghai	538	70	147	321
Ningxia	613	103	418	92
Xinjiang	2642	302	1974	366
Hainan	765	272	334	159
Hong Kong	2588	360	815	1413
Macao	19	9	8	2
Taiwan	17327	6154	9503	1670
(Guangzhou)	18339	3146	8031	7162
(Changchun)	3146	925	1832	389
(Wuhan)	11588	2585	6631	2372
(Nanjing)	12419	3457	5767	3195
(Hangzhou)	29075	4509	14532	10034
(Xi'an)	9274	2738	5533	1003
(Jinan)	11345	1623	8999	723
(Shenyang)	5456	1302	3139	1015
(Chengdu)	21228	2403	8483	10342
(Dalian)	8115	1116	6181	818
(Xiamen)	5485	617	3149	1719
(Harbin)	6260	1663	2490	2107
(Shenzhen)	39363	11826	16309	11228
(Qingdao)	9085	1135	5966	1984
(Ningbo)	37309	1625	12945	22739
(XPCC)	307	43	253	11



**Table 9 Patents Granted for Foreign Applications, 1985–2011**

Countries and Regions	Total	1985–2006	2007	2008	2009	2010	2011
Total	589539	248750	50150	59576	80206	74205	76652
Algeria	1	0	0	0	0	1	0
Afghanistan	9	0	0	0	0	7	2
Argentina	33	9	3	2	9	6	4
United Arab Emirates	123	7	64	35	9	4	4
Oman	1	0	0	0	0	1	0
Azerbaijan	1	0	0	0	0	0	1
Egypt	15	5	1	1	1	1	6
Ireland	513	169	62	48	56	78	100
Estonia	12	4	0	0	2	4	2
Andorra	4	1	0	1	1	1	0
Antigua and Barbuda	5	0	0	0	2	3	0
Austria	2487	1182	179	216	294	274	342
Australia	4687	2143	431	451	577	604	481
Barbados	137	17	5	12	20	44	39
Bahamas	117	61	6	10	11	19	10
Pakistan	6	4	1	0	1	0	0
Paraguay	1	0	0	0	1	0	0
Bahrain Island	1	1	0	0	0	0	0
Panama	210	94	29	31	17	20	19
Brazil	555	223	42	39	80	94	77
Belarus	14	6	3	4	1	0	0
Bermuda	248	53	13	25	17	57	83
Bulgaria	38	21	5	2	4	4	2
Belgium	2369	1015	194	215	258	292	395
Iceland	58	18	2	7	6	10	15
Puerto Rico	2	0	0	0	2	0	0
Poland	162	52	20	16	22	16	36
Belize	26	1	0	1	14	6	4
DPRK	9	3	0	1	1	1	3

Continued

Countries and Regions	Total	1985-2006	2007	2008	2009	2010	2011
Denmark	3575	1593	317	308	423	466	468
Germany	50393	21393	4064	4729	6658	6451	7098
Dominican Republic	3	2	0	0	0	1	0
Russia	701	349	38	55	84	89	86
Ecuador	2	1	0	0	0	0	1
France	22191	10259	1861	1849	3004	2690	2528
Philippine	49	22	2	3	9	8	5
Fiji	9	0	0	9	0	0	0
Finland	6053	2778	433	559	852	752	679
Malvinas Islands (Falkland Islands)	1	1	0	0	0	0	0
Colombia	23	4	0	8	8	0	3
Costa Rica	1	1	0	0	0	0	0
Georgia	4	1	0	0	0	3	0
Cuba	60	28	8	8	7	4	5
Kazakhstan	12	5	0	3	0	2	2
Haiti	1	0	0	1	0	0	0
The Republic of Korea	49267	17591	4373	5605	7950	7117	6631
Netherland	17831	7800	1441	1662	2523	2177	2228
Netherlands Antilles	184	96	26	21	19	11	11
Honduras	1	0	0	0	0	1	0
Kyrgyzstan	2	0	0	1	0	1	0
Canada	4397	1666	335	443	599	677	677
Cabon	2	2	0	0	0	0	0
Czech Republic	485	106	109	68	81	62	59
Czechoslovakia	32	32	0	0	0	0	0
Zimbabwe	4	3	0	0	1	0	0
Cameroon	0	0	0	0	0	0	0
Cayman Islands	682	116	42	59	81	161	223
Kuwait	8	6	0	0	1	1	0
Croatia	59	33	12	5	3	3	3

## Continued

Countries and Regions	Total	1985-2006	2007	2008	2009	2010	2011
Kenya	1	0	0	0	0	0	1
The Cook Islands	18	2	2	2	1	5	6
Latvia	17	3	4	1	1	1	7
Lesotho	1	1	0	0	0	0	0
Lebanon	8	5	0	1	0	0	2
Lithuania	2	2	0	0	0	0	0
Liberia	3	3	0	0	0	0	0
Liechtenstein	876	375	89	59	179	86	88
Luxemburg	533	248	32	48	69	74	62
Romania	12	5	1	2	0	3	1
Madagascar	2	2	0	0	0	0	0
Maldives	1	1	0	0	0	0	0
Malta	20	5	2	1	1	4	7
Malaysia	609	212	33	62	102	124	76
Mali	2	0	1	0	0	0	1
Marshall Islands	1	0	0	0	0	0	1
Mauritius	85	26	8	13	11	19	8
Unite States	117881	50944	9709	11195	15273	14938	15822
Mongolia	5	4	0	0	1	0	0
Bangladesh	2	0	2	0	0	0	0
Peru	1	1	0	0	0	0	0
Morocco	12	4	3	1	0	0	4
Monaco	71	41	4	5	15	2	4
Mexico	141	29	9	13	45	14	31
Nambia	1	0	0	0	0	1	0
South Africa	424	185	49	40	59	43	48
Yugoslavia	23	20	0	2	0	0	1
Nigeria	5	3	1	0	0	1	0
Norway	1222	580	94	110	163	129	146
Portugal	78	22	3	16	14	6	17
Japan	241640	100190	21123	26370	33804	29516	30637
Sweden	9598	4571	678	724	1189	1186	1250

Continued

Countries and Regions	Total	1985-2006	2007	2008	2009	2010	2011
Switzerland	16262	7960	1290	1310	1729	1932	2041
El Salvador	1	1	0	0	0	0	0
Samoa	80	33	7	8	18	4	10
Serbia	2	0	0	0	0	1	1
Senegal	1	0	0	0	1	0	0
Cyprus	98	27	6	5	16	12	32
Seychelles	19	2	0	1	6	8	2
Saudi Arabia	367	132	104	41	51	20	19
San Marino	8	3	1	0	4	0	0
Saint Vincent and the Grenadines	1	1	0	0	0	0	0
Sri Lanka	29	27	0	1	0	0	1
Slovak	41	11	1	8	13	3	5
Slovenia	101	42	3	8	12	18	18
Swaziland	1	1	0	0	0	0	0
Thailand	374	236	40	19	21	41	17
Trinidad and Tobago	1	1	0	0	0	0	0
Tunisia	3	0	0	2	0	1	0
Turkey	380	96	12	32	104	74	62
Vanuatu	5	3	0	1	0	0	1
Virgin Islands	1396	566	151	163	130	179	207
Venezuela	35	29	2	0	1	1	2
Brunei Darussalam	57	5	9	2	12	19	10
Uganda	2	0	2	0	0	0	0
Ukraine	40	25	2	1	4	6	2
Uruguay	8	4	2	1	0	1	0
Uzbekistan	3	3	0	0	0	0	0
Spain	2156	827	239	254	232	297	307
Greece	92	30	3	12	13	18	16
Singapore	1738	590	123	140	234	345	306
New Zealand	527	201	32	55	92	86	61

## Continued

Countries and Regions	Total	1985–2006	2007	2008	2009	2010	2011
Hungary	313	223	15	23	14	15	23
Syria	3	1	0	0	0	2	0
Armenia	2	1	0	0	0	1	0
Yemen	4	0	0	0	0	3	1
Iraq	1	0	0	0	0	1	0
Iran	7	0	0	1	1	2	3
Israel	1393	485	139	185	188	168	228
Italy	10221	4299	983	1003	1291	1303	1342
India	759	317	72	105	102	77	86
Indonesia	137	61	18	13	5	23	17
United Kingdom	11640	6021	918	1000	1266	1164	1271
Jordan	8	4	0	0	3	1	0
Vietnam	10	2	4	0	0	0	4
Jersey Island	4	3	0	1	0	0	0
Gibraltar	11	7	1	1	1	0	1
Chile	25	7	3	2	6	3	4
Central African Republic	2	2	0	0	0	0	0

**Table 10 Valid Patents of Domestic Origin (By the end of 2011)**

Region	Total	Invention	Utility Model	Design
Total	2303015	351288	1109958	841769
Beijing	131255	52522	60727	18006
Tianjin	38690	8159	23612	6919
Hebei	33813	4321	22546	6946
Shanxi	14764	3359	9091	2314
Inner Mongolia	7162	1112	4081	1969
Liaoning	54320	10452	36895	6973
Jilin	15594	3771	9224	2599
Heilongjiang	29042	5784	16930	6328
Shanghai	149202	31117	72699	45386
Jiangsu	371322	29385	131694	210243
Zhejiang	331703	25728	143255	162720
Anhui	60400	4782	31237	24381
Fujian	58969	5025	32377	21567
Jiangxi	14237	1862	8130	4245
Shandong	139884	15685	97598	26601
Henan	50785	6129	33889	10767
Hubei	50906	8868	30503	11535
Hunan	43108	8457	23751	10900
Guangdong	400571	58648	160770	181153
Guangxi	13149	1835	7523	3791
Chongqing	41070	4750	21840	14480
Sichuan	74455	9262	32579	32614
Guizhou	11240	2124	6741	2375
Yunan	13683	3061	6801	3821

## Continued

Region	Total	Invention	Utility Model	Design
Tibet	390	83	90	217
Shaanxi	31544	8197	19131	4216
Gansu	6728	1565	4187	976
Qinghai	1195	206	428	561
Ningxia	2133	322	1239	572
Xinjiang	8603	902	6286	1415
Hainan	2442	682	1004	756
Hong Kong	10913	1755	3324	5834
Macao	95	21	50	24
Taiwan	89648	31357	49726	8565
(Guangzhou)	55874	9076	23729	23069
(Changchun)	9693	2753	5498	1442
(Wuhan)	31819	7426	18324	6069
(Nanjing)	33081	10198	15932	6951
(Hangzhou)	72834	13204	34911	24719
(Xi'an)	24888	7060	14866	2962
(Jinan)	26264	4305	19234	2725
(Shenyang)	17233	4228	10141	2864
(Chengdu)	53668	6771	21591	25306
(Dalian)	18334	3527	12864	1943
(Xiamen)	17016	1853	9584	5579
(Harbin)	15468	4646	7628	3194
(Shenzhen)	131492	40495	54085	36912
(Qingdao)	24317	3173	15068	6076
(Ningbo)	86604	4545	33222	48837
(XPCC)	836	89	679	68

**Table 11 Valid Patents of ForeignOrigin (By the end of 2011)**

Countries and Regions	Total	Invention	Utility Model	Design
Total	436891	345651	10638	80602
Algeria	1	0	1	0
Afghanistan	9	0	0	9
Argentina	20	10	6	4
United Arab Emirates	13	1	0	12
Oman	1	1	0	0
Azerbaijan	1	1	0	0
Egypt	10	2	2	6
Ireland	401	275	21	105
Estonia	7	3	2	2
Andorra	5	4	0	1
Antigua and Barbuda	6	3	0	3
Austria	1833	1457	60	316
Australia	3112	1960	115	1037
Barbados	156	141	0	15
Bahamas	89	46	10	33
Pakistan	1	0	0	1
Bahrain Island	3	3	0	0
Panama	166	159	2	5
Brazil	421	240	28	153
Bermuda	214	160	34	20
Bulgaria	12	5	1	6
Belgium	1764	1484	17	263
Iceland	48	48	0	0
Puerto Rico	2	0	0	2
Poland	112	47	4	61
Bosnia and Herzegovina	2	2	0	0
Belize	21	2	17	2
DPRK	5	4	1	0



## Continued

Countries and Regions	Total	Invention	Utility Model	Design
Denmark	2660	1852	72	736
Germany	37903	29252	871	7780
Dominican Republic	2	2	0	0
Russia	400	257	87	56
Ecuador	2	2	0	0
France	15746	12232	220	3294
Philippine	24	6	3	15
Finland	4671	3843	80	748
Colombia	16	8	0	8
Costa Rica	1	1	0	0
Georgia	3	0	0	3
Cuba	50	50	0	0
Kazakhstan	8	5	3	0
The Republic of Korea	36247	29450	776	6021
Netherland	11960	10119	115	1726
Netherlands Antilles	97	95	0	2
Kyrgyzstan	1	1	0	0
Canada	3276	2541	126	609
Czech Republic	374	63	28	283
Zimbabwe	1	1	0	0
Cayman Islands	804	261	168	375
Kuwait	4	3	0	1
Croatia	18	16	0	2
Kenya	1	0	0	1
The Cook Islands	18	2	0	16
Latvia	12	7	1	4
Lebanon	6	0	4	2
Liechtenstein	598	317	0	281
Luxemburg	377	259	41	77
Romania	8	6	1	1
Madagascar	2	2	0	0
Malta	16	16	0	0
Malaysia	413	119	50	244

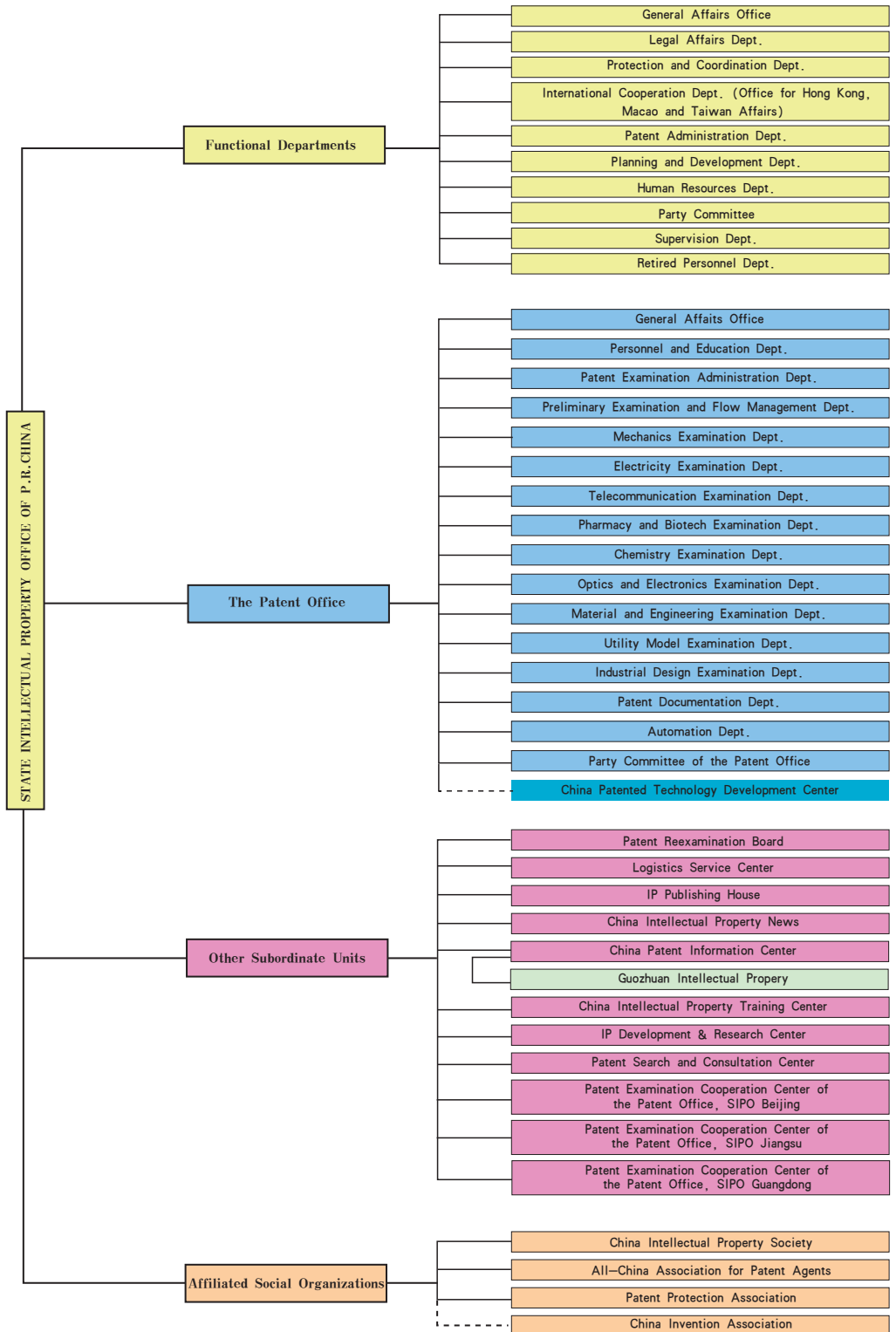
## Continued

Countries and Regions	Total	Invention	Utility Model	Design
Mali	1	0	1	0
Marshall Islands	1	0	1	0
Mauritius	73	27	20	26
Unite States	83476	66214	3586	13676
Morocco	6	4	0	2
Monaco	43	32	0	11
Mexico	118	39	5	74
Nambia	1	1	0	0
South Africa	307	271	14	22
Yugoslavia	4	4	0	0
Nigeria	3	0	0	3
Norway	882	720	4	158
Portugal	61	42	1	18
Japan	187387	153140	2700	31547
Sweden	7481	6234	127	1120
Switzerland	11348	8620	239	2489
El Salvador	1	1	0	0
Samoa	45	5	33	7
Serbia	2	1	1	0
Senegal	1	0	0	1
Cyprus	89	63	2	24
Seychelles	30	18	6	6
Saudi Arabia	267	76	4	187
Saint Kitts and Nevi	1	1	0	0
San Marino	7	1	3	3
Saint Vincent and the Grenadines	1	1	0	0
Sri Lanka	2	1	1	0
Slovak	42	16	1	25
Slovenia	70	54	0	16
Thailand	140	34	25	81
Tonga	1	0	0	1

## Continued

Countries and Regions	Total	Invention	Utility Model	Design
Tunisia	1	1	0	0
Turkey	314	97	25	192
Vanuatu	1	1	0	0
Virgin Islands	1048	401	206	441
Venezuela	16	15	0	1
Brunei Darussalam	58	19	18	21
Uganda	2	0	0	2
Ukraine	23	18	4	1
Uruguay	4	3	1	0
Uzbekistan	1	1	0	0
Spain	1363	599	66	698
Greece	67	48	1	18
Singapore	1427	971	108	348
New Zealand	354	234	13	107
Hungary	120	100	7	13
Syria	2	0	0	2
Armenia	2	1	0	1
Yemen	4	0	0	4
Iraq	2	0	1	1
Iran	6	1	3	2
Israel	1004	804	23	177
Italy	7126	4176	182	2768
India	500	391	12	97
Indonesia	57	10	3	44
United Kingdom	7307	5271	217	1819
Jordan	3	0	2	1
Vietnam	5	1	2	2
Jersey Island	3	3	0	0
Gibraltar	6	5	0	1
Chile	20	14	3	3

## 2. Organization Chart



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