

Appendix

1. Statistics

Table 1 Applications for Three Kinds of Patents Received from Home and Abroad, 2003–2013

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	11494010	3864342	3868508	3761160	10325742	2864237	3838511	3622994	1168268	1000105	29997	138166
Average Growth Rate (%)	22.6%	23.6%	22.8%	21.2%	24.2%	29.9%	22.8%	21.8%	10.6%	10.4%	19.9%	9.3%
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%
2012	2050649	652777	740290	657582	1912151	535313	734437	642401	138498	117464	5853	15181
	25.5%	24.0%	26.4%	26.1%	27.1%	28.7%	26.3%	26.6%	7.6%	6.2%	40.6%	9.0%
2013	2377061	825136	892362	659563	2234560	704936	885226	644398	142501	120200	7136	15165
	15.9%	26.4%	20.5%	0.3%	16.9%	31.7%	20.5%	0.3%	2.9%	2.3%	21.9%	-0.1%



Table 2 Domestic Applications for Three Kinds of Patents According to Service and Non-Service, 2003–2013

	Non-Service	Service				
		Sub-total	Colleges and Universities	Scientific Research Institutions	Factories and Enterprises	Organizations
Accumulated Total	4156948	6169030	695296	250356	5128538	94840
Average Growth Rate (%)	16.7%	30.8%	35.4%	23.1%	30.7%	34.6%
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%
2012	618835	1293316	132648	45119	1097220	18329
	14.1%	34.4%	20.4%	19.0%	37.2%	23.3%
2013	679490	1555070	167656	53032	1310058	24324
	9.8%	20.2%	26.4%	17.5%	19.4%	32.7%

Table 3 Three Kinds of Patents Granted for Home and Abroad, 2003–2013

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	6543701	1219764	2873648	2450289	5868339	698849	2848732	2320758	675362	520915	24916	129531
Average Growth Rate (%)	23.2%	22.9%	25.4%	20.4%	24.3%	33.7%	25.4%	21.0%	13.9%	13.7%	29.3%	11.2%
2003	182226	37154	68906	76166	149588	11404	68291	69893	32638	25750	615	6273
2004	37.6%	73.0%	19.9%	42.5%	33.4%	94.3%	19.6%	42.2%	60.8%	65.0%	56.9%	45.9%
	190238	49360	70623	70255	151328	18241	70019	63068	38910	31119	604	7187
2005	4.4%	32.9%	2.5%	-7.8%	1.2%	60.0%	2.5%	-9.8%	19.2%	20.9%	-1.8%	14.6%
	214003	53305	79349	81349	171619	20705	78137	72777	42384	32600	1212	8572
2006	12.5%	8.0%	12.4%	15.8%	13.4%	13.5%	11.6%	15.4%	8.9%	4.8%	100.7%	19.3%
	268002	57786	107655	102561	223860	25077	106312	92471	44142	32709	1343	10090
2007	25.2%	8.4%	35.7%	26.1%	30.4%	21.1%	36.1%	27.1%	4.1%	0.3%	10.8%	17.7%
	351782	67948	150036	133798	301632	31945	148391	121296	50150	36003	1645	12502
2008	31.3%	17.6%	39.4%	30.5%	34.7%	27.4%	39.6%	31.2%	13.6%	10.1%	22.5%	23.9%
	411982	93706	176675	141601	352406	46590	175169	130647	59576	47116	1506	10954
2009	17.1%	37.9%	17.8%	5.8%	16.8%	45.8%	18.0%	7.7%	18.8%	30.9%	-8.4%	-12.4%
	581992	128489	203802	249701	501786	65391	202113	234282	80206	63098	1689	15419
2010	41.3%	37.1%	15.4%	76.3%	42.4%	40.4%	15.4%	79.3%	34.6%	33.9%	12.2%	40.8%
	814825	135110	344472	335243	740620	79767	342256	318597	74205	55343	2216	16646
2011	40.0%	5.2%	69.0%	34.3%	47.6%	22.0%	69.3%	36.0%	-7.5%	-12.3%	31.2%	8.0%
	960513	172113	408110	380290	883861	112347	405086	366428	76652	59766	3024	13862
2012	17.9%	27.4%	18.5%	13.4%	19.3%	40.8%	18.4%	15.0%	3.3%	8.0%	36.5%	-16.7%
	1255138	217105	571175	466858	1163226	143847	566750	452629	91912	73258	4425	14229
2013	30.7%	26.1%	40.0%	22.8%	31.6%	28.0%	39.9%	23.5%	19.9%	22.6%	46.3%	2.6%
	1313000	207688	692845	412467	1228413	143535	686208	398670	84587	64153	6637	13797
	4.6%	-4.3%	21.3%	-11.7%	5.6%	-0.2%	21.1%	-11.9%	-8.0%	-12.4%	50.0%	-3.0%

Table 4 Applications for Patents Received from Home, 1985–2013

Region	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Total	11646748	4008328	877611	1109428	1504670	1912151	2234560
Beijing	669449	268321	50236	57296	77955	92305	123336
Tianjin	289622	103612	19624	25973	38489	41009	60915
Hebei	178403	86292	11361	12295	17595	23241	27619
Shanxi	95958	32795	6822	7927	12769	16786	18859
Inner Mongolia	41866	21509	2484	2912	3841	4732	6388
Liaoning	365125	180856	25803	34216	37102	41152	45996
Jilin	95343	54846	5934	6445	8196	9171	10751
Heilongjiang	182467	76878	9014	10269	23432	30610	32264
Shanghai	670886	288102	62241	71196	80215	82682	86450
Jiangsu	2160830	425091	174329	235873	348381	472656	504500
Zhejiang	1340147	390470	108482	120742	177066	249373	294014
Anhui	328580	48269	16386	47128	48556	74888	93353
Fujian	263828	95476	17559	21994	32325	42773	53701
Jiangxi	86644	36044	5224	6307	9673	12458	16938
Shandong	840934	299838	66857	80856	109599	128614	155170
Henan	283261	105085	19589	25149	34076	43442	55920
Hubei	318810	115651	27206	31311	42510	51316	50816
Hunan	251838	106948	15948	22381	29516	35709	41336
Guangdong	1599646	631015	125673	152907	196272	229514	264265
Guangxi	90523	36162	4277	5117	8106	13610	23251
Chongqing	209143	52837	13482	22825	32039	38924	49036
Sichuan	400810	129034	33047	40230	49734	66312	82453
Guizhou	68538	23363	3709	4414	8351	11296	17405
Yunnan	71169	32969	4633	5645	7150	9260	11512
Tibet	1883	890	195	162	263	170	203
Shaanxi	236068	64427	15570	22949	32227	43608	57287
Gansu	48239	17481	2676	3558	5287	8261	10976

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Region	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Qinghai	7404	3628	499	602	732	844	1099
Ningxia	15605	7295	1277	739	1079	1985	3230
Xinjiang	48647	22211	2872	3560	4736	7044	8224
Hainan	14937	7206	1040	1019	1489	1824	2359
Hong Kong	41169	26117	2411	2980	3171	3168	3322
Macao	585	267	38	32	36	65	147
Taiwan	328391	217343	21113	22419	22702	23349	21465
(Guangzhou)	238580	99925	16514	20801	28087	33439	39814
(Changchun)	47575	21122	3550	4238	5391	6161	7113
(Wuhan)	160036	58727	14600	15045	21879	24105	25680
(Nanjing)	206966	44423	14221	19275	31130	42782	55135
(Hangzhou)	275109	66352	26074	29801	40786	53889	58207
(Xi'an)	186401	42333	12772	19485	27717	36983	47111
(Jinan)	140982	47445	13701	15543	18581	23129	22583
(Shenyang)	118045	62291	7708	10051	11906	12899	13190
(Chengdu)	269989	66861	26130	31261	37466	48901	59370
(Dalian)	132404	47796	11340	17442	16279	18171	21376
(Xiamen)	59951	20070	4914	5525	8315	9962	11165
(Harbin)	99789	37460	5525	6526	13013	17041	20224
(Shenzhen)	479434	170342	42279	49430	63522	73169	80692
(Qingdao)	163666	48986	8754	10735	19577	27004	48610
(Ningbo)	309326	55689	22686	26399	47571	73647	83334
(Xinjiang Production and Construction Corps)	3214	320	314	430	571	709	870

Table 5 Applications for Three Kinds of Patents Received from Home in 2013

Region	Total	Invention	Utility Model	Design
Total	2234560	704936	885226	644398
Beijing	123336	67554	47586	8196
Tianjin	60915	21946	34134	4835
Hebei	27619	7329	15781	4509
Shanxi	18859	6025	7527	5307
Inner Mongolia	6388	1935	3213	1240
Liaoning	45996	25292	18077	2627
Jilin	10751	4549	5141	1061
Heilongjiang	32264	10338	16118	5808
Shanghai	86450	39157	35584	11709
Jiangsu	504500	141259	128898	234343
Zhejiang	294014	42744	127122	124148
Anhui	93353	34857	45148	13348
Fujian	53701	9884	25769	18048
Jiangxi	16938	3931	7818	5189
Shandong	155170	67642	73862	13666
Henan	55920	15580	29420	10920
Hubei	50816	18189	26163	6464
Hunan	41336	11938	18327	11071
Guangdong	264265	68990	93592	101683
Guangxi	23251	14382	6755	2114
Chongqing	49036	12562	24865	11609
Sichuan	82453	23510	33488	25455
Guizhou	17405	3988	6456	6961
Yunnan	11512	3961	5705	1846
Tibet	203	92	57	54
Shaanxi	57287	26487	26157	4643
Gansu	10976	3735	5453	1788

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Region	Total	Invention	Utility Model	Design
Qinghai	1099	520	364	215
Ningxia	3230	1792	1187	251
Xinjiang	8224	2081	4620	1523
Hainan	2359	921	994	444
Hong Kong	3322	957	775	1590
Macao	147	62	54	31
Taiwan	21465	10747	9016	1702
(Guangzhou)	39814	12174	14601	13039
(Changchun)	7113	3398	3184	531
(Wuhan)	25680	9735	14048	1897
(Nanjing)	55135	22482	15054	17599
(Hangzhou)	58207	14054	25419	18734
(Xi'an)	47111	23534	22150	1427
(Jinan)	22583	11344	10051	1188
(Shenyang)	13190	7572	4647	971
(Chengdu)	59370	17327	22837	19206
(Dalian)	21376	13919	6783	674
(Xiamen)	11165	2971	5781	2413
(Harbin)	20224	8724	8734	2766
(Shenzhen)	80692	32200	28118	20374
(Qingdao)	48610	32901	12734	2975
(Ningbo)	83334	9811	33151	40372
(Xinjiang Production and Construction Corps)	870	345	449	76

Countries and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Total	1446790	825181	99075	112858	128677	138498	142501
Andorra	15	6	4	1	1	1	2
UAE	206	123	12	7	20	11	33
Afghanistan	11	0	2	6	2	1	0
Antigua and Barbuda	11	6	1	1	3	0	0
Anguilla	3	1	1	0	0	1	0
Armenia	5	3	0	1	1	0	0
Netherlands Antilles	315	262	16	16	6	8	7
Argentina	127	82	5	12	10	11	7
Austria	6613	3243	413	550	697	759	951
Australia	11180	6938	720	822	867	957	876
Aruba	1	1	0	0	0	0	0
Azerbaijan	5	1	0	1	1	2	0
Bosnia and Herzegovina	1	0	0	0	0	0	1
Barbados	772	252	79	84	106	99	152
Bengal	4	2	0	1	0	0	1
Belgium	6762	3575	516	611	669	693	698
Bulgaria	93	74	1	5	4	4	5
Bahrain Island	3	3	0	0	0	0	0
Burundi	1	1	0	0	0	0	0
Benin	1	0	0	0	1	0	0
Bermuda	971	367	116	83	121	129	155
Brunei Darussalam	88	34	15	20	6	8	5
Bolivia	1	1	0	0	0	0	0
Brazil	1548	734	121	166	203	159	165
Bahamas	233	152	26	18	17	13	7
Belarus	28	22	6	0	0	0	0
Belize	58	19	18	1	2	4	14
Canada	12812	6906	989	1137	1191	1352	1237
Central-African	2	2	0	0	0	0	0
Switzerland	38840	22186	2823	3067	3293	3545	3926
Cook Islands	18	5	3	2	6	0	2

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Countries and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Chile	131	59	5	12	17	21	17
Cameroon	2	2	0	0	0	0	0
Columbia	63	26	8	6	7	10	6
Costa Rica	7	3	0	0	0	0	4
Czechoslovakia	72	72	0	0	0	0	0
Serbia and Montenegro	2	2	0	0	0	0	0
Cuba	153	117	7	7	6	8	8
Cyprus	277	133	17	29	34	36	28
Czech	853	418	67	68	72	154	74
Germany	136451	71887	9694	11297	13096	14552	15925
Denmark	9383	4905	739	857	937	884	1061
Commonwealth of Dominica	3	3	0	0	0	0	0
Dominican Republic	5	2	0	0	0	0	3
Algeria	6	2	1	1	0	2	0
Ecuador	13	6	1	0	3	2	1
Estonia	46	13	6	7	5	11	4
Egypt	50	25	1	1	7	15	1
Western Sahara	1	1	0	0	0	0	0
Spain	5356	2854	416	480	525	548	533
Finland	14356	8539	1049	1215	1076	1255	1222
Fiji	10	10	0	0	0	0	0
Falkland Islands (Malvinas Islands)	1	1	0	0	0	0	0
France	53276	30829	3624	3994	4575	5128	5126
Britain	29550	18549	1911	2087	2275	2273	2455
Grenada	1	0	1	0	0	0	0
Georgia	9	5	3	0	0	1	0
Gibraltar	23	12	2	0	3	5	1
Greece	248	155	16	15	23	26	13
Guatemala	1	0	1	0	0	0	0
Honduras	1	0	1	0	0	0	0
Croatia	134	112	6	3	3	5	5
Haiti	1	1	0	0	0	0	0
Hungary	891	691	40	36	55	36	33
Indonesia	223	126	23	19	26	16	13

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Countries and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Ireland	1768	838	171	157	176	213	213
Israel	5553	2687	366	511	634	686	669
India	2461	1332	146	189	228	264	302
Iraq	7	1	0	1	1	2	2
Iran	20	8	2	6	3	0	1
Iceland	183	94	28	25	17	8	11
Italy	22031	13154	1423	1627	1815	2020	1992
Jersey Island	7	7	0	0	0	0	0
Jamaica	3	0	0	0	0	3	0
Jordan	24	14	1	1	1	2	5
Japan	516206	300141	34381	38241	45228	49678	48537
Kenya	5	0	0	0	2	2	1
Kyrgyzstan	5	3	0	1	0	1	0
Saint Kitts and Nevis	6	3	0	0	0	1	2
DPRK	24	17	1	1	0	3	2
Republic of Korea	117356	67892	7113	8782	9860	10793	12916
Kuwait	16	9	1	1	2	1	2
Cayman Islands	3563	684	331	353	691	805	699
Kazakhstan	33	15	3	4	4	2	5
Lebanon	22	8	0	1	5	4	4
Liechtenstein	1630	1041	111	83	155	135	105
Sri Lanka	52	47	0	0	0	2	3
Liberia	3	3	0	0	0	0	0
Lesotho	1	1	0	0	0	0	0
Lithuania	12	3	0	2	1	3	3
Luxembourg	1544	678	101	136	215	187	227
Latvia	57	20	7	9	11	5	5
Morocco	21	13	0	2	2	2	2
Monaco	134	101	4	7	7	7	8
Moldova	3	1	0	1	0	1	0
Madagascar	2	2	0	0	0	0	0
Marshall Islands	9	2	0	2	2	1	2
Macedonia	1	0	0	0	0	0	1
Mali	33	7	0	3	10	7	6

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Countries and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Mongolia	5	1	0	0	3	0	1
Malta	95	24	21	16	13	7	14
Mauritius	145	87	15	9	10	4	20
Maldives	2	2	0	0	0	0	0
Malawi	2	2	0	0	0	0	0
Mexico	439	209	23	54	53	51	49
Malaysia	1283	651	114	129	141	135	113
Namibia	2	2	0	0	0	0	0
Niger	1	1	0	0	0	0	0
Nigeria	13	5	1	2	0	0	5
Netherlands	45167	29070	3372	3329	3473	3035	2888
Norway	3068	1791	211	261	275	262	268
Nepal	3	0	0	0	0	3	0
New Zealand	1451	832	92	127	111	132	157
Oman	3	3	0	0	0	0	0
Panama	304	264	11	6	10	8	5
Peru	13	3	0	2	3	3	2
Philippines	88	60	8	5	5	5	5
Pakistan	17	9	1	0	2	1	4
Poland	478	193	24	50	58	72	81
Puerto Rico	16	6	0	0	0	5	5
Portugal	267	132	21	32	28	22	32
Paraguay	1	1	0	0	0	0	0
Qatar	3	0	0	0	0	2	1
Romania	36	19	1	2	6	4	4
Serbia	10	0	0	4	1	0	5
Russian Federation	2169	1314	122	147	170	183	233
Saudi Arabia	606	401	34	38	36	39	58
Seychelles	105	19	12	6	9	43	16
Sudan	1	1	0	0	0	0	0
Sweden	23275	13365	1844	1996	1963	1988	2119
Singapore	4935	2218	304	437	645	651	680

Continued

Countries and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Slovenia	282	143	22	37	38	19	23
Slovakia	85	43	7	6	11	9	9
San Marino	19	14	1	1	2	1	0
Senegal	2	2	0	0	0	0	0
El Salvador	2	1	0	0	1	0	0
Syria	3	1	2	0	0	0	0
Swaziland	1	1	0	0	0	0	0
Turks and Caicos Islands	1	0	0	0	0	1	0
Chad	1	0	0	0	1	0	0
Thailand	602	444	36	31	25	32	34
Tunisia	15	5	3	0	1	1	5
Turkey	847	355	70	77	104	101	140
Trinidad and Tobago	5	2	1	2	0	0	0
Tanzania	2	0	0	0	0	0	2
Ukraine	120	68	3	6	10	11	22
Uganda	2	2	0	0	0	0	0
United States	350577	197312	24629	28636	32023	33556	34421
Uruguay	22	14	0	3	5	0	0
Uzbekistan	7	5	0	0	1	0	1
Vatican	2	2	0	0	0	0	0
Saint Vincent and the Grenadines	6	2	0	1	1	1	1
Venezuela	54	41	2	4	1	6	0
Virgin Islands	3443	1706	241	381	286	386	443
Vietnam	53	12	1	4	7	18	11
Vanuatu	12	12	0	0	0	0	0
Samoa	213	104	8	26	20	24	31
Yemen	5	0	3	0	1	0	1
Yugoslavia	39	39	0	0	0	0	0
South Africa	1233	769	99	99	82	94	90
Zambia	2	2	0	0	0	0	0
Zimbabwe	8	8	0	0	0	0	0

Table 7 Patents Granted for Domatic Applications, 1985–2013

Region	Accumulated Total	1985–2008	2009	2010	2011	2012	2013
Total	6659972	2142066	501786	740620	883861	1163226	1228413
Beijing	342615	132113	22921	33511	40888	50511	62671
Tianjin	118642	41612	7404	11006	13982	19782	24856
Hebei	113819	52299	6839	10061	11119	15315	18186
Shanxi	47298	18584	3227	4752	4974	7196	8565
Inner Mongolia	25036	12264	1494	2096	2262	3084	3836
Liaoning	182585	91239	12198	17093	19176	21223	21656
Jilin	53375	28688	3275	4343	4920	5930	6219
Heilongjiang	106176	41994	5079	6780	12236	20268	19819
Shanghai	373200	141924	34913	48215	47960	51508	48680
Jiangsu	1116787	181716	87286	138382	199814	269944	239645
Zhejiang	946337	230746	79945	114643	130190	188463	202350
Anhui	175834	26377	8594	16012	32681	43321	48849
Fujian	178752	59542	11282	18063	21857	30497	37511
Jiangxi	49819	19050	2915	4349	5550	7985	9970
Shandong	446368	149049	34513	51490	58844	75496	76976
Henan	157261	53765	11425	16539	19259	26791	29482
Hubei	149911	48922	11357	17362	19035	24475	28760
Hunan	139729	53879	8309	13873	16064	23212	24392
Guangdong	1026852	371447	83621	119343	128413	153598	170430
Guangxi	44521	19986	2702	3647	4402	5900	7884
Chongqing	113210	32912	7501	12080	15525	20364	24828
Sichuan	241193	72014	20132	32212	28446	42218	46171
Guizhou	34946	12416	2084	3086	3386	6059	7915
Yunnan	43532	19930	2923	3823	4199	5853	6804
Tibet	1231	419	292	124	142	133	121
Shaanxi	95732	32205	6087	10034	11662	14908	20836
Gansu	23087	9163	1274	1868	2383	3662	4737

Region	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Qinghai	4052	1853	368	264	538	527	502
Ningxia	8575	3916	910	1081	613	844	1211
Xinjiang	28103	12596	1866	2562	2642	3439	4998
Hainan	8229	3696	630	714	765	1093	1331
Hong Kong	32524	20169	2250	2601	2588	2619	2297
Macao	343	156	15	34	19	26	93
Taiwan	230298	145425	16155	18577	17327	16982	15832
(Guangzhou)	152575	59838	11082	15079	18339	22045	26192
(Changchun)	25234	9637	1931	2622	3146	3884	4014
(Wuhan)	84333	26137	6853	10165	11588	13689	15901
(Nanjing)	85911	19553	6640	9150	12419	18584	19565
(Hangzhou)	186886	33775	15465	26506	29075	40554	41511
(Xi'an)	69368	19239	4706	8037	9274	11862	16250
(Jinan)	73391	19393	6389	9595	11345	14264	12405
(Shenyang)	60647	32714	3636	5165	5456	6752	6924
(Chengdu)	164088	34529	16349	25981	21228	32533	33468
(Dalian)	51577	18009	4447	6199	8115	7491	7316
(Xiamen)	42666	13428	2986	5040	5485	7479	8248
(Harbin)	51697	18568	2792	3974	6260	9788	10315
(Shenzhen)	277002	78218	25894	34951	39363	48791	49785
(Qingdao)	72414	25519	4432	6796	9085	12721	13861
(Ningbo)	231061	34376	15824	25971	37309	59175	58406
(Xinjiang Production and Construction Corps)	1827	153	211	240	307	437	479

Table 8 Three Kinds of Patents Granted for Domatic Applications in 2013

Region	Total	Invention	Utility Model	Design
Total	1228413	143535	686208	398670
Beijing	62671	20695	36301	5675
Tianjin	24856	3141	18759	2956
Hebei	18186	2008	13038	3140
Shanxi	8565	1332	5708	1525
Inner Mongolia	3836	549	2494	793
Liaoning	21656	3830	15582	2244
Jilin	6219	1496	3914	809
Heilongjiang	19819	2238	12435	5146
Shanghai	48680	10644	29859	8177
Jiangsu	239645	16790	98246	124609
Zhejiang	202350	11139	106238	84973
Anhui	48849	4241	36003	8605
Fujian	37511	2941	22152	12418
Jiangxi	9970	923	5913	3134
Shandong	76976	8913	58938	9125
Henan	29482	3173	21153	5156
Hubei	28760	4052	19655	5053
Hunan	24392	3613	15205	5574
Guangdong	170430	20084	77503	72843
Guangxi	7884	1295	5044	1545
Chongqing	24828	2360	16623	5845
Sichuan	46171	4566	24730	16875
Guizhou	7915	776	3916	3223
Yunnan	6804	1312	4322	1170
Tibet	121	44	47	30
Shaanxi	20836	4133	13936	2767
Gansu	4737	785	3205	747

Region	Total	Invention	Utility Model	Design
Qinghai	502	91	285	126
Ningxia	1211	184	899	128
Xinjiang	4998	540	3244	1214
Hainan	1331	449	691	191
Hong Kong	2297	374	753	1170
Macao	93	18	40	35
Taiwan	15832	4806	9377	1649
(Guangzhou)	26192	4057	12114	10021
(Changchun)	4014	1167	2449	398
(Wuhan)	15901	3171	11015	1715
(Nanjing)	19565	4735	10555	4275
(Hangzhou)	41511	4915	23130	13466
(Xi'an)	16250	3708	11116	1426
(Jinan)	12405	2165	9330	910
(Shenyang)	6924	1574	4413	937
(Chengdu)	33468	3196	16970	13302
(Dalian)	7316	1331	5443	542
(Xiamen)	8248	890	5408	1950
(Harbin)	10315	1837	6312	2166
(Shenzhen)	49785	10987	23244	15554
(Qingdao)	13861	1930	9810	2121
(Ningbo)	58406	2246	28367	27793
(Xinjiang Production and Construction Corps)	479	79	385	15

Table 9 Patents Granted for Foreign Applications, 1985–2013

Countires and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Total	766038	358476	80206	74205	76652	91912	84587
Andorra	5	2	1	1	0	0	1
UAE	145	106	9	4	4	10	12
Afghanistan	10	0	0	7	2	0	1
Antigua and Barbuda	6	0	2	3	0	0	1
Anguilla	2	0	0	0	0	1	1
Armenia	2	1	0	1	0	0	0
Netherlands Antilles	204	143	19	11	11	10	10
Argentina	45	14	9	6	4	5	7
Austria	3280	1577	294	274	342	381	412
Australia	5941	3025	577	604	481	670	584
Azerbaijan	1	0	0	0	1	0	0
Barbados	268	34	20	44	39	67	64
Bengal	2	2	0	0	0	0	0
Belgium	3400	1424	258	292	395	537	494
Bulgaria	44	28	4	4	2	4	2
Bahrain Island	1	1	0	0	0	0	0
Benin	1	0	0	0	0	1	0
Bermuda	451	91	17	57	83	112	91
Brunei Darussalam	68	16	12	19	10	8	3
Brazil	768	304	80	94	77	114	99
Bahamas	137	77	11	19	10	9	11
Belarus	14	13	1	0	0	0	0
Belize	42	2	14	6	4	2	14
Canada	5930	2444	599	677	677	812	721
Central-African	2	2	0	0	0	0	0
Switzerland	21094	10560	1729	1932	2041	2539	2293
Cook Islands	19	6	1	5	6	0	1
Chile	36	12	6	3	4	2	9
Cameroon	1	0	0	0	0	1	0
Columbia	31	12	8	0	3	1	7
Costa Rica	1	1	0	0	0	0	0

Countires and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Czechoslovakia	32	32	0	0	0	0	0
Cuba	83	44	7	4	5	11	12
Cyprus	137	38	16	12	32	27	12
Czech	675	283	81	62	59	110	80
Germany	67718	30186	6658	6451	7098	8702	8623
Denmark	4778	2218	423	466	468	574	629
Dominican Republic	4	2	0	1	0	1	0
Algeria	1	0	0	1	0	0	0
Ecuador	6	1	0	0	1	3	1
Estonia	17	4	2	4	2	3	2
Egypt	30	7	1	1	6	14	1
Spain	2723	1320	232	297	307	288	279
Finland	7782	3770	852	752	679	939	790
Fiji	9	9	0	0	0	0	0
Falkland Islands (Malvinas Islands)	1	1	0	0	0	0	0
France	29011	13969	3004	2690	2528	3345	3475
Gabon	2	2	0	0	0	0	0
Britain	14731	7939	1266	1164	1271	1571	1520
Georgia	4	1	0	3	0	0	0
Gibraltar	14	9	1	0	1	0	3
Greece	113	45	13	18	16	15	6
Honduras	1	0	0	1	0	0	0
Croatia	65	50	3	3	3	4	2
Haiti	1	1	0	0	0	0	0
Hungary	370	261	14	15	23	24	33
Indonesia	161	92	5	23	17	12	12
Ireland	767	279	56	78	100	134	120
Israel	2090	809	188	168	228	345	352
India	990	494	102	77	86	113	118
Iraq	3	0	0	1	0	1	1
Iran	8	1	1	2	3	1	0
Iceland	93	27	6	10	15	16	19

Continued

Countires and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Italy	13226	6285	1291	1303	1342	1542	1463
Jersey Island	5	4	0	0	0	1	0
Jordan	11	4	3	1	0	3	0
Japan	306873	147683	33804	29516	30637	35403	29830
Kenya	1	0	0	0	1	0	0
Kyrgyzstan	3	1	0	1	0	1	0
Saint Kitts and Nevis	1	0	0	0	0	0	1
DPRK	12	4	1	1	3	1	2
Republic of Korea	62239	27569	7950	7117	6631	6941	6031
Kuwait	8	6	1	1	0	0	0
Cayman Islands	1152	217	81	161	223	223	247
Kazakhstan	20	8	0	2	2	7	1
Lebanon	13	6	0	0	2	2	3
Liechtenstein	1013	523	179	86	88	79	58
Sri Lanka	29	28	0	0	1	0	0
Liberia	3	3	0	0	0	0	0
Lesotho	1	1	0	0	0	0	0
Lithuania	5	2	0	0	0	3	0
Luxembourg	852	328	69	74	62	175	144
Latvia	28	8	1	1	7	5	6
Morocco	17	8	0	0	4	1	4
Monaco	80	50	15	2	4	5	4
Madagascar	2	2	0	0	0	0	0
Marshall Islands	2	0	0	0	1	1	0
Mali	4	1	0	0	1	2	0
Mongolia	6	4	1	0	0	0	1
Malta	47	8	1	4	7	11	16
Mauritius	110	47	11	19	8	20	5
Maldives	1	1	0	0	0	0	0
Mexico	236	51	45	14	31	49	46
Malaysia	768	307	102	124	76	96	63
Namibia	1	0	0	1	0	0	0

Countires and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Nigeria	6	4	0	1	0	0	1
Netherlands	22458	10903	2523	2177	2228	2440	2187
Norway	1572	784	163	129	146	177	173
Nepal	3	0	0	0	0	2	1
New Zealand	698	288	92	86	61	79	92
Oman	1	0	0	1	0	0	0
Panama	255	154	17	20	19	26	19
Peru	3	1	0	0	0	0	2
Philippines	50	27	9	8	5	1	0
Pakistan	6	5	1	0	0	0	0
Poland	233	88	22	16	36	43	28
Puerto Ric	4	0	2	0	0	1	1
Portugal	112	41	14	6	17	19	15
Paraguay	1	0	1	0	0	0	0
Qatar	1	0	0	0	0	0	1
Romania	19	8	0	3	1	5	2
Serbia	4	0	0	1	1	0	2
Russian Federation	911	442	84	89	86	113	97
Saudi Arabia	427	277	51	20	19	26	34
Seychelles	35	3	6	8	2	7	9
Sweden	12752	5973	1189	1186	1250	1689	1465
Singapore	2475	853	234	345	306	403	334
Slovenia	133	53	12	18	18	18	14
Slovakia	52	20	13	3	5	8	3
San Marino	10	4	4	0	0	0	2
Senegal	1	0	1	0	0	0	0
El Salvador	1	1	0	0	0	0	0
Syria	3	1	0	2	0	0	0
Swaziland	1	1	0	0	0	0	0
Turks and Caicos Islands	1	0	0	0	0	0	1
Thailand	410	295	21	41	17	16	20
Tunisia	3	2	0	1	0	0	0

Continued

Countires and Regions	Accumulated Total	1985-2008	2009	2010	2011	2012	2013
Turkey	536	140	104	74	62	75	81
Trinidad and Tobago	4	1	0	0	0	3	0
Ukraine	52	28	4	6	2	4	8
Uganda	2	2	0	0	0	0	0
United States	158707	71848	15273	14938	15822	20160	20666
Uruguay	10	7	0	1	0	2	0
Uzbekistan	4	3	0	0	0	1	0
Saint Vincent and the Grenadines	4	1	0	0	0	2	1
Venezuela	38	31	1	1	2	2	1
Virgin Islands	2124	880	130	179	207	366	362
Vietnam	37	6	0	0	4	12	15
Vanuatu	5	4	0	0	1	0	0
Samoa	120	48	18	4	10	18	22
Yemen	4	0	0	3	1	0	0
Yugoslavia	23	22	0	0	1	0	0
South Africa	583	274	59	43	48	84	75
Zimbabwe	4	3	1	0	0	0	0

Table 10 Valid Patents of Domestic Origin (By the end of 2013)

Region	Total	Invention	Utility Model	Design
Total	3635929	586493	1917122	1132314
Beijing	219243	85434	109706	24103
Tianjin	68540	12301	46746	9493
Hebei	54781	7404	37393	9984
Shanxi	25037	5250	16202	3585
Inner Mongolia	11421	2114	6623	2684
Liaoning	74134	16092	49623	8419
Jilin	21926	5676	12876	3374
Heilongjiang	55316	8495	30798	16023
Shanghai	194496	48370	109588	36538
Jiangsu	616779	62112	255399	299268
Zhejiang	552681	43275	271502	237904
Anhui	119704	11566	81319	26819
Fujian	107246	10429	62506	34311
Jiangxi	26037	3354	15159	7524
Shandong	206983	27996	148414	30573
Henan	84420	11249	58187	14984
Hubei	82392	15235	54192	12965
Hunan	75530	14195	44376	16959
Guangdong	586592	95475	258149	232968
Guangxi	22038	3692	13157	5189
Chongqing	66208	8609	39419	18180
Sichuan	119531	16677	61260	41594
Guizhou	21835	3262	11812	6761
Yunnan	21837	5160	12233	4444
Tibet	527	184	116	227
Shaanxi	55310	14394	34665	6251
Gansu	12459	2714	7998	1747

Continued

Region	Total	Invention	Utility Model	Design
Qinghai	1588	364	754	470
Ningxia	3277	603	2188	486
Xinjiang	13594	1756	9191	2647
Hainan	3948	1498	1645	805
Hong Kong	11825	2338	3545	5942
Macao	176	43	82	51
Taiwan	98518	39177	50299	9042
(Guangzhou)	85073	15554	38278	31241
(Changchun)	14287	4182	8189	1916
(Wuhan)	48748	12233	31189	5326
(Nanjing)	58377	17218	29149	12010
(Hangzhou)	119374	20499	61856	37019
(Xi'an)	43669	12431	27517	3721
(Jinan)	36900	7033	26275	3592
(Shenyang)	24472	6330	14349	3793
(Chengdu)	82816	11681	40498	30637
(Dalian)	23373	5600	15908	1865
(Xiamen)	27882	3364	17027	7491
(Harbin)	28542	6785	14847	6910
(Shenzhen)	201333	62293	85996	53044
(Qingdao)	40491	6254	26538	7699
(Ningbo)	156110	7961	67620	80529
(Xinjiang Production and Construction Corps)	1370	213	1066	91

Table 11 Valid Patents of Foreign Origin (By the end of 2013)

Countries and Regions	Total	Invention	Utility Model	Design
Total	559210	447415	19667	92128
Andorra	6	6	0	0
UAE	53	24	4	25
Afghanistan	9	0	0	9
Antigua and Barbuda	7	4	0	3
Anguilla	3	1	2	0
Armenia	2	1	0	1
Netherlands Antilles	96	93	0	3
Argentina	25	21	2	2
Austria	2456	1955	113	388
Australia	3652	2209	165	1278
Azerbaijan	1	1	0	0
Bosnia and Herzegovina	1	1	0	0
Barbados	286	259	3	24
Belgium	2597	2254	40	303
Bulgaria	15	12	1	2
Bahrain Island	3	3	0	0
Benin	1	0	0	1
Bermuda	424	295	63	66
Brunei Darussalam	61	21	21	19
Brazil	546	311	38	197
Bahamas	96	69	5	22
Belize	30	5	15	10
Canada	4667	3668	188	811
Switzerland	15022	11426	534	3062
Cook Islands	25	5	0	20
Chile	27	23	3	1
Cameroon	1	1	0	0
Columbia	19	12	2	5
Cuba	66	66	0	0
Cyprus	71	48	2	21
Czech	467	98	38	331

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Germany	51117	39804	1771	9542
Denmark	3372	2437	74	861
Dominican Republic	3	3	0	0
Ecuador	6	3	0	3
Estonia	10	6	0	4
Egypt	25	3	2	20
Spain	1593	794	82	717
Finland	5459	4450	194	815
France	20492	16026	647	3819
Britain	8769	6412	333	2024
Georgia	3	0	0	3
Gibraltar	15	14	0	1
Greece	79	54	1	24
Croatia	11	8	2	1
Hungary	175	142	13	20
Indonesia	68	14	7	47
Ireland	568	495	15	58
Israel	1518	1112	133	273
India	632	518	14	100
Iraq	4	0	2	2
Iran	5	1	3	1
Iceland	78	78	0	0
Italy	8789	5338	248	3203
Jersey Island	3	3	0	0
Jordan	2	0	1	1
Japan	230917	190007	6943	33967
Kyrgyzstan	2	2	0	0
Saint Kitts and Nevis	2	2	0	0
DPRK	5	4	1	0
Republic of Korea	44865	36372	991	7502
Kuwait	3	2	0	1
Cayman Islands	1597	955	260	382

Countries and Regions	Total	Invention	Utility Model	Design
Kazakhstan	14	10	4	0
Lebanon	11	0	7	4
Saint Lucia	2	2	0	0
Liechtenstein	544	349	1	194
Sri Lanka	2	1	1	0
Lithuania	3	1	0	2
Luxembourg	1050	835	54	161
Latvia	24	15	2	7
Morocco	10	7	0	3
Monaco	49	34	0	15
Madagascar	2	2	0	0
Marshall Islands	1	1	0	0
Mali	2	0	2	0
Mongolia	1	1	0	0
Malta	46	46	0	0
Mauritius	67	45	11	11
Mexico	235	163	6	66
Malaysia	532	184	64	284
Nigeria	3	0	0	3
Netherlands	14344	12230	199	1915
Norway	1033	863	8	162
Nepal	3	0	2	1
New Zealand	458	310	15	133
Panama	189	163	3	23
Peru	2	0	2	0
Philippines	56	44	1	11
Pakistan	1	0	0	1
Poland	154	62	7	85
Puerto Rico	4	0	1	3
Portugal	90	65	1	24
Qatar	1	0	0	1
Romania	11	5	1	5

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Serbia	3	3	0	0
Russian Federation	502	310	91	101
Saudi Arabia	298	110	4	184
Seychelles	42	29	5	8
Sweden	9631	8043	228	1360
Singapore	1984	1294	191	499
Slovenia	86	68	1	17
Slovakia	41	14	2	25
San Marino	6	3	0	3
Senegal	1	0	0	1
El Salvador	1	1	0	0
Syria	2	0	0	2
Turks and Caicos Islands	1	0	0	1
Thailand	148	39	21	88
Tunisia	1	1	0	0
Turkey	410	152	37	221
Trinidad and Tobago	3	3	0	0
Ukraine	24	14	8	2
United States	113762	92684	5314	15764
Uruguay	4	4	0	0
Uzbekistan	2	1	1	0
Saint Vincent and the Grenadines	4	4	0	0
Venezuela	18	17	0	1
Virgin Islands	1653	705	317	631
Vietnam	32	3	3	26
Samoa	255	167	60	28
Yemen	4	0	0	4
Yugoslavia	2	2	0	0
South Africa	423	354	16	53
Zimbabwe	1	1	0	0