

Appendix

1. Statistics

Table 1 Applications for Three Kinds of Patents Received from Home and Abroad, 2003–2014

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	13855253	4792519	4737019	4325715	12536358	3665372	4699564	4171422	1318895	1127147	37455	154293
Average Growth Rate (%)	20.5%	22.6%	20.4%	17.8%	21.9%	28.4%	20.5%	18.2%	10.2%	10.0%	18.5%	9.1%
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%
2014	2361243	928177	868511	564555	2210616	801135	861053	548428	150627	127042	7458	16127
	-0.7%	12.5%	-2.7%	-14.4%	-1.1%	13.6%	-2.7%	-14.9%	5.7%	5.7%	4.5%	6.3%



Table 2 Domestic Applications for Three Kinds of Patents According to Service and Non-Service, 2003–2014

	Non-Service	Service				
		Sub-total	Colleges and Universities	Scientific Research Institutions	Factories and Enterprises	Organizations
Accumulated Total	4794510	7742084	879265	306217	6435004	121598
Average Growth Rate (%)	14.6%	28.0%	33.0%	21.5%	27.8%	32.4%
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%
2014	637562	1573054	183969	55861	1306466	26758
	-6.2%	1.2%	9.7%	5.3%	-0.3%	10.0%

Table 3 Three Kinds of Patents Granted for Home and Abroad, 2003–2014

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	7846388	1452992	3581531	2811865	7077741	861529	3548703	2667509	768647	591463	32828	144356
Average Growth Rate (%)	21.0%	22.0%	23.3%	17.3%	21.9%	31.9%	23.2%	17.7%	13.6%	13.4%	28.5%	10.9%
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%
2012	1255138	217105	571175	466858	1163226	143847	566750	452629	91912	73258	4425	14229
	30.7%	26.1%	40.0%	22.8%	31.6%	28.0%	39.9%	23.5%	19.9%	22.6%	46.3%	2.6%
2013	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%
2014	1302687	233228	707883	361576	1209402	162680	699971	346751	93285	70548	7912	14825
	-0.8%	12.3%	2.2%	-12.3%	-1.5%	13.3%	2.0%	-13.0%	10.3%	10.0%	19.2%	7.5%

Table 4 Applications for Patents Received from Home, 1985–2014

Region	Accumulated Total	1985–2009	2010	2011	2012	2013	2014
Total	13857364	4885939	1109428	1504670	1912151	2234560	2210616
Beijing	807560	318557	57296	77955	92305	123336	138111
Tianjin	353044	123236	25973	38489	41009	60915	63422
Hebei	208403	97653	12295	17595	23241	27619	30000
Shanxi	111645	39617	7927	12769	16786	18859	15687
Inner Mongolia	48225	23993	2912	3841	4732	6388	6359
Liaoning	402985	206659	34216	37102	41152	45996	37860
Jilin	107276	60780	6445	8196	9171	10751	11933
Heilongjiang	214323	85892	10269	23432	30610	32264	31856
Shanghai	752550	350343	71196	80215	82682	86450	81664
Jiangsu	2582737	599420	235873	348381	472656	504500	421907
Zhejiang	1601582	498952	120742	177066	249373	294014	261435
Anhui	427740	64655	47128	48556	74888	93353	99160
Fujian	321903	113035	21994	32325	42773	53701	58075
Jiangxi	112238	41268	6307	9673	12458	16938	25594
Shandong	999553	366695	80856	109599	128614	155170	158619
Henan	345695	124674	25149	34076	43442	55920	62434
Hubei	377860	142857	31311	42510	51316	50816	59050
Hunan	296032	122896	22381	29516	35709	41336	44194
Guangdong	1878004	756688	152907	196272	229514	264265	278358
Guangxi	122821	40439	5117	8106	13610	23251	32298
Chongqing	264441	66319	22825	32039	38924	49036	55298
Sichuan	491977	162081	40230	49734	66312	82453	91167
Guizhou	91005	27072	4414	8351	11296	17405	22467
Yunnan	84512	37602	5645	7150	9260	11512	13343
Tibet	2131	1085	162	263	170	203	248
Shaanxi	292303	79997	22949	32227	43608	57287	56235
Gansu	60259	20157	3558	5287	8261	10976	12020

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Region	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Qinghai	8938	4127	602	732	844	1099	1534
Ningxia	19137	8572	739	1079	1985	3230	3532
Xinjiang	58857	25083	3560	4736	7044	8224	10210
Hainan	17353	8246	1019	1489	1824	2359	2416
Hong Kong	44411	28528	2980	3171	3168	3322	3242
Macao	669	305	32	36	65	147	84
Taiwan	349195	238456	22419	22702	23349	21465	20804
(Guangzhou)	284960	116439	20801	28087	33439	39814	46380
(Changchun)	55421	24672	4238	5391	6161	7113	7846
(Wuhan)	187838	73327	15045	21879	24105	25680	27802
(Nanjing)	263096	58644	19275	31130	42782	55135	56130
(Hangzhou)	323804	92426	29801	40786	53889	58207	48695
(Xi'an)	230250	55105	19485	27717	36983	47111	43849
(Jinan)	164546	61146	15543	18581	23129	22583	23564
(Shenyang)	133089	69999	10051	11906	12899	13190	15044
(Chengdu)	334964	92991	31261	37466	48901	59370	64975
(Dalian)	143619	59136	17442	16279	18171	21376	11215
(Xiamen)	72805	24984	5525	8315	9962	11165	12854
(Harbin)	122622	42985	6526	13013	17041	20224	22833
(Shenzhen)	561755	212621	49430	63522	73169	80692	82321
(Qingdao)	218826	57740	10735	19577	27004	48610	55160
(Ningbo)	367857	78375	26399	47571	73647	83334	58531
(Xinjiang Production and Construction Corps)	4147	634	430	571	709	870	933

Table 5 Applications for Three Kinds of Patents Received from Home in 2014

Region	Total	Invention	Utility Model	Design
Total	2210616	801135	861053	548428
Beijing	138111	78129	48228	11754
Tianjin	63422	23391	35068	4963
Hebei	30000	8332	16693	4975
Shanxi	15687	6107	7055	2525
Inner Mongolia	6359	1924	3562	873
Liaoning	37860	18417	16404	3039
Jilin	11933	5288	5658	987
Heilongjiang	31856	13468	14557	3831
Shanghai	81664	39133	33264	9267
Jiangsu	421907	146660	124980	150267
Zhejiang	261435	52406	116011	93018
Anhui	99160	49960	41889	7311
Fujian	58075	12529	25410	20136
Jiangxi	25594	4688	11596	9310
Shandong	158619	77298	69323	11998
Henan	62434	19646	30716	12072
Hubei	59050	22536	27829	8685
Hunan	44194	14474	19248	10472
Guangdong	278358	75147	96144	107067
Guangxi	32298	22237	7911	2150
Chongqing	55298	19418	25114	10766
Sichuan	91167	29926	32085	29156
Guizhou	22467	8203	7331	6933

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Region	Total	Invention	Utility Model	Design
Yunnan	13343	4732	6508	2103
Tibet	248	92	65	91
Shaanxi	56235	24399	16067	15769
Gansu	12020	4986	5144	1890
Qinghai	1534	660	590	284
Ningxia	3532	2183	1195	154
Xinjiang	10210	2360	4935	2915
Hainan	2416	969	957	490
Hong Kong	3242	909	846	1487
Macao	84	37	27	20
Taiwan	20804	10491	8643	1670
(Guangzhou)	46380	14595	15829	15956
(Changchun)	7846	3906	3505	435
(Wuhan)	27802	11871	13783	2148
(Nanjing)	56130	28050	16870	11210
(Hangzhou)	48695	14800	21751	12144
(Xi'an)	43849	21383	11751	10715
(Jinan)	23564	12539	9815	1210
(Shenyang)	15044	8963	5153	928
(Chengdu)	64975	22096	20059	22820
(Dalian)	11215	5229	5180	806
(Xiamen)	12854	3807	5839	3208
(Harbin)	22833	11629	8774	2430
(Shenzhen)	82321	31097	30475	20749
(Qingdao)	55160	39979	12780	2401
(Ningbo)	58531	12958	24066	21507
(Xinjiang Production and Construction Corps)	933	375	519	39

Countries and Regions	Accumulated Total	1985–2009	2010	2011	2012	2013	2014
Total	1597416	924256	112858	128677	138498	142501	150626
Andorra	17	10	1	1	1	2	2
UAE	233	135	7	20	11	33	27
Afghanistan	11	2	6	2	1	0	0
Antigua and Barbuda	11	7	1	3	0	0	0
Anguilla	3	2	0	0	1	0	0
Armenia	7	3	1	1	0	0	2
Netherlands Antilles	321	278	16	6	8	7	6
Angola	1	0	0	0	0	0	1
Argentina	138	87	12	10	11	7	11
Austria	7675	3656	550	697	759	951	1062
Australia	12099	7658	822	867	957	876	919
Aruba	1	1	0	0	0	0	0
Azerbaijan	5	1	1	1	2	0	0
Bosnia and Herzegovina	1	0	0	0	0	1	0
Barbados	950	331	84	106	99	152	178
Bengal	7	2	1	0	0	1	3
Belgium	7494	4091	611	669	693	698	732
Bulgaria	108	75	5	4	4	5	15
Bahrain Island	3	3	0	0	0	0	0
Burundi	1	1	0	0	0	0	0
Benin	1	0	0	1	0	0	0
Bermuda	1105	483	83	121	129	155	134
Brunei Darussalam	97	49	20	6	8	5	9
Bolivia	1	1	0	0	0	0	0
Brazil	1782	855	166	203	159	165	234
Bahamas	252	178	18	17	13	7	19
Belarus	28	28	0	0	0	0	0
Belize	75	37	1	2	4	14	17
Canada	13995	7895	1137	1191	1352	1237	1183
Central-African	2	2	0	0	0	0	0
Switzerland	43116	25009	3067	3293	3545	3926	4276
Cook Islands	18	8	2	6	0	2	0

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Countries and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Chile	156	64	12	17	21	17	25
Cameroon	2	2	0	0	0	0	0
Columbia	69	34	6	7	10	6	6
Costa Rica	7	3	0	0	0	4	0
Czechoslovakia	72	72	0	0	0	0	0
Serbia and Montenegro	2	2	0	0	0	0	0
Cuba	159	124	7	6	8	8	6
Cyprus	310	150	29	34	36	28	33
Czech	945	485	68	72	154	74	92
Germany	152477	81581	11297	13096	14552	15925	16026
Denmark	10408	5644	857	937	884	1061	1025
Commonwealth of Dominica	3	3	0	0	0	0	0
Dominican Republic	5	2	0	0	0	3	0
Algeria	6	3	1	0	2	0	0
Ecuador	16	7	0	3	2	1	3
Estonia	63	19	7	5	11	4	17
Egypt	50	26	1	7	15	1	0
Western Sahara	1	1	0	0	0	0	0
Spain	5853	3270	480	525	548	533	497
Ethiopia	2	0	0	0	0	0	2
Finland	15689	9588	1215	1076	1255	1222	1333
Fiji	10	10	0	0	0	0	0
Falkland Islands (Malvinas Islands)	1	1	0	0	0	0	0
France	58736	34453	3994	4575	5128	5126	5460
Britain	32224	20460	2087	2275	2273	2455	2674
Grenada	1	1	0	0	0	0	0
Georgia	9	8	0	0	1	0	0
Gibraltar	25	14	0	3	5	1	2
Greece	276	171	15	23	26	13	28
Guatemala	1	1	0	0	0	0	0
Honduras	1	1	0	0	0	0	0
Croatia	138	118	3	3	5	5	4
Haiti	1	1	0	0	0	0	0
Hungary	923	731	36	55	36	33	32
Indonesia	231	149	19	26	16	13	8

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Countries and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Ireland	2012	1009	157	176	213	213	244
Israel	6317	3053	511	634	686	669	764
India	2768	1478	189	228	264	302	307
Iraq	7	1	1	1	2	2	0
Iran	20	10	6	3	0	1	0
Iceland	198	122	25	17	8	11	15
Italy	24009	14577	1627	1815	2020	1992	1978
Jersey Island	8	7	0	0	0	0	1
Jamaica	4	0	0	0	3	0	1
Jordan	24	15	1	1	2	5	0
Japan	563753	334522	38241	45228	49678	48537	47547
Kenya	5	0	0	2	2	1	0
Kyrgyzstan	5	3	1	0	1	0	0
Saint Kitts and Nevis	6	3	0	0	1	2	0
DPRK	25	18	1	0	3	2	1
Republic of Korea	131350	75005	8782	9860	10793	12916	13994
Kuwait	16	10	1	2	1	2	0
Cayman Islands	5327	1015	353	691	805	699	1764
Kazakhstan	34	18	4	4	2	5	1
Lebanon	23	8	1	5	4	4	1
Liechtenstein	1742	1152	83	155	135	105	112
Sri Lanka	52	47	0	0	2	3	0
Liberia	3	3	0	0	0	0	0
Lesotho	1	1	0	0	0	0	0
Lithuania	22	3	2	1	3	3	10
Luxembourg	1868	779	136	215	187	227	324
Latvia	62	27	9	11	5	5	5
Morocco	21	13	2	2	2	2	0
Monaco	144	105	7	7	7	8	10
Moldova	6	1	1	0	1	0	3
Madagascar	2	2	0	0	0	0	0
Marshall Islands	12	2	2	2	1	2	3
Macedonia	2	0	0	0	0	1	1
Mali	35	7	3	10	7	6	2

Continued

Countries and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Burma	4	0	0	0	0	0	4
Mongolia	5	1	0	3	0	1	0
Malta	120	45	16	13	7	14	25
Mauritius	148	102	9	10	4	20	3
Maldives	2	2	0	0	0	0	0
Malawi	2	2	0	0	0	0	0
Mexico	566	232	54	53	51	49	127
Malaysia	1448	765	129	141	135	113	165
Namibia	2	2	0	0	0	0	0
Niger	1	1	0	0	0	0	0
Nigeria	17	6	2	0	0	5	4
Netherlands	48491	32442	3329	3473	3035	2888	3324
Norway	3339	2002	261	275	262	268	271
Nepal	3	0	0	0	3	0	0
New Zealand	1642	924	127	111	132	157	191
Oman	3	3	0	0	0	0	0
Panama	311	275	6	10	8	5	7
Peru	13	3	2	3	3	2	0
Philippines	104	68	5	5	5	5	16
Pakistan	22	10	0	2	1	4	5
Poland	577	217	50	58	72	81	99
Puerto Rico	19	6	0	0	5	5	3
Portugal	294	153	32	28	22	32	27
Paraguay	2	1	0	0	0	0	1
Qatar	9	0	0	0	2	1	6
Romania	39	20	2	6	4	4	3
Serbia	11	0	4	1	0	5	1
Russian Federation	2380	1436	147	170	183	233	211
Saudi Arabia	816	435	38	36	39	58	210
Seychelles	151	31	6	9	43	16	46
Sudan	1	1	0	0	0	0	0
Sweden	25612	15209	1996	1963	1988	2119	2337
Singapore	5631	2522	437	645	651	680	696

Continued

Countries and Regions	Accumulated Total	1985–2009	2010	2011	2012	2013	2014
Slovenia	303	165	37	38	19	23	21
Slovakia	97	50	6	11	9	9	12
San Marino	19	15	1	2	1	0	0
Senegal	2	2	0	0	0	0	0
El Salvador	2	1	0	1	0	0	0
Syria	4	3	0	0	0	0	1
Swaziland	1	1	0	0	0	0	0
Turks and Caicos Islands	1	0	0	0	1	0	0
Chad	1	0	0	1	0	0	0
Thailand	633	480	31	25	32	34	31
Tunisia	16	8	0	1	1	5	1
Turkey	1003	425	77	104	101	140	156
Trinidad and Tobago	5	3	2	0	0	0	0
Tanzania	2	0	0	0	0	2	0
Ukraine	143	71	6	10	11	22	23
Uganda	2	2	0	0	0	0	0
United States	389574	221941	28636	32023	33556	34421	38997
Uruguay	22	14	3	5	0	0	0
Uzbekistan	10	5	0	1	0	1	3
Vatican	2	2	0	0	0	0	0
Saint Vincent and the Grenadines	7	2	1	1	1	1	1
Venezuela	59	43	4	1	6	0	5
Virgin Islands	3713	1947	381	286	386	443	270
Vietnam	58	13	4	7	18	11	5
Vanuatu	12	12	0	0	0	0	0
Samoa	246	112	26	20	24	31	33
Yemen	5	3	0	1	0	1	0
Yugoslavia	39	39	0	0	0	0	0
South Africa	1327	868	99	82	94	90	94
Zambia	2	2	0	0	0	0	0
Zimbabwe	8	8	0	0	0	0	0

Table 7 Patents Granted for Domatic Applications, 1985–2014

Region	Accumulated Total	1985–2009	2010	2011	2012	2013	2014
Total	7869374	2643852	740620	883861	1163226	1228413	1209402
Beijing	417276	155034	33511	40888	50511	62671	74661
Tianjin	144993	49016	11006	13982	19782	24856	26351
Hebei	133951	59138	10061	11119	15315	18186	20132
Shanxi	55669	21811	4752	4974	7196	8565	8371
Inner Mongolia	29067	13758	2096	2262	3084	3836	4031
Liaoning	202110	103437	17093	19176	21223	21656	19525
Jilin	60071	31963	4343	4920	5930	6219	6696
Heilongjiang	121588	47073	6780	12236	20268	19819	15412
Shanghai	423688	176837	48215	47960	51508	48680	50488
Jiangsu	1316819	269002	138382	199814	269944	239645	200032
Zhejiang	1134881	310691	114643	130190	188463	202350	188544
Anhui	224214	34971	16012	32681	43321	48849	48380
Fujian	216609	70824	18063	21857	30497	37511	37857
Jiangxi	63650	21965	4349	5550	7985	9970	13831
Shandong	519186	183562	51490	58844	75496	76976	72818
Henan	190627	65190	16539	19259	26791	29482	33366
Hubei	178201	60279	17362	19035	24475	28760	28290
Hunan	166366	62188	13873	16064	23212	24392	26637
Guangdong	1206805	455068	119343	128413	153598	170430	179953
Guangxi	54185	22688	3647	4402	5900	7884	9664
Chongqing	137522	40413	12080	15525	20364	24828	24312
Sichuan	288313	92146	32212	28446	42218	46171	47120
Guizhou	45053	14500	3086	3386	6059	7915	10107
Yunnan	51656	22853	3823	4199	5853	6804	8124
Tibet	1377	711	124	142	133	121	146
Shaanxi	118552	38292	10034	11662	14908	20836	22820
Gansu	28184	10437	1868	2383	3662	4737	5097

Continued

Region	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Qinghai	4671	2221	264	538	527	502	619
Ningxia	9999	4826	1081	613	844	1211	1424
Xinjiang	33341	14462	2562	2642	3439	4998	5238
Hainan	9826	4326	714	765	1093	1331	1597
Hong Kong	35391	22419	2601	2588	2619	2297	2867
Macao	398	171	34	19	26	93	55
Taiwan	245135	161580	18577	17327	16982	15832	14837
(Guangzhou)	180773	70920	15079	18339	22045	26192	28198
(Changchun)	29640	11568	2622	3146	3884	4014	4406
(Wuhan)	100668	32990	10165	11588	13689	15901	16335
(Nanjing)	108821	26193	9150	12419	18584	19565	22910
(Hangzhou)	220471	49240	26506	29075	40554	41511	33585
(Xi'an)	86863	23945	8037	9274	11862	16250	17495
(Jinan)	85151	25782	9595	11345	14264	12405	11760
(Shenyang)	67308	36350	5165	5456	6752	6924	6661
(Chengdu)	196023	50878	25981	21228	32533	33468	31935
(Dalian)	57463	22456	6199	8115	7491	7316	5886
(Xiamen)	51609	16414	5040	5485	7479	8248	8943
(Harbin)	60981	21360	3974	6260	9788	10315	9284
(Shenzhen)	330703	104112	34951	39363	48791	49785	53701
(Qingdao)	86598	29951	6796	9085	12721	13861	14184
(Ningbo)	274347	50200	25971	37309	59175	58406	43286
(Xinjiang Production and Construction Corps)	2353	364	240	307	437	479	526

Table 8 Three Kinds of Patents Granted for Domentic Applications in 2014

Region	Total	Invention	Utility Model	Design
Total	1209402	162680	699971	346751
Beijing	74661	23237	44071	7353
Tianjin	26351	3279	20122	2950
Hebei	20132	2286	14253	3593
Shanxi	8371	1559	5569	1243
Inner Mongolia	4031	458	2908	665
Liaoning	19525	3975	13432	2118
Jilin	6696	1434	4533	729
Heilongjiang	15412	2454	11036	1922
Shanghai	50488	11614	30704	8170
Jiangsu	200032	19671	100810	79551
Zhejiang	188544	13372	99508	75664
Anhui	48380	5184	36748	6448
Fujian	37857	3426	21013	13418
Jiangxi	13831	1033	7637	5161
Shandong	72818	10538	53555	8725
Henan	33366	3493	23539	6334
Hubei	28290	4855	19801	3634
Hunan	26637	4160	15967	6510
Guangdong	179953	22276	83202	74475
Guangxi	9664	1933	6138	1593
Chongqing	24312	2321	15885	6106
Sichuan	47120	5682	24060	17378
Guizhou	10107	1047	5207	3853
Yunnan	8124	1423	5438	1263
Tibet	146	50	47	49
Shaanxi	22820	4885	15405	2530
Gansu	5097	812	3538	747

Continued

Region	Total	Invention	Utility Model	Design
Qinghai	619	110	357	152
Ningxia	1424	243	1048	133
Xinjiang	5238	605	3850	783
Hainan	1597	380	848	369
Hong Kong	2867	466	815	1586
Macao	55	14	32	9
Taiwan	14837	4405	8895	1537
(Guangzhou)	28198	4597	13557	10044
(Changchun)	4406	1136	2918	352
(Wuhan)	16335	3874	10871	1590
(Nanjing)	22910	5275	11894	5741
(Hangzhou)	33585	5559	18152	9874
(Xi' an)	17495	4379	12101	1015
(Jinan)	11760	2610	8284	866
(Shenyang)	6661	1656	4196	809
(Chengdu)	31935	4021	14612	13302
(Dalian)	5886	1363	3988	535
(Xiamen)	8943	1011	5615	2317
(Harbin)	9284	2085	6205	994
(Shenzhen)	53701	12032	25425	16244
(Qingdao)	14184	2864	9589	1731
(Ningbo)	43286	2832	21627	18827
(Xinjiang Production and Construction Corps)	526	86	405	35

Table 9 Patents Granted for Foreign Applications, 1985–2014

Countires and Regions	Accumulated Total	1985–2009	2010	2011	2012	2013	2014
Total	859322	438682	74205	76652	91912	84587	93284
Andorra	7	3	1	0	0	1	2
UAE	174	115	4	4	10	12	29
Afghanistan	10	0	7	2	0	1	0
Antigua and Barbuda	7	2	3	0	0	1	1
Anguilla	2	0	0	0	1	1	0
Armenia	3	1	1	0	0	0	1
Netherlands Antilles	208	162	11	11	10	10	4
Angola	1	0	0	0	0	0	1
Argentina	49	23	6	4	5	7	4
Austria	3852	1871	274	342	381	412	572
Australia	6458	3602	604	481	670	584	517
Azerbaijan	1	0	0	1	0	0	0
Barbados	353	54	44	39	67	64	85
Bengal	4	2	0	0	0	0	2
Belgium	3845	1682	292	395	537	494	445
Bulgaria	50	32	4	2	4	2	6
Bahrain Island	1	1	0	0	0	0	0
Benin	1	0	0	0	1	0	0
Bermuda	525	108	57	83	112	91	74
Brunei Darussalam	74	28	19	10	8	3	6
Brazil	916	384	94	77	114	99	148
Bahamas	154	88	19	10	9	11	17
Belarus	14	14	0	0	0	0	0
Belize	50	16	6	4	2	14	8
Canada	6690	3043	677	677	812	721	760
Central-African	2	2	0	0	0	0	0
Switzerland	23914	12289	1932	2041	2539	2293	2820
Cook Islands	20	7	5	6	0	1	1
Chile	50	18	3	4	2	9	14
Cameroon	1	0	0	0	1	0	0
Columbia	35	20	0	3	1	7	4
Costa Rica	2	1	0	0	0	0	1

Continued

Countires and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Czechoslovakia	32	32	0	0	0	0	0
Cuba	92	51	4	5	11	12	9
Cyprus	158	54	12	32	27	12	21
Czech	745	364	62	59	110	80	70
Germany	77158	36844	6451	7098	8702	8623	9440
Denmark	5476	2641	466	468	574	629	698
Dominican Republic	6	2	1	0	1	0	2
Algeria	3	0	1	0	0	0	2
Ecuador	7	1	0	1	3	1	1
Estonia	25	6	4	2	3	2	8
Egypt	32	8	1	6	14	1	2
Spain	3093	1552	297	307	288	279	370
Ethiopia	1	0	0	0	0	0	1
Finland	8591	4622	752	679	939	790	809
Fiji	9	9	0	0	0	0	0
Falkland Islands (Malvinas Islands)	1	1	0	0	0	0	0
France	32567	16973	2690	2528	3345	3475	3556
Gabon	2	2	0	0	0	0	0
Britain	16315	9205	1164	1271	1571	1520	1584
Georgia	5	1	3	0	0	0	1
Gibraltar	17	10	0	1	0	3	3
Greece	129	58	18	16	15	6	16
Honduras	1	0	1	0	0	0	0
Croatia	65	53	3	3	4	2	0
Haiti	1	1	0	0	0	0	0
Hungary	393	275	15	23	24	33	23
Indonesia	167	97	23	17	12	12	6
Ireland	924	335	78	100	134	120	157
Israel	2451	997	168	228	345	352	361
India	1147	596	77	86	113	118	157
Iraq	4	0	1	0	1	1	1
Iran	10	2	2	3	1	0	2
Iceland	113	33	10	15	16	19	20

Continued

Countires and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Italy	14764	7576	1303	1342	1542	1463	1538
Jersey Island	5	4	0	0	1	0	0
Jordan	11	7	1	0	3	0	0
Japan	340828	181487	29516	30637	35403	29830	33955
Kenya	2	0	0	1	0	0	1
Kyrgyzstan	3	1	1	0	1	0	0
Saint Kitts and Nevis	2	0	0	0	0	1	1
DPRK	12	5	1	3	1	2	0
Republic of Korea	69051	35519	7117	6631	6941	6031	6812
Kuwait	8	7	1	0	0	0	0
Cayman Islands	1420	298	161	223	223	247	268
Kazakhstan	21	8	2	2	7	1	1
Lebanon	13	6	0	2	2	3	0
Liechtenstein	1069	702	86	88	79	58	56
Sri Lanka	30	28	0	1	0	0	1
Liberia	3	3	0	0	0	0	0
Lesotho	1	1	0	0	0	0	0
Lithuania	11	2	0	0	3	0	6
Luxembourg	1030	397	74	62	175	144	178
Latvia	32	9	1	7	5	6	4
Morocco	17	8	0	4	1	4	0
Monaco	85	65	2	4	5	4	5
Moldova	1	0	0	0	0	0	1
Madagascar	2	2	0	0	0	0	0
Marshall Islands	2	0	0	1	1	0	0
Mali	5	1	0	1	2	0	1
Mongolia	7	5	0	0	0	1	1
Malta	61	9	4	7	11	16	14
Mauritius	116	58	19	8	20	5	6
Maldives	1	1	0	0	0	0	0
Mexico	289	96	14	31	49	46	53
Malaysia	863	409	124	76	96	63	95
Namibia	1	0	1	0	0	0	0

Continued

Countries and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Nigeria	10	4	1	0	0	1	4
Netherlands	24762	13426	2177	2228	2440	2187	2304
Norway	1757	947	129	146	177	173	185
Nepal	3	0	0	0	2	1	0
New Zealand	786	380	86	61	79	92	88
Oman	1	0	1	0	0	0	0
Panama	261	171	20	19	26	19	6
Peru	4	1	0	0	0	2	1
Philippines	59	36	8	5	1	0	9
Pakistan	9	6	0	0	0	0	3
Poland	279	110	16	36	43	28	46
Puerto Rico	4	2	0	0	1	1	0
Portugal	124	55	6	17	19	15	12
Paraguay	1	1	0	0	0	0	0
Qatar	3	0	0	0	0	1	2
Romania	19	8	3	1	5	2	0
Serbia	4	0	1	1	0	2	0
Russian Federation	1055	526	89	86	113	97	144
Saudi Arabia	454	328	20	19	26	34	27
Seychelles	56	9	8	2	7	9	21
Sweden	14246	7162	1186	1250	1689	1465	1494
Singapore	2845	1087	345	306	403	334	370
Slovenia	158	65	18	18	18	14	25
Slovakia	56	33	3	5	8	3	4
San Marino	10	8	0	0	0	2	0
Senegal	1	1	0	0	0	0	0
El Salvador	2	1	0	0	0	0	1
Syria	4	1	2	0	0	0	1
Swaziland	1	1	0	0	0	0	0
Turks and Caicos Islands	1	0	0	0	0	1	0
Thailand	436	316	41	17	16	20	26
Tunisia	3	2	1	0	0	0	0

Continued

Countries and Regions	Accumulated Total	1985-2009	2010	2011	2012	2013	2014
Turkey	621	244	74	62	75	81	85
Trinidad and Tobago	4	1	0	0	3	0	0
Tanzania	2	0	0	0	0	0	2
Ukraine	68	32	6	2	4	8	16
Uganda	2	2	0	0	0	0	0
United States	180747	87121	14938	15822	20160	20666	22040
Uruguay	13	7	1	0	2	0	3
Uzbekistan	4	3	0	0	1	0	0
Saint Vincent and the Grenadines	7	1	0	0	2	1	3
Venezuela	43	32	1	2	2	1	5
Virgin Islands	2541	1010	179	207	366	362	417
Vietnam	39	6	0	4	12	15	2
Vanuatu	5	4	0	1	0	0	0
Samoa	151	66	4	10	18	22	31
Yemen	4	0	3	1	0	0	0
Yugoslavia	24	22	0	1	0	0	1
South Africa	650	333	43	48	84	75	67
Zimbabwe	4	4	0	0	0	0	0

Table 10 Valid Patents of Domestic Origin (By the end of 2014)

Region	Total	Invention	Utility Model	Design
Total	4032362	708690	2265224	1058448
Beijing	274667	103638	143723	27306
Tianjin	83628	14736	58611	10281
Hebei	66529	9066	45768	11695
Shanxi	29077	6284	19088	3705
Inner Mongolia	13734	2411	8375	2948
Liaoning	80089	18417	53582	8090
Jilin	24668	6305	15076	3287
Heilongjiang	56451	9816	34196	12439
Shanghai	218156	56515	126222	35419
Jiangsu	594186	81114	311279	201793
Zhejiang	597051	52418	312625	232008
Anhui	135785	15939	98658	21188
Fujian	126232	13057	73303	39872
Jiangxi	34458	4091	19708	10659
Shandong	226424	34775	160315	31334
Henan	99590	13535	68924	17131
Hubei	96682	18825	65102	12755
Hunan	88779	16958	54033	17788
Guangdong	670131	111878	307088	251165
Guangxi	28303	5643	17137	5523
Chongqing	73780	10010	45165	18605
Sichuan	135209	21209	73088	40912
Guizhou	27965	4193	15170	8602
Yunnan	26736	6102	15805	4829
Tibet	588	261	128	199
Shaanxi	66573	17575	42018	6980
Gansu	15077	3252	9888	1937

Continued

Region	Total	Invention	Utility Model	Design
Qinghai	1946	456	981	509
Ningxia	4221	790	2900	531
Xinjiang	16466	2353	11284	2829
Hainan	5059	1792	2218	1049
Hong Kong	13578	3437	3703	6438
Macao	236	56	121	59
Taiwan	100308	41783	49942	8583
(Guangzhou)	99984	18993	46897	34094
(Changchun)	16309	4618	9826	1865
(Wuhan)	58015	15007	36970	6038
(Nanjing)	70672	20755	37119	12798
(Hangzhou)	125554	24048	66907	34599
(Xi'an)	52249	15336	33214	3699
(Jinan)	39328	8611	27071	3646
(Shenyang)	26021	7208	15693	3120
(Chengdu)	88595	14755	45577	28263
(Dalian)	24479	6380	16062	2037
(Xiamen)	33025	4134	20694	8197
(Harbin)	30975	7867	17817	5291
(Shenzhen)	230505	70870	101617	58018
(Qingdao)	46865	8506	30388	7971
(Ningbo)	150454	9730	72841	67883
(Xinjiang Production and Construction Corps)	1640	288	1246	106

Table 11 Valid Patents of Foreign Origin (By the end of 2014)

Countries and Regions	Total	Invention	Utility Model	Design
Total	610144	487807	26102	96235
Andorra	7	6	0	1
UAE	78	23	13	42
Afghanistan	9	0	0	9
Antigua and Barbuda	8	5	0	3
Anguilla	3	1	2	0
Armenia	2	1	0	1
Netherlands Antilles	90	89	0	1
Angola	1	0	0	1
Argentina	25	20	3	2
American Samoa	3	0	2	1
Austria	2849	2244	161	444
Australia	3573	2129	195	1249
Azerbaijan	1	1	0	0
Bosnia and Herzegovina	1	1	0	0
Barbados	397	348	4	45
Bengal	2	0	1	1
Belgium	2872	2506	64	302
Bulgaria	21	14	2	5
Bahrain Island	3	3	0	0
Benin	1	0	0	1
Bermuda	444	297	60	87
Brunei Darussalam	48	17	22	9
Brazil	649	341	50	258
Bahamas	106	86	3	17
Belize	35	5	21	9
Canada	5101	4007	202	892
Switzerland	16747	12681	760	3306
Cook Islands	25	5	1	19
Chile	37	34	2	1
Cameroon	1	1	0	0
Columbia	23	16	2	5
Costarica	1	0	0	1

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Cuba	72	72	0	0
Cyprus	84	57	5	22
Czech	480	106	42	332
Germany	57399	44796	2481	10122
Denmark	3796	2798	105	893
Dominican Republic	3	1	2	0
Algeria	2	0	0	2
Ecuador	5	3	0	2
Estonia	18	10	0	8
Egypt	25	5	1	19
Spain	1740	894	86	760
Ethiopia	1	0	0	1
Finland	5907	4880	262	765
France	22644	17773	876	3995
Britain	9554	6863	427	2264
Georgia	4	1	0	3
Gibraltar	15	14	0	1
Greece	91	60	1	30
Croatia	11	8	2	1
Hungary	182	153	10	19
Indonesia	72	16	7	49
Ireland	765	682	24	59
Israel	1729	1250	162	317
India	716	586	26	104
Iraq	5	0	3	2
Iran	7	3	3	1
Iceland	96	96	0	0
Italy	9414	5864	290	3260
Jersey Island	3	3	0	0
Jordan	1	0	1	0
Japan	244247	200736	9960	33551
Kenya	1	1	0	0
Kyrgyzstan	1	1	0	0
Saint Kitts and Nevis	3	2	1	0

Continued

Countries and Regions	Total	Invention	Utility Model	Design
DPRK	4	3	1	0
Republic of Korea	48866	38925	1151	8790
Kuwait	3	2	0	1
Cayman Islands	1739	1125	282	332
Kazakhstan	15	11	4	0
Lebanon	8	0	4	4
Saint Lucia	2	2	0	0
Liechtenstein	524	340	1	183
Sri Lanka	2	2	0	0
Lithuania	9	2	1	6
Luxembourg	1291	1001	63	227
Latvia	26	18	2	6
Morocco	10	7	0	3
Monaco	41	36	0	5
Moldova	1	1	0	0
Madagascar	2	2	0	0
Marshall Islands	0	0	0	0
Mali	4	2	2	0
Mongolia	2	2	0	0
Malta	61	57	1	3
Mauritius	128	113	4	11
Mexico	277	201	6	70
Malaysia	568	213	78	277
Nigeria	7	0	2	5
Netherlands	15512	13164	263	2085
Norway	1144	954	27	163
Nepal	3	0	2	1
New Zealand	505	323	24	158
Oman	0	0	0	0
Panama	182	156	2	24
Peru	3	1	2	0
Philippines	65	48	4	13
Pakistan	4	1	2	1
Poland	183	85	10	88
Puerto Rico	3	0	1	2

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Portugal	101	66	2	33
Qatar	3	1	0	2
Romania	4	3	1	0
Serbia	2	2	0	0
Russian Federation	576	341	110	125
Saudi Arabia	309	131	4	174
Seychelles	67	35	20	12
Sweden	10549	8798	286	1465
Singapore	2041	1318	201	522
Slovenia	100	84	1	15
Slovakia	34	13	2	19
San Marino	3	3	0	0
El Salvador	2	2	0	0
Syria	1	0	1	0
Turks and Caicos Islands	1	0	0	1
Thailand	166	45	28	93
Tunisia	1	1	0	0
Tonga	0	0	0	0
Turkey	455	172	45	238
Trinidad and Tobago	3	3	0	0
Tanzania	2	0	1	1
Ukraine	40	18	15	7
United States	129564	106009	6664	16891
Uruguay	7	7	0	0
Uzbekistan	2	1	1	0
Saint Vincent and the Grenadines	24	24	0	0
Venezuela	22	21	0	1
Virgin Islands	1857	747	346	764
Vietnam	22	4	2	16
Samoa	272	166	68	38
Yemen	4	0	0	4
Yugoslavia	3	3	0	0
South Africa	457	377	18	62