

Appendix

1. Statistics

Table 1 Applications for Three Kinds of Patents Received from Home and Abroad, 2003–2015

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	16653753	5894383	5864596	4894774	15175804	4633623	5819278	4722903	1477949	1260760	45318	171871
Average Growth Rate	20.3%	22.3%	21.1%	16.4%	21.7%	27.8%	21.2%	16.8%	9.8%	9.6%	17.4%	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%
2015	2798500	1101864	1127577	569059	2639446	968251	1119714	551481	159054	133613	7863	17578
	18.5%	18.7%	29.8%	0.8%	19.4%	20.9%	30.0%	0.6%	5.6%	5.2%	5.4%	9.0%



	Non-Service	Service				
		Sub-total	Colleges and Universities	Scientific Research Institutions	Factories and Enterprises	Organizations
Accumulated Total	5530882	9645158	1114427	370693	8000755	159283
Average Growth Rate	14.7%	27.5%	32.6%	21.1%	27.2%	33.0%
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%
2015	736372	1903074	235162	64476	1565751	37685
	15.5%	21.0%	27.8%	15.4%	19.8%	40.8%

Table 3 Three Kinds of Patents Granted for Home and Abroad, 2003–2015

	Total				Domestic				Abroad			
	Total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design	Sub-total	Invention	Utility Model	Design
Accumulated Total	9564580	1812308	4457748	3294524	8674718	1124965	4417437	3132316	889862	687343	40311	162208
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%
2015	1718192	359316	876217	482659	1596977	263436	868734	464807	121215	95880	7483	17852
	31.9%	54.1%	23.8%	33.5%	32.0%	61.9%	24.1%	34.0%	29.9%	35.9%	-5.4%	20.4%

Table 4 Applications for Patents Received from Home, 1985–2015

Region	Accumulated Total	1985–2010	2011	2012	2013	2014	2015
Total	16496810	5995367	1504670	1912151	2234560	2210616	2639446
Beijing	963872	375853	77955	92305	123336	138111	156312
Tianjin	433007	149209	38489	41009	60915	63422	79963
Hebei	252463	109948	17595	23241	27619	30000	44060
Shanxi	126593	47544	12769	16786	18859	15687	14948
Inner Mongolia	57101	26905	3841	4732	6388	6359	8876
Liaoning	445138	240875	37102	41152	45996	37860	42153
Jilin	122076	67225	8196	9171	10751	11933	14800
Heilongjiang	248934	96161	23432	30610	32264	31856	34611
Shanghai	852556	421539	80215	82682	86450	81664	100006
Jiangsu	3011074	835293	348381	472656	504500	421907	428337
Zhejiang	1908846	619694	177066	249373	294014	261435	307264
Anhui	555449	111783	48556	74888	93353	99160	127709
Fujian	405049	135029	32325	42773	53701	58075	83146
Jiangxi	149174	47575	9673	12458	16938	25594	36936
Shandong	1192773	447551	109599	128614	155170	158619	193220
Henan	420068	149823	34076	43442	55920	62434	74373
Hubei	452100	174168	42510	51316	50816	59050	74240
Hunan	350533	145277	29516	35709	41336	44194	54501
Guangdong	2233943	909595	196272	229514	264265	278358	355939
Guangxi	166517	45556	8106	13610	23251	32298	43696
Chongqing	347232	89144	32039	38924	49036	55298	82791
Sichuan	602723	202311	49734	66312	82453	91167	110746
Guizhou	109300	31486	8351	11296	17405	22467	18295
Yunnan	102115	43247	7150	9260	11512	13343	17603
Tibet	2440	1247	263	170	203	248	309
Shaanxi	367207	102946	32227	43608	57287	56235	74904
Gansu	74843	23715	5287	8261	10976	12020	14584

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Region	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Qinghai	11528	4729	732	844	1099	1534	2590
Ningxia	23531	9311	1079	1985	3230	3532	4394
Xinjiang	71107	28643	4736	7044	8224	10210	12250
Hainan	20480	9265	1489	1824	2359	2416	3127
Hong Kong	47730	31508	3171	3168	3322	3242	3319
Macao	882	337	36	65	147	84	213
Taiwan	368426	260875	22702	23349	21465	20804	19231
(Guangzhou)	348373	137240	28087	33439	39814	46380	63413
(Changchun)	65603	28910	5391	6161	7113	7846	10182
(Wuhan)	221458	88372	21879	24105	25680	27802	33620
(Nanjing)	319237	77919	31130	42782	55135	56130	56141
(Hangzhou)	384785	122227	40786	53889	58207	48695	60981
(Xi'an)	291911	74590	27717	36983	47111	43849	61661
(Jinan)	193531	76689	18581	23129	22583	23564	28985
(Shenyang)	151201	80050	11906	12899	13190	15044	18112
(Chengdu)	412502	124252	37466	48901	59370	64975	77538
(Dalian)	154189	76578	16279	18171	21376	11215	10570
(Xiamen)	89199	30509	8315	9962	11165	12854	16394
(Harbin)	148124	49511	13013	17041	20224	22833	25502
(Shenzhen)	667256	262051	63522	73169	80692	82321	105501
(Qingdao)	282514	68475	19577	27004	48610	55160	63688
(Ningbo)	426636	104774	47571	73647	83334	58531	58779
(Xinjiang Production and Construction Corps)	5685	1064	571	709	870	933	1538

Region	Total	Invention	Utility Model	Design
Total	2639446	968251	1119714	551481
Beijing	156312	88930	53243	14139
Tianjin	79963	28510	46845	4608
Hebei	44060	11259	24646	8155
Shanxi	14948	5680	7911	1357
Inner Mongolia	8876	2254	5609	1013
Liaoning	42153	19332	19554	3267
Jilin	14800	6154	7345	1301
Heilongjiang	34611	14663	16914	3034
Shanghai	100006	46976	41736	11294
Jiangsu	428337	154608	154281	119448
Zhejiang	307264	67674	150172	89418
Anhui	127709	68314	51559	7836
Fujian	83146	17663	44339	21144
Jiangxi	36936	5722	18620	12594
Shandong	193220	93475	85872	13873
Henan	74373	21338	40778	12257
Hubei	74240	30204	35676	8360
Hunan	54501	19499	23641	11361
Guangdong	355939	103941	135717	116281
Guangxi	43696	30815	9740	3141
Chongqing	82791	35086	38533	9172
Sichuan	110746	40437	41859	28450
Guizhou	18295	7538	8317	2440

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Region	Total	Invention	Utility Model	Design
Yunnan	17603	6301	9147	2155
Tibet	309	128	90	91
Shaanxi	74904	17322	21449	36133
Gansu	14584	5504	6825	2255
Qinghai	2590	1103	1184	303
Ningxia	4394	2626	1591	177
Xinjiang	12250	3024	6354	2872
Hainan	3127	1211	1521	395
Hong Kong	3319	1001	881	1437
Macao	213	26	35	152
Taiwan	19231	9933	7730	1568
(Guangzhou)	63413	20087	24763	18563
(Changchun)	10182	4664	4907	611
(Wuhan)	33620	15077	16158	2385
(Nanjing)	56141	27825	20549	7767
(Hangzhou)	60981	17814	29126	14041
(Xi'an)	61661	14244	15970	31447
(Jinan)	28985	15120	12235	1630
(Shenyang)	18112	9946	7046	1120
(Chengdu)	77538	29791	26084	21663
(Dalian)	10570	5130	4696	744
(Xiamen)	16394	4326	8057	4011
(Harbin)	25502	12500	11058	1944
(Shenzhen)	105501	40028	41632	23841
(Qingdao)	63688	44962	15926	2800
(Ningbo)	58779	16056	24869	17854
(Xinjiang Production and Construction Corps)	1538	564	912	62

Countries and Regions	Accumulated Total	1985–2010	2011	2012	2013	2014	2015
Total	1756471	1037114	128677	138498	142501	150627	159054
Andorra	17	11	1	1	2	2	0
UAE	255	142	20	11	33	27	22
Afghanistan	11	8	2	1	0	0	0
Antigua and Barbuda	11	8	3	0	0	0	0
Anguilla	4	2	0	1	0	0	1
Armenia	8	4	1	0	0	2	1
Netherlands Antilles	327	294	6	8	7	6	6
Angola	1	0	0	0	0	1	0
Argentina	159	99	10	11	7	11	21
American Samoa	1	0	0	0	0	1	0
Austria	8745	4206	697	759	951	1062	1070
Australia	12987	8480	867	957	876	919	888
Aruba	1	1	0	0	0	0	0
Azerbaijan	6	2	1	2	0	0	1
Bosnia and Herzegovina	1	0	0	0	1	0	0
Barbados	1085	415	106	99	152	178	135
Bengal	12	3	0	0	1	3	5
Belgium	8239	4702	669	693	698	732	745
Bulgaria	121	80	4	4	5	15	13
Bahrain Island	4	3	0	0	0	0	1
Burundi	1	1	0	0	0	0	0
Benin	1	0	1	0	0	0	0
Bermuda	1207	566	121	129	155	134	102
Brunei Darussalam	99	69	6	8	5	9	2
Bolivia	1	1	0	0	0	0	0
Brazil	1952	1021	203	159	165	234	170
Bahamas	275	196	17	13	7	19	23
Belarus	28	28	0	0	0	0	0
Belize	97	38	2	4	14	17	22
Canada	15148	9032	1191	1352	1237	1183	1153
Domestic Republic of Congo	13	0	0	0	0	0	13
Central-African Republic	2	2	0	0	0	0	0
Switzerland	47554	28076	3293	3545	3926	4276	4438
Cook Islands	19	10	6	0	2	0	1

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Countries and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Chile	178	76	17	21	17	25	22
Cameroon	2	2	0	0	0	0	0
Columbia	77	40	7	10	6	6	8
Costa Rica	8	3	0	0	4	0	1
Czechoslovakia	72	72	0	0	0	0	0
Serbia and Montenegro	2	2	0	0	0	0	0
Cuba	171	131	6	8	8	6	12
Curacao	1	0	0	0	0	0	1
Cyprus	333	179	34	36	28	33	23
Czech	1098	553	72	154	74	92	153
Germany	168722	92878	13096	14552	15925	16026	16245
Denmark	11420	6501	937	884	1061	1025	1012
Commonwealth of Dominica	3	3	0	0	0	0	0
Dominican Republic	5	2	0	0	3	0	0
Algeria	7	4	0	2	0	0	1
Ecuador	18	7	3	2	1	3	2
Estonia	67	26	5	11	4	17	4
Egypt	55	27	7	15	1	0	5
Western Sahara	1	1	0	0	0	0	0
Spain	6368	3750	525	548	533	497	515
Ethiopia	2	0	0	0	0	2	0
Finland	16914	10803	1076	1255	1222	1333	1225
Fiji	10	10	0	0	0	0	0
Falkland Islands (Malvinas Islands)	1	1	0	0	0	0	0
France	64390	38447	4575	5128	5126	5460	5654
Britain	35256	22547	2275	2273	2455	2674	3032
Grenada	1	1	0	0	0	0	0
Guemsey Islands	1	0	0	0	0	0	1
Georgia	13	8	0	1	0	0	4
Gibraltar	29	14	3	5	1	2	4
Greece	318	186	23	26	13	28	42
Guatemala	7	1	0	0	0	0	6
Honduras	1	1	0	0	0	0	0
Croatia	142	121	3	5	5	4	4
Haiti	1	1	0	0	0	0	0

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Countries and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Hungary	971	767	55	36	33	32	48
Indonesia	243	168	26	16	13	8	12
Ireland	2216	1166	176	213	213	244	204
Israel	7094	3564	634	686	669	764	777
India	3048	1667	228	264	302	307	280
Iraq	10	2	1	2	2	0	3
Iran	34	16	3	0	1	0	14
Iceland	209	147	17	8	11	15	11
Italy	26125	16204	1815	2020	1992	1978	2116
Jersey Island	10	7	0	0	0	1	2
Jamaica	5	0	0	3	0	1	1
Jordan	35	16	1	2	5	0	11
Japan	610359	372763	45228	49678	48537	47547	46606
Kenya	6	0	2	2	1	0	1
Kyrgyzstan	5	4	0	1	0	0	0
Cambodia	2	0	0	0	0	0	2
Saint Kitts and Nevis	6	3	0	1	2	0	0
DPRK	25	19	0	3	2	1	0
Republic of Korea	147747	83787	9860	10793	12916	13994	16397
Kuwait	16	11	2	1	2	0	0
Cayman Islands	8743	1368	691	805	699	1764	3416
Kazakhstan	38	22	4	2	5	1	4
Lebanon	28	9	5	4	4	1	5
Liechtenstein	1896	1235	155	135	105	112	154
Sri Lanka	67	47	0	2	3	0	15
Liberia	3	3	0	0	0	0	0
Lesotho	1	1	0	0	0	0	0
Lithuania	27	5	1	3	3	10	5
Luxembourg	2181	915	215	187	227	324	313
Latvia	67	36	11	5	5	5	5
Morocco	56	15	2	2	2	0	35
Monaco	162	112	7	7	8	10	18
Moldova	6	2	0	1	0	3	0
Madagascar	2	2	0	0	0	0	0
Marshall Islands	15	4	2	1	2	3	3

Continued

Countries and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Macedonia	2	0	0	0	1	1	0
Mali	51	10	10	7	6	2	16
Myanmar	4	0	0	0	0	4	0
Mongolia	5	1	3	0	1	0	0
Malta	168	61	13	7	14	25	48
Mauritius	153	111	10	4	20	3	5
Maldives	2	2	0	0	0	0	0
Malawi	2	2	0	0	0	0	0
Mexico	651	286	53	51	49	127	85
Malaysia	1583	894	141	135	113	165	135
Namibia	2	2	0	0	0	0	0
Niger	1	1	0	0	0	0	0
Nigeria	17	8	0	0	5	4	0
Netherlands	51886	35771	3473	3035	2888	3324	3395
Norway	3596	2263	275	262	268	271	257
Nepal	3	0	0	3	0	0	0
New Zealand	1857	1051	111	132	157	191	215
Oman	3	3	0	0	0	0	0
Panama	322	281	10	8	5	7	11
Peru	14	5	3	3	2	0	1
The State of Papua New Guinea	2	0	0	0	0	0	2
Philippines	136	73	5	5	5	16	32
Pakistan	26	10	2	1	4	5	4
Poland	666	267	58	72	81	99	89
Puerto Rico	22	6	0	5	5	3	3
Portugal	326	185	28	22	32	27	32
Paraguay	2	1	0	0	0	1	0
Qatar	17	0	0	2	1	6	8
Romania	40	22	6	4	4	3	1
Serbia	13	4	1	0	5	1	2
Russian Federation	2577	1583	170	183	233	211	197
Saudi Arabia	970	473	36	39	58	210	154
Seychelles	193	37	9	43	16	46	42
Sudan	2	1	0	0	0	0	1

Continued

Countries and Regions	Accumulated Total	1985–2010	2011	2012	2013	2014	2015
Sweden	27823	17205	1963	1988	2119	2337	2211
Singapore	6506	2959	645	651	680	696	875
Slovenia	332	202	38	19	23	21	29
Slovakia	113	56	11	9	9	12	16
San Marino	19	16	2	1	0	0	0
Senegal	2	2	0	0	0	0	0
El Salvador	2	1	1	0	0	0	0
Syria	6	3	0	0	0	1	2
Swaziland	1	1	0	0	0	0	0
Turks and Caicos Islands	1	0	0	1	0	0	0
Chad	2	0	1	0	0	0	1
Thailand	674	511	25	32	34	31	41
Tunisia	18	8	1	1	5	1	2
Turkey	1129	502	104	101	140	156	126
Trinidad and Tobago	5	5	0	0	0	0	0
Tanzania	2	0	0	0	2	0	0
Ukraine	157	77	10	11	22	23	14
Uganda	2	2	0	0	0	0	0
United States	432852	250577	32023	33556	34421	38997	43278
Uruguay	27	17	5	0	0	0	5
Uzbekistan	10	5	1	0	1	3	0
Vatican	2	2	0	0	0	0	0
Saint Vincent and the Grenadines	9	3	1	1	1	1	2
Venezuela	63	47	1	6	0	5	4
Virgin Islands	4031	2328	286	386	443	270	318
Vietnam	69	17	7	18	11	5	11
Vanuatu	12	12	0	0	0	0	0
Samoa	274	138	20	24	31	33	28
Yemen	5	3	1	0	1	0	0
Yugoslavia	39	39	0	0	0	0	0
South Africa	1414	967	82	94	90	94	87
Zambia	4	2	0	0	0	0	2
Zimbabwe	8	8	0	0	0	0	0

Table 7 Patents Granted for Domestic Applications, 1985–2015

Region	Accumulated Total	1985–2010	2011	2012	2013	2014	2015
Total	9466351	3384472	883861	1163226	1228413	1209402	1596977
Beijing	511307	188545	40888	50511	62671	74661	94031
Tianjin	182335	60022	13982	19782	24856	26351	37342
Hebei	164081	69199	11119	15315	18186	20132	30130
Shanxi	65689	26563	4974	7196	8565	8371	10020
Inner Mongolia	34589	15854	2262	3084	3836	4031	5522
Liaoning	227292	120530	19176	21223	21656	19525	25182
Jilin	68949	36306	4920	5930	6219	6696	8878
Heilongjiang	140531	53853	12236	20268	19819	15412	18943
Shanghai	484311	225052	47960	51508	48680	50488	60623
Jiangsu	1567109	407384	199814	269944	239645	200032	250290
Zhejiang	1369864	425334	130190	188463	202350	188544	234983
Anhui	283253	50983	32681	43321	48849	48380	59039
Fujian	278230	88887	21857	30497	37511	37857	61621
Jiangxi	87811	26314	5550	7985	9970	13831	24161
Shandong	617287	235052	58844	75496	76976	72818	98101
Henan	238393	81729	19259	26791	29482	33366	47766
Hubei	216982	77641	19035	24475	28760	28290	38781
Hunan	200441	76061	16064	23212	24392	26637	34075
Guangdong	1447981	574411	128413	153598	170430	179953	241176
Guangxi	67758	26335	4402	5900	7884	9664	13573
Chongqing	176436	52493	15525	20364	24828	24312	38914
Sichuan	353266	124358	28446	42218	46171	47120	64953
Guizhou	59168	17586	3386	6059	7915	10107	14115
Yunnan	63314	26676	4199	5853	6804	8124	11658
Tibet	1575	835	142	133	121	146	198
Shaanxi	151902	48326	11662	14908	20836	22820	33350
Gansu	35096	12305	2383	3662	4737	5097	6912

Continued

Region	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Qinghai	5888	2485	538	527	502	619	1217
Ningxia	11864	5907	613	844	1211	1424	1865
Xinjiang	42102	17024	2642	3439	4998	5238	8761
Hainan	11887	5040	765	1093	1331	1597	2061
Hong Kong	38331	25020	2588	2619	2297	2867	2940
Macao	540	205	19	26	93	55	142
Taiwan	260789	180157	17327	16982	15832	14837	15654
(Guangzhou)	220656	85999	18339	22045	26192	28198	39883
(Changchun)	35621	14190	3146	3884	4014	4406	5981
(Wuhan)	122408	43155	11588	13689	15901	16335	21740
(Nanjing)	136974	35343	12419	18584	19565	22910	28153
(Hangzhou)	266791	75746	29075	40554	41511	33585	46320
(Xi'an)	112235	31982	9274	11862	16250	17495	25372
(Jinan)	100724	35377	11345	14264	12405	11760	15573
(Shenyang)	76342	41515	5456	6752	6924	6661	9034
(Chengdu)	240875	76859	21228	32533	33468	31935	44852
(Dalian)	64644	28655	8115	7491	7316	5886	7181
(Xiamen)	64083	21454	5485	7479	8248	8943	12474
(Harbin)	73448	25334	6260	9788	10315	9284	12467
(Shenzhen)	402829	139063	39363	48791	49785	53701	72126
(Qingdao)	106774	36747	9085	12721	13861	14184	20176
(Ningbo)	320435	76171	37309	59175	58406	43286	46088
(Xinjiang Production and Construction Corps)	3283	604	307	437	479	526	930

Table 8 Three Kinds of Patents Granted for Domestic Applications in 2015

Region	Total	Invention	Utility Model	Design
Total	1596977	263436	868734	464807
Beijing	94031	35308	45773	12950
Tianjin	37342	4624	28486	4232
Hebei	30130	3840	19103	7187
Shanxi	10020	2432	6037	1551
Inner Mongolia	5522	797	3757	968
Liaoning	25182	6569	15706	2907
Jilin	8878	2240	5638	1000
Heilongjiang	18943	4024	12502	2417
Shanghai	60623	17601	33131	9891
Jiangsu	250290	36015	119513	94762
Zhejiang	234983	23345	124465	87173
Anhui	59039	11180	41094	6765
Fujian	61621	5730	34086	21805
Jiangxi	24161	1639	13408	9114
Shandong	98101	16881	68776	12444
Henan	47766	5384	32592	9790
Hubei	38781	7766	25298	5717
Hunan	34075	6776	18467	8832
Guangdong	241176	33477	105254	102445
Guangxi	13573	4017	7091	2465
Chongqing	38914	3964	25444	9506
Sichuan	64953	9105	31420	24428
Guizhou	14115	1501	7007	5607
Yunnan	11658	2079	7437	2142
Tibet	198	40	51	107
Shaanxi	33350	6812	16151	10387
Gansu	6912	1238	4478	1196

Continued

Region	Total	Invention	Utility Model	Design
Qinghai	1217	207	687	323
Ningxia	1865	442	1267	156
Xinjiang	8761	950	5049	2762
Hainan	2061	417	1148	496
Hong Kong	2940	621	802	1517
Macao	142	17	20	105
Taiwan	15654	6398	7596	1660
(Guangzhou)	39883	6626	17293	15964
(Changchun)	5981	1832	3681	468
(Wuhan)	21740	6003	13609	2128
(Nanjing)	28153	8268	15093	4792
(Hangzhou)	46320	8298	24816	13206
(Xi'an)	25372	5992	12135	7245
(Jinan)	15573	3915	10070	1588
(Shenyang)	9034	2680	5388	966
(Chengdu)	44852	6206	19954	18692
(Dalian)	7181	2337	4076	768
(Xiamen)	12474	1694	6619	4161
(Harbin)	12467	3490	7579	1398
(Shenzhen)	72126	16956	33104	22066
(Qingdao)	20176	5170	12320	2686
(Ningbo)	46088	5412	23071	17605
(Xinjiang Production and Construction Corps)	930	174	709	47

Table 9 Patents Granted for Foreign Applications, 1985–2015

Countires and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Total	980538	512887	76652	91912	84587	93285	121215
Andorra	8	4	0	0	1	2	1
UAE	193	119	4	10	12	29	19
Afghanistan	10	7	2	0	1	0	0
Antigua and Barbuda	7	5	0	0	1	1	0
Anguilla	2	0	0	1	1	0	0
Armenia	3	2	0	0	0	1	0
Netherlands Antilles	217	173	11	10	10	4	9
Angola	1	0	0	0	0	1	0
Argentina	58	29	4	5	7	4	9
American Samoa	2	0	0	0	0	1	1
Austria	4638	2145	342	381	412	572	786
Australia	7224	4206	481	670	584	517	766
Azerbaijan	2	0	1	0	0	0	1
Barbados	481	98	39	67	64	85	128
Bengal	4	2	0	0	0	2	0
Belgium	4457	1974	395	537	494	445	612
Bulgaria	55	36	2	4	2	6	5
Bahrain Island	1	1	0	0	0	0	0
Benin	1	0	0	1	0	0	0
Bermuda	575	165	83	112	91	74	50
Brunei Darussalam	85	47	10	8	3	6	11
Brazil	1072	478	77	114	99	148	156
Bahamas	176	107	10	9	11	17	22
Belarus	14	14	0	0	0	0	0
Belize	62	22	4	2	14	8	12
Canada	7564	3720	677	812	721	760	874
Domestic Republic of Congo	6	0	0	0	0	0	6
Central-African Republic	2	2	0	0	0	0	0
Switzerland	27338	14221	2041	2539	2293	2820	3424
Cook Islands	20	12	6	0	1	1	0

Continued

Countires and Regions	Accumulated Total	1985–2010	2011	2012	2013	2014	2015
Chile	65	21	4	2	9	14	15
Cameroon	1	0	0	1	0	0	0
Columbia	39	20	3	1	7	4	4
Costa Rica	2	1	0	0	0	1	0
Czechoslovakia	32	32	0	0	0	0	0
Cuba	99	55	5	11	12	9	7
Curacao	1	0	0	0	0	0	1
Cyprus	171	66	32	27	12	21	13
Czech	869	426	59	110	80	70	124
Germany	90350	43295	7098	8702	8623	9440	13192
Denmark	6297	3107	468	574	629	698	821
Dominican Republic	7	3	0	1	0	2	1
Algeria	4	1	0	0	0	2	1
Ecuador	9	1	1	3	1	1	2
Estonia	35	10	2	3	2	8	10
Egypt	32	9	6	14	1	2	0
Spain	3507	1849	307	288	279	370	414
Ethiopia	2	0	0	0	0	1	1
Finland	9618	5374	679	939	790	809	1027
Fiji	9	9	0	0	0	0	0
Falkland Islands (Malvinas Islands)	1	1	0	0	0	0	0
France	37008	19663	2528	3345	3475	3556	4441
Gabon	2	2	0	0	0	0	0
Britain	18506	10369	1271	1571	1520	1584	2191
Georgia	5	4	0	0	0	1	0
Gibraltar	22	10	1	0	3	3	5
Greece	159	76	16	15	6	16	30
Guatemala	1	0	0	0	0	0	1
Honduras	1	1	0	0	0	0	0
Croatia	65	56	3	4	2	0	0
Haiti	1	1	0	0	0	0	0

Continued

Countires and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Hungary	418	290	23	24	33	23	25
Indonesia	175	120	17	12	12	6	8
Ireland	1115	413	100	134	120	157	191
Israel	2904	1165	228	345	352	361	453
India	1388	673	86	113	118	157	241
Iraq	5	1	0	1	1	1	1
Iran	24	4	3	1	0	2	14
Iceland	123	43	15	16	19	20	10
Italy	16533	8879	1342	1542	1463	1538	1769
Jersey Island	5	4	0	1	0	0	0
Jordan	14	8	0	3	0	0	3
Japan	384263	211003	30637	35403	29830	33955	43435
Kenya	2	0	1	0	0	1	0
Kyrgyzstan	3	2	0	1	0	0	0
Saint Kitts and Nevis	2	0	0	0	1	1	0
DPRK	13	6	3	1	2	0	1
Republic of Korea	78472	42636	6631	6941	6031	6812	9421
Kuwait	8	8	0	0	0	0	0
Cayman Islands	2144	459	223	223	247	268	724
Kazakhstan	22	10	2	7	1	1	1
Lebanon	17	6	2	2	3	0	4
Liechtenstein	1194	788	88	79	58	56	125
Sri Lanka	33	28	1	0	0	1	3
Liberia	3	3	0	0	0	0	0
Lesotho	1	1	0	0	0	0	0
Lithuania	12	2	0	3	0	6	1
Luxembourg	1263	471	62	175	144	178	233
Latvia	39	10	7	5	6	4	7
Morocco	52	8	4	1	4	0	35
Monaco	90	67	4	5	4	5	5
Moldova	2	0	0	0	0	1	1

Continued

Countries and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Madagascar	2	2	0	0	0	0	0
Marshall Islands	5	0	1	1	0	0	3
Mali	10	1	1	2	0	1	5
Myanmar	4	0	0	0	0	0	4
Mongolia	7	5	0	0	1	1	0
Malta	70	13	7	11	16	14	9
Mauritius	126	77	8	20	5	6	10
Maldives	1	1	0	0	0	0	0
Mexico	399	110	31	49	46	53	110
Malaysia	990	533	76	96	63	95	127
Namibia	1	1	0	0	0	0	0
Nigeria	13	5	0	0	1	4	3
Netherlands	27420	15603	2228	2440	2187	2304	2658
Norway	1995	1076	146	177	173	185	238
Nepal	3	0	0	2	1	0	0
New Zealand	917	466	61	79	92	88	131
Oman	1	1	0	0	0	0	0
Panama	268	191	19	26	19	6	7
Peru	5	1	0	0	2	1	1
The State of Papua New Guinea	1	0	0	0	0	0	1
Philippines	72	44	5	1	0	9	13
Pakistan	13	6	0	0	0	3	4
Poland	323	126	36	43	28	46	44
Puerto Rico	7	2	0	1	1	0	3
Portugal	156	61	17	19	15	12	32
Paraguay	1	1	0	0	0	0	0
Qatar	5	0	0	0	1	2	2
Romania	21	11	1	5	2	0	2
Serbia	5	1	1	0	2	0	1
Russian Federation	1208	615	86	113	97	144	153
Saudi Arabia	513	348	19	26	34	27	59

Continued

Countries and Regions	Accumulated Total	1985-2010	2011	2012	2013	2014	2015
Seychelles	92	17	2	7	9	21	36
Sweden	16023	8348	1250	1689	1465	1494	1777
Singapore	3334	1432	306	403	334	370	489
Slovenia	189	83	18	18	14	25	31
Slovakia	65	36	5	8	3	4	9
San Marino	10	8	0	0	2	0	0
Senegal	1	1	0	0	0	0	0
El Salvador	2	1	0	0	0	1	0
Syria	5	3	0	0	0	1	1
Swaziland	1	1	0	0	0	0	0
Turks and Caicos Islands	1	0	0	0	1	0	0
Thailand	463	357	17	16	20	26	27
Tunisia	3	3	0	0	0	0	0
Turkey	733	318	62	75	81	85	112
Trinidad and Tobago	4	1	0	3	0	0	0
Tanzania	2	0	0	0	0	2	0
Ukraine	80	38	2	4	8	16	12
Uganda	2	2	0	0	0	0	0
United States	209589	102059	15822	20160	20666	22040	28842
Uruguay	13	8	0	2	0	3	0
Uzbekistan	6	3	0	1	0	0	2
Saint Vincent and the Grenadines	8	1	0	2	1	3	1
Venezuela	47	33	2	2	1	5	4
Virgin Islands	2782	1189	207	366	362	417	241
Vietnam	45	6	4	12	15	2	6
Vanuatu	5	4	1	0	0	0	0
Samoa	172	70	10	18	22	31	21
Yemen	4	3	1	0	0	0	0
Yugoslavia	24	22	1	0	0	1	0
South Africa	729	376	48	84	75	67	79
Zambia	1	0	0	0	0	0	1
Zimbabwe	4	4	0	0	0	0	0

Table 10 Valid Patents of Domestic Origin (By the end of 2015)

Region	Total	Invention	Utility Model	Design
Total	4792356	921757	2700833	1169766
Beijing	344916	133040	175610	36266
Tianjin	103775	18493	73557	11725
Hebei	86360	12279	57744	16337
Shanxi	34009	8104	21773	4132
Inner Mongolia	16799	3051	10769	2979
Liaoning	90970	23242	58904	8824
Jilin	29046	7705	17693	3648
Heilongjiang	58789	12955	37013	8821
Shanghai	251157	69982	144098	37077
Jiangsu	674053	113160	370168	190725
Zhejiang	668889	70981	363027	234881
Anhui	162177	26075	114736	21366
Fujian	162451	17868	93335	51248
Jiangxi	51824	5322	29514	16988
Shandong	270920	47694	186544	36682
Henan	126381	17571	87001	21809
Hubei	119345	24998	79125	15222
Hunan	107088	22183	63061	21844
Guangdong	802493	138878	370988	292627
Guangxi	37215	9418	20921	6876
Chongqing	94975	12810	59821	22344
Sichuan	169203	28723	90146	50334
Guizhou	34909	5428	19428	10053
Yunnan	34045	7608	20543	5894
Tibet	724	298	161	265
Shaanxi	86053	22662	48040	15351
Gansu	18580	4093	12013	2474

Continued

Region	Total	Invention	Utility Model	Design
Qinghai	2975	655	1557	763
Ningxia	5317	1148	3612	557
Xinjiang	21681	3072	13936	4673
Hainan	6416	2111	2953	1352
Hong Kong	14608	3948	3874	6786
Macao	360	73	127	160
Taiwan	103853	46129	49041	8683
(Guangzhou)	125200	24142	58161	42897
(Changchun)	19423	5724	11629	2070
(Wuhan)	70850	19610	44404	6836
(Nanjing)	87830	27173	46979	13678
(Hangzhou)	142177	30280	77349	34548
(Xi'an)	67216	19787	37187	10242
(Jinan)	46854	11387	30862	4605
(Shenyang)	30301	9104	18069	3128
(Chengdu)	109668	19758	55229	34681
(Dalian)	26655	8135	16284	2236
(Xiamen)	41144	5550	24626	10968
(Harbin)	35846	10618	20921	4307
(Shenzhen)	274348	83905	123086	67357
(Qingdao)	58165	13047	36057	9061
(Ningbo)	145588	14132	74772	56684
(Xinjiang Production and Construction Corps)	2248	432	1694	122

Table 11 Valid Patents of Foreign Origin (By the end of 2015)

Countries and Regions	Total	Invention	Utility Model	Design
Total	685269	550617	31721	102931
Andorra	8	6	1	1
UAE	89	31	14	44
Afghanistan	7	0	0	7
Antigua and Barbuda	7	4	0	3
Anguilla	1	0	1	0
Armenia	1	0	0	1
Netherlands Antilles	89	88	1	0
Angola	1	0	0	1
Argentina	30	23	3	4
American Samoa	4	1	2	1
Austria	3432	2769	179	484
Australia	3907	2361	244	1302
Azerbaijan	2	2	0	0
Bosnia and Herzegovina	1	1	0	0
Barbados	512	447	2	63
Bengal	2	0	1	1
Belgium	3318	2806	89	423
Bulgaria	25	17	3	5
Bahrain Island	3	3	0	0
Benin	1	0	0	1
Bermuda	460	308	65	87
Brunei Darussalam	46	24	14	8
Brazil	742	391	56	295
Bahamas	120	98	3	19
Belize	45	4	31	10
Canada	5595	4425	221	949
Domestic Republic of Congo	6	0	0	6
Switzerland	19314	14708	937	3669
Cook Islands	23	5	1	17
Chile	52	48	2	2
Cameroon	1	1	0	0
Columbia	23	17	2	4
Costarica	1	0	0	1
Cuba	72	72	0	0

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Curacao	1	1	0	0
Cyprus	83	59	7	17
Czech	510	111	52	347
Germany	66854	52764	3231	10859
Denmark	4383	3297	128	958
Dominican Republic	2	2	0	0
Algeria	3	1	0	2
Ecuador	7	3	0	4
Estonia	26	15	1	10
Egypt	9	4	0	5
Spain	1934	1038	97	799
Ethiopia	2	0	1	1
Finland	6602	5462	308	832
France	25440	20237	1105	4098
Britain	10892	7755	468	2669
Georgia	1	1	0	0
Gibraltar	21	17	1	3
Greece	115	72	1	42
Guatemala	1	0	0	1
Croatia	8	7	1	0
Hungary	166	140	8	18
Indonesia	60	17	7	36
Ireland	929	829	30	70
Israel	2025	1501	184	340
Isle of Man	1	1	0	0
India	865	720	31	114
Iraq	6	0	3	3
Iran	20	3	2	15
Iceland	101	100	0	1
Italy	10354	6678	341	3335
Jersey Island	3	3	0	0
Jordan	3	0	0	3
Japan	267493	221854	12195	33444
Kenya	1	1	0	0
Kyrgyzstan	1	1	0	0

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Saint Kitts and Nevis	3	2	1	0
DPRK	4	2	2	0
Republic of Korea	54535	42312	1514	10709
Kuwait	3	2	0	1
Cayman Islands	2499	1538	271	690
Kazakhstan	14	10	4	0
Lebanon	10	3	2	5
Saint Lucia	2	2	0	0
Liechtenstein	584	400	2	182
Sri Lanka	5	4	0	1
Lithuania	12	3	2	7
Luxembourg	1483	1110	79	294
Latvia	29	21	2	6
Morocco	44	8	0	36
Monaco	46	39	1	6
Moldova	1	0	0	1
Madagascar	2	2	0	0
Marshall Islands	3	1	2	0
Mali	8	2	2	4
Myanmar	4	0	0	4
Mongolia	1	1	0	0
Malta	65	61	1	3
Mauritius	132	114	3	15
Mexico	343	225	5	113
Malaysia	638	264	83	291
Nigeria	4	0	0	4
Netherlands	17046	14602	342	2102
Norway	1283	1081	29	173
Nepal	3	0	2	1
New Zealand	594	371	34	189
Oman	0	0	0	0
Panama	172	142	3	27
Peru	4	2	2	0
The State of Papua New Guinea	1	0	0	1
Philippines	74	56	3	15

Continued

Countries and Regions	Total	Invention	Utility Model	Design
Pakistan	8	2	2	4
Poland	218	118	11	89
Puerto Rico	6	3	1	2
Portugal	111	77	1	33
Qatar	6	2	0	4
Romania	4	2	2	0
Serbia	3	3	0	0
Russian Federation	662	394	129	139
Saudi Arabia	357	186	6	165
Seychelles	100	42	30	28
Sweden	11583	9597	313	1673
Singapore	2370	1579	223	568
Slovenia	116	100	1	15
Slovakia	32	16	1	15
San Marino	1	1	0	0
El Salvador	2	2	0	0
Syria	2	0	1	1
Turks and Caicos Islands	1	0	0	1
Thailand	218	58	26	134
Tunisia	1	1	0	0
Turkey	505	228	45	232
Trinidad and Tobago	3	3	0	0
Tanzania	2	0	1	1
Ukraine	43	22	13	8
United States	149545	122829	7968	18748
Uruguay	6	6	0	0
Uzbekistan	3	3	0	0
Saint Vincent and the Grenadines	25	25	0	0
Venezuela	25	24	0	1
Virgin Islands	1964	959	363	642
Vietnam	27	7	2	18
Samoa	323	186	102	35
Yemen	1	0	0	1
Yugoslavia	2	2	0	0
South Africa	480	406	14	60
Zambia	1	0	1	0