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Detailed table 5.1
USPTO patents issued to U.S. residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to U.S. residents				
	1974	1982	1990	1998	2006
Total	151,061	150,762	204,532	332,460	334,696
4. Information technology	2,365	1,911	4,255	22,685	44,944
3. Telecommunications	5,566	4,029	6,089	17,415	37,488
7. Analysis, measurement, control	9,855	7,627	12,281	20,285	25,702
1. Electrical components	12,878	13,244	15,546	24,037	22,493
29. Consumer goods & equipment	11,634	8,924	15,738	20,943	16,791
5. Semiconductors	1,725	1,939	3,530	8,550	14,700
10. Organic fine chemicals	3,594	8,997	9,640	16,279	11,024
8. Medical engineering	2,845	2,876	6,783	15,167	10,904
2. Audiovisual technology	2,692	2,368	3,180	7,069	10,293
18. Technical procedures	6,860	7,099	9,224	12,011	10,252
6. Optics	4,184	3,362	5,023	8,551	9,809
30. Civil engineering, building	7,581	5,318	7,835	10,087	9,485
12. Basic materials chemistry	3,179	5,726	7,808	12,928	9,406
27. Transport	7,454	4,557	6,795	9,399	9,381
19. Handling, printing	11,115	7,992	11,796	13,946	9,199
11. Macromolecular chemistry	4,385	10,836	11,200	14,210	9,193
20. Materials processing	8,402	10,134	11,839	17,306	9,160
13. Surface treatments	5,216	8,944	9,795	14,842	8,397
16. Pharmaceuticals, cosmetics	488	2,135	4,352	11,812	8,319
15. Biotechnology	232	809	1,937	9,852	7,927
23. Machine-tools	8,600	4,871	6,712	7,912	7,501
24. Engines, pumps, turbines	6,052	4,372	4,455	4,680	7,167
26. Mechanical components	8,103	6,277	7,777	8,540	6,437
17. Agricultural & food products	1,875	2,901	4,486	4,941	4,315
22. Agricultural & food processing apparatus	4,021	2,736	3,622	4,531	3,357
14. Materials, metallurgy	3,466	3,814	4,823	5,109	3,182
25. Thermal procedures	3,414	3,924	3,216	3,287	2,803
21. Environment, pollution	1,001	1,346	2,141	3,057	2,373
28. Space technology, weapons	1,460	993	1,621	1,908	1,397
9. Nuclear techniques	819	701	1,033	1,121	1,297

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.2
USPTO patents issued to Japanese residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to Japanese residents				
	1974	1982	1990	1998	2006
Total	15,811	35,266	77,802	117,154	128,905
4. Information technology	389	684	3,347	9,327	14,793
1. Electrical components	1,611	3,855	7,093	11,230	13,729
6. Optics	1,358	2,477	6,343	10,662	11,838
3. Telecommunications	764	1,114	2,469	6,987	11,811
5. Semiconductors	436	717	2,792	7,036	11,211
2. Audiovisual technology	641	1,281	3,390	6,954	9,970
7. Analysis, measurement, control	1,031	1,759	4,279	5,899	8,055
11. Macromolecular chemistry	746	3,250	5,591	6,901	4,557
13. Surface treatment	709	2,675	4,558	6,698	4,030
27. Transport	579	1,079	2,667	2,798	3,971
19. Handling, printing	716	1,320	3,366	3,901	3,781
20. Materials processing	1,156	2,562	5,034	6,539	3,742
24. Engines, pumps, turbines	614	1,356	2,234	2,254	3,382
23. Machine-tools	664	987	2,040	2,482	2,725
26. Mechanical components	559	1,037	2,763	2,818	2,494
10. Organic fine chemicals	385	1,850	3,963	3,911	2,427
29. Consumer goods & equipment	639	1,049	2,370	2,878	2,283
18. Technical procedures	610	1,154	1,771	2,530	2,165
12. Basic materials chemistry	253	910	2,202	2,920	1,800
14. Materials, metallurgy	514	1,095	2,225	2,492	1,725
8. Medical engineering	106	377	1,011	1,565	1,363
15. Biotechnology	91	237	627	1,456	1,143
16. Pharmaceuticals, cosmetics	74	517	1,259	1,791	1,039
25. Thermal procedures	291	490	947	847	927
9. Nuclear techniques	59	142	455	391	873
21. Environment, pollution	137	258	400	852	851
22. Agricultural & food processing apparatus	231	265	786	1,080	809
17. Agricultural & food products	171	400	944	906	660
30. Civil engineering, building	252	328	786	927	655
28. Space technology, weapons	25	41	90	122	96

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.3
USPTO patents issued to German residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to German residents				
	1974	1982	1990	1998	2006
Total	16,228	24,935	35,773	44,012	43,456
1. Electrical components	1,370	2,056	2,082	3,314	3,548
7. Analysis, measurement, control	843	1,007	1,621	2,388	3,308
11. Macromolecular chemistry	559	1,985	2,847	4,672	2,921
3. Telecommunications	392	526	455	952	2,908
4. Information technology	205	197	305	1,010	2,623
10. Organic fine chemicals	530	2,859	3,920	3,805	2,454
20. Materials processing	1,525	2,022	2,890	3,055	2,203
24. Engines, pumps, turbines	839	837	1,010	1,033	1,824
18. Technical procedures	909	1,248	1,641	1,953	1,773
27. Transport	850	707	1,060	1,607	1,772
26. Mechanical components	1,024	1,085	1,805	1,805	1,723
13. Surface treatment	519	1,351	1,691	2,263	1,639
12. Basic materials chemistry	366	1,437	2,450	2,490	1,623
5. Semiconductors	211	214	362	588	1,580
23. Machine-tools	1,144	950	1,522	1,440	1,491
19. Handling, printing	1,006	1,018	1,696	1,896	1,354
16. Pharmaceuticals, cosmetics	54	521	1,268	1,476	1,214
6. Optics	571	658	738	870	1,165
29. Consumer goods & equipment	728	765	1,244	1,199	1,117
8. Medical engineering	170	284	506	1,070	781
15. Biotechnology	18	109	224	797	662
14. Materials, metallurgy	450	673	929	1,010	656
2. Audiovisual technology	172	206	324	377	587
30. Civil engineering, building	461	495	793	763	584
22. Agricultural & food processing apparatus	418	398	636	560	506
25. Thermal procedures	402	542	542	450	414
21. Environment, pollution	87	173	367	406	379
9. Nuclear techniques	145	158	189	128	283
17. Agricultural & food products	168	359	407	502	269
28. Space technology, weapons	92	95	249	133	95

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.4
USPTO patents issued to Australian residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to Australian residents				
	1974	1982	1990	1998	2006
Total	661	1,299	1,734	2,931	4,504
19. Handling, printing	38	63	130	127	674
4. Information technology	3	6	21	57	637
7. Analysis, measurement, control	33	78	98	162	294
3. Telecommunications	7	14	44	64	250
2. Audiovisual technology	3	10	22	55	217
15. Biotechnology	0	4	13	220	176
30. Civil engineering, building	75	67	163	186	173
10. Organic fine chemicals	0	50	61	177	163
17. Agricultural & food products	20	20	73	56	159
29. Consumer goods & equipment	71	114	140	220	157
8. Medical engineering	11	9	69	157	148
1. Electrical components	25	98	54	112	139
26. Mechanical components	32	68	64	97	122
18. Technical procedures	37	61	123	191	119
16. Pharmaceuticals, cosmetics	5	43	49	137	111
20. Materials processing	42	95	51	83	100
5. Semiconductors	0	6	8	8	91
27. Transport	26	44	66	59	89
12. Basic materials chemistry	9	44	80	99	83
11. Macromolecular chemistry	19	74	20	79	83
6. Optics	42	12	32	38	78
13. Surface treatment	23	75	20	123	78
22. Agricultural & food processing apparatus	24	50	76	72	71
23. Machine-tools	24	76	50	94	69
14. Materials, metallurgy	25	21	59	59	68
24. Engines, pumps, turbines	22	21	52	63	66
21. Environment, pollution	2	7	29	46	39
25. Thermal procedures	16	43	40	59	35
9. Nuclear techniques	7	4	2	12	9
28. Space technology, weapons	20	22	25	19	6

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.5
USPTO patents issued to South Korean residents by OST technology subdomain, 1974-2006
 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to South Korean residents				
	1974	1982	1990	1998	2006
Total	0	39	835	10,950	19,926
5. Semiconductors	0	2	67	1,436	3,291
3. Telecommunications	0	5	66	982	2,882
4. Information technology	0	0	32	1,110	2,236
1. Electrical components	0	8	136	1,304	1,965
6. Optics	0	0	26	738	1,696
2. Audiovisual technology	0	2	55	940	1,503
7. Analysis, measurement, control	0	0	21	502	799
29. Consumer goods & equipment	0	11	35	521	576
11. Macromolecular chemistry	0	0	71	234	427
18. Technical procedures	0	0	25	236	415
13. Surface treatment	0	4	32	292	401
20. Materials processing	0	1	41	279	396
24. Engines, pumps, turbines	0	0	12	188	377
27. Transport	0	0	29	222	349
19. Handling, printing	0	1	26	259	330
25. Thermal procedures	0	0	35	269	259
10. Organic fine chemicals	0	0	16	182	250
23. Machine-tools	0	0	16	124	245
12. Basic materials chemistry	0	1	6	88	237
26. Mechanical components	0	0	30	307	235
14. Materials, metallurgy	0	1	13	176	205
15. Biotechnology	0	0	1	58	165
30. Civil engineering, building	0	0	15	118	145
16. Pharmaceuticals, cosmetics	0	1	7	69	132
8. Medical engineering	0	1	3	74	109
22. Agricultural & food processing apparatus	0	0	3	63	104
17. Agricultural & food products	0	0	2	100	86
9. Nuclear techniques	0	0	2	23	50
21. Environment, pollution	0	0	8	42	49
28. Space technology, weapons	0	1	4	14	12

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.6
USPTO patents issued to Taiwanese residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to Taiwanese residents				
	1974	1982	1990	1998	2006
Total	0	345	2,713	11,091	21,246
1. Electrical components	0	36	302	1,393	3,942
5. Semiconductors	0	0	30	1,761	3,413
29. Consumer goods & equipment	0	60	626	1,608	1,856
3. Telecommunications	0	0	45	444	1,635
4. Information technology	0	0	33	392	1,539
6. Optics	0	0	42	264	1,022
2. Audiovisual technology	0	7	51	313	959
7. Analysis, measurement, control	0	22	119	360	804
23. Machine-tools	0	13	130	266	767
27. Transport	0	14	198	480	637
30. Civil engineering, building	0	29	243	452	563
26. Mechanical components	0	17	217	510	514
24. Engines, pumps, turbines	0	37	44	169	481
20. Materials processing	0	8	62	441	478
19. Handling, printing	0	16	162	396	476
18. Technical procedures	0	24	94	333	364
13. Surface treatment	0	11	60	350	294
8. Medical engineering	0	7	56	160	238
22. Agricultural & food processing apparatus	0	1	36	140	208
25. Thermal procedures	0	10	37	173	189
11. Macromolecular chemistry	0	6	33	215	180
15. Biotechnology	0	0	5	38	154
10. Organic fine chemicals	0	2	8	62	137
12. Basic materials chemistry	0	2	16	87	103
16. Pharmaceuticals, cosmetics	0	1	0	40	82
14. Materials, metallurgy	0	9	16	110	73
17. Agricultural & food products	0	5	16	65	51
21. Environment, pollution	0	3	13	25	41
28. Space technology, weapons	0	3	17	25	23
9. Nuclear techniques	0	2	2	19	23

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.7
USPTO patents issued to Chinese residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to Chinese residents				
	1974	1982	1990	1998	2006
Total	14	0	131	448	2,597
1. Electrical components	5	0	11	28	443
4. Information technology	0	0	4	12	277
3. Telecommunications	1	0	4	15	236
29. Consumer goods & equipment	4	0	11	31	209
7. Analysis, measurement, control	0	0	5	11	136
18. Technical procedures	0	0	14	96	127
5. Semiconductor	0	0	3	12	105
11. Macromolecular chemistry	0	0	0	11	95
2. Audiovisual technology	0	0	1	10	94
12. Basic materials chemistry	0	0	3	29	82
23. Machine-tools	1	0	6	8	78
10. Organic fine chemicals	0	0	8	31	77
30. Civil engineering, building	1	0	3	9	75
15. Biotechnology	0	0	3	29	72
6. Optics	0	0	4	7	69
16. Pharmaceuticals, cosmetics	0	0	0	16	57
25. Thermal procedures	0	0	0	10	54
8. Medical engineering	0	0	9	6	39
27. Transport	0	0	1	4	39
14. Materials, metallurgy	0	0	10	23	29
13. Surface treatment	0	0	6	11	29
28. Space technology, weapons	0	0	0	1	28
24. Engines, pumps, turbines	0	0	14	0	28
19. Handling, printing	2	0	0	7	27
26. Mechanical components	0	0	11	2	22
20. Materials processing	0	0	0	11	20
17. Agricultural & food products	0	0	0	6	18
21. Environment, pollution	0	0	0	3	14
9. Nuclear techniques	0	0	0	5	12
22. Agricultural & food processing apparatus	0	0	0	4	6

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.8
USPTO patents issued to Brazilian residents by OST technology subdomain, 1974-2006 (selected years)

OST technology subdomain (1)	Patents issued by USPTO to Brazilian residents				
	1974	1982	1990	1998	2006
Total	59	125	163	364	429
29. Consumer goods & equipment	12	9	17	29	38
20. Materials processing	0	18	0	33	35
12. Basic materials chemistry	2	0	5	23	33
15. Biotechnology	0	0	1	3	27
24. Engines, pumps, turbines	0	0	18	4	27
26. Mechanical components	8	11	13	30	26
7. Analysis, measurement, control	3	0	1	12	22
16. Pharmaceuticals, cosmetics	0	0	1	6	22
23. Machine-tools	1	12	10	12	19
30. Civil engineering, building	0	1	8	10	17
4. Information technology	4	0	0	8	17
18. Technical procedures	3	12	4	21	15
17. Agricultural & food products	11	3	10	5	15
25. Thermal procedures	1	2	3	6	14
10. Organic fine chemicals	0	1	1	16	14
8. Medical engineering	3	2	7	15	11
27. Transport	7	1	1	7	11
22. Agricultural & food processing apparatus	0	17	5	9	10
1. Electrical components	2	9	13	33	9
19. Handling, printing	1	4	10	19	8
14. Materials, metallurgy	0	9	17	11	8
3. Telecommunications	0	1	0	8	7
11. Macromolecular chemistry	0	1	10	3	6
21. Environment, pollution	0	5	0	2	5
13. Surface treatment	0	7	5	30	5
2. Audiovisual technology	0	0	1	4	4
6. Optics	1	0	0	5	3
28. Space technology, weapons	0	0	2	0	1
5. Semiconductors	0	0	0	0	0
9. Nuclear techniques	0	0	0	0	0

Source: USPTO.

(1) Subdomains ranked by positions in 2006.

Detailed table 5.9
Individual and corporate patent applications filed with INPI by type of claim – Brazil, 1980-2005

Type of claim	Patent applications filed with INPI by first-named inventor's legal status									
	Individuals			Corporate entities			NA (1)			Total
	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)
	1980-2005									
Total	63,910	100.0	28,242	100.0	14,618	100.0	106,770	100.0		100.0
Invention Patents (Pis)	29,443	46.1	16,044	56.8	6,619	45.3	52,106	48.8		
Utility Models (MUs)	34,467	53.9	12,198	43.2	7,999	54.7	54,664	51.2		
	1980-1989									
Total	4,359	100.0	4,822	100.0	5,582	100.0	14,763	100.0		100.0
Invention Patents (Pis)	1,938	44.5	2,808	58.2	2,234	40.0	6,980	47.3		
Utility Models (MUs)	2,421	55.5	2,014	41.8	3,348	60.0	7,783	52.7		
	1990-1999									
Total	34,477	100.0	12,778	100.0	4,524	100.0	51,779	100.0		100.0
Invention Patents (Pis)	15,489	44.9	6,755	52.9	1,964	43.4	24,208	46.8		
Utility Models (MUs)	18,988	55.1	6,023	47.1	2,560	56.6	27,571	53.2		
	2000-2005									
Total	25,074	100.0	10,642	100.0	4,512	100.0	40,228	100.0		100.0
Invention Patents (Pis)	12,016	47.9	6,481	60.9	2,421	53.7	20,918	52.0		
Utility Models (MUs)	13,058	52.1	4,161	39.1	2,091	46.3	19,310	48.0		

Source: USPTO.

(1) No identification of resident first-named inventor's status.

Detailed table 5.10
Resident patent applications filed with INPI by type of claim and OST technology subdomain – Brazil, 1980-2005

OST technology subdomain	Resident patent applications filed with INPI by type of claim					
	Inventions Patents (Pis)			Utility Models (MUs)		
	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)
Total	52,106	100.0	54,664	100.0	106,770	100.0
29. Consumer goods & equipment	7,522	14.4	16,367	29.9	23,889	22.4
19. Handling, printing	3,751	7.2	6,675	12.2	10,426	9.8
30. Civil engineering, building	4,394	8.4	5,065	9.3	9,459	8.9
27. Transport	3,957	7.6	4,861	8.9	8,818	8.3
22. Agricultural & food processing apparatus	2,653	5.1	3,009	5.5	5,662	5.3
8. Medical engineering	2,668	5.1	2,781	5.1	5,449	5.1
7. Analysis, measurement, control	3,423	6.6	2,018	3.7	5,441	5.1
1. Electrical components	2,423	4.7	2,279	4.2	4,702	4.4
26. Mechanical components	2,142	4.1	2,096	3.8	4,238	4.0
2. Audiovisual technology	1,155	2.2	1,655	3.0	2,810	2.6
20. Materials processing	1,814	3.5	919	1.7	2,733	2.6
23. Machine-tools	1,537	2.9	1,155	2.1	2,692	2.5
18. Technical procedures	1,597	3.1	1,038	1.9	2,635	2.5
25. Thermal procedures	1,223	2.3	1,155	2.1	2,378	2.2
24. Engines, pumps, turbines	1,606	3.1	709	1.3	2,315	2.2

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Detailed table 5.10 (continued)
Resident patent applications filed with INPI by type of claim and OST technology subdomain – Brazil, 1980-2005

OST technology subdomain	Resident patent applications filed with INPI by type of claim							
	Inventions Patents (PIs)		Utility Models (MUs)		Total			
	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)
3. Telecommunications	1,233	2.4	709	1.3	1,942	1.8		
14. Materials, metallurgy	1,321	2.5	136	0.2	1,457	1.4		
16. Pharmaceuticals, cosmetics	1,370	2.6	34	0.1	1,404	1.3		
12. Basic materials chemistry	1,208	2.3	136	0.2	1,344	1.3		
17. Agricultural & food products	1,083	2.1	261	0.5	1,344	1.3		
4. Information technology	885	1.7	347	0.6	1,232	1.2		
21. Environment, pollution	617	1.2	192	0.4	809	0.8		
13. Surface treatment	580	1.1	206	0.4	786	0.7		
6. Optics	360	0.7	321	0.6	681	0.6		
11. Macromolecular chemistry	556	1.1	43	0.1	599	0.6		
28. Space technology, weapons	232	0.4	203	0.4	435	0.4		
15. Biotechnology	233	0.5	11	0.0	264	0.2		
10. Organic fine chemicals	73	0.1	-	-	73	0.1		
9. Nuclear techniques	56	0.1	16	0.0	72	0.1		
5. Semiconductors	42	0.1	12	0.0	54	0.1		
Unclassified	372	0.7	255	0.5	627	0.6		

Source: INPI.

Detailed table 5.11
USPTO patents issued to Brazilian residents by first-named inventor's state – Brazil, 1980-2006

First-named inventor's state (1)	USPTO patents issued to Brazilian residents							
	1980-2006		1980-1989		1990-1999		2000-2006	
	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)	No.	Share of total (%)
Brazil	1893	100.00	291	100.00	365	100.00	937	100.00
São Paulo	994	52.51	155	53.26	665	54.89	474	50.59
Rio de Janeiro	357	18.86	63	21.65	136	20.45	158	16.86
Rio Grande do Sul	194	10.25	30	10.31	39	5.86	125	13.34
Santa Catarina	143	7.55	6	2.06	60	9.02	77	8.22
Minas Gerais	67	3.54	14	4.81	18	2.71	35	3.74
Paraná	52	2.75	10	3.44	17	2.56	25	2.67
Federal District	15	0.79	0	0	3	0.45	12	1.28
Espírito Santo	14	0.74	2	0.69	4	0.60	8	0.85
Pernambuco	11	0.58	0	0	4	0.60	7	0.75
Bahia	10	0.53	2	0.69	4	0.60	4	0.43
Ceará	8	0.42	1	0.34	4	0.60	3	0.32
Goiás	7	0.37	0	0	5	0.75	2	0.21
NA (2)	3	0.16	3	1.03	0	0.00	0	0
Pará	3	0.16	0	0	0	0.00	3	0.32
Sergipe	3	0.16	1	0.34	1	0.15	1	0.11
Acre	2	0.11	1	0.34	1	0.15	0	0.00
Alagoas	2	0.11	1	0.34	0	0.00	1	0.11
Maranhão	2	0.11	0	0	1	0.15	1	0.11
Mato Grosso do Sul	2	0.11	1	0.34	0	0	1	0.11
Amazonas	1	0.05	0	0	1	0.15	0	0
Mato Grosso	1	0.05	1	0.34	0	0	0	0
Paraíba	1	0.05	0	0	1	0.15	0	0
Rio Grande do Norte	1	0.05	0	0	1	0.15	0	0

Source: USPTO.

(1) Ranked by state positions in period 1980-2006.

(2) No identification of state.

Detailed table 5.12
USPTO patents issued to Brazilian residents by OST technology subdomain – Brazil, 1980-2006

OST technology subdomain (1)	USPTO patents issued to Brazilian residents			
	1980-2006	1980-1989	1990-1999	2000-2006
Total	3,109	472	1,150	1,487
26. Mechanical components	227	31	104	92
12. Basic materials chemistry	190	27	55	108
29. Consumer goods & equipment	189	41	62	86
30. Civil engineering, building	165	26	78	61
24. Engines, pumps, turbines	159	17	75	67
8. Medical engineering	157	20	65	72
18. Technical procedures	156	14	70	72
27. Transport	148	24	52	72
10. Organic fine chemicals	145	16	33	96
1. Electrical components	141	23	59	59
19. Handling, printing	136	24	61	51
20. Materials processing	126	20	54	52
25. Thermal procedures	123	27	31	65
7. Analysis, measurement, control	119	13	40	66
23. Machine-tools	114	23	50	41
16. Pharmaceuticals, cosmetics	110	3	27	80
14. Materials, metallurgy	103	34	31	38
11. Macromolecular chemistry	81	11	29	41
15. Biotechnology	77	8	14	55
4. Information technology	73	4	20	49
13. Surface treatment	63	10	27	26
17. Agricultural & food products	60	5	13	42
22. Agricultural & food processing apparatus	53	15	14	24
6. Optics	51	4	23	24
3. Telecommunications	40	8	21	11
2. Audiovisual technology	36	8	13	15
21. Environment, pollution	33	8	13	12
28. Space technology, weapons	25	7	10	8
5. Semiconductors	9	1	6	2
9. Nuclear techniques	0	0	0	0

Source: USPTO.

(1) Subdomains ranked by positions in 1980-2006.

Detailed table 5.13
USPTO patents issued to São Paulo State residents by OST technology subdomain – 1980-2006

OST technology subdomain (1)	USPTO patents issued to São Paulo State residents			
	1980-2006	1980-1989	1990-1999	2000-2006
Total	1,542	255	587	700
26. Mechanical components	138	23	55	60
12. Basic materials chemistry	95	13	28	54
8. Medical engineering	93	12	35	46
27. Transport	86	13	32	41
19. Handling, printing	83	15	41	27
29. Consumer goods & equipment	79	25	30	24
20. Materials processing	79	10	34	35
23. Machine-tools	73	13	39	21
1. Electrical components	72	13	34	25
18. Technical procedures	68	12	28	28
10. Organic fine chemicals	67	6	14	47
16. Pharmaceuticals, cosmetics	61	1	16	44
7. Analysis, measurement, control	58	2	23	33
24. Engines, pumps, turbines	51	8	23	20
14. Materials, metallurgy	47	22	15	10
25. Thermal procedures	45	14	13	18
4. Information technology	44	0	14	30
11. Macromolecular chemistry	44	5	15	24
13. Surface treatment	43	7	19	17
22. Agricultural & food processing apparatus	37	11	12	14
6. Optics	36	1	18	17
30. Civil engineering, building	35	13	12	10
3. Telecommunications	27	2	18	7
17. Agricultural & food products	22	4	2	16
15. Biotechnology	21	3	2	16
2. Audiovisual technology	16	2	7	7
21. Environment, pollution	11	3	4	4
No corresponding OST technology subdomain	5	0	0	5
5. Semiconductors	4	1	3	0
28. Space technology, weapons	2	1	1	0
9. Nuclear techniques	0	0	0	0

Source: USPTO.

(1) Subdomains ranked by positions in 1980-2006.

Detailed table 5.14
USPTO patents issued to Brazilian residents by first-named inventor – 1980-2006

First-named inventor	USPTO patents issued to Brazilian residents			
	1980-2006	1980-1989	1990-1999	2000-2006
Total	1,071	166	389	516
Individuals	423	114	166	143
Petrobras	173	18	86	69
Empresa Brasileira de Compressores	97	2	46	49
Grendene S.A.	45	8	0	37
Johnson & Johnson Indústria & Comércio Ltda.	41	0	1	40
Multibrás S.A. Eletrodomésticos	39	0	4	35
Carrier Corporation	36	0	1	35
Metagal Indústria e Comércio Ltda.	36	0	24	12
Metal Leve S.A. Indústria e Comércio	29	8	19	2
Praxair Technology, Inc.	20	0	2	18
SMAR Research Corporation	18	0	3	15
Forjas Taurus S.A.	16	4	7	5
Companhia Vale do Rio Doce	15	0	5	10
Indústrias Romi S.A.	15	5	8	2
Dana Industrial S.A.	13	0	0	13
Fundação Oswaldo Cruz - Fiocruz	10	0	2	8
Kortec AG	10	5	5	0
Telecomunicações Brasileiras S.A. - Telebrás	9	2	5	2
Voith Paper Patent GmbH	9	0	0	9
Wahler Metalúrgica Ltda.	9	0	0	9
ELC Produtos de Segurança e Comércio Ltda.	8	0	5	3

Source: USPTO.

Detailed table 5.15
USPTO patents issued to São Paulo State residents by first-named inventor – 1980-2006

First-named inventor	USPTO patents issued to São Paulo State residents			
	1980-2006	1980-1989	1990-1999	2000-2006
Total	495	76	175	244
Individuals	238	58	96	84
Johnson & Johnson Indústria & Comércio Ltda.	41	0	1	40
MetaGal Indústria e Comércio Ltda.	36	0	24	12
Metal Leve S. A. Indústria e Comércio	29	8	19	2
SMAR Research Corporation	18	0	3	15
Indústrias Romi S.A.	15	5	8	2
Multibrás S.A. Eletrodomésticos	14	0	0	14
Dana Industrial S.A.	13	0	0	13
Voith Paper Patent GmbH	9	0	0	9
Wahler Metalúrgica Ltda.	9	0	0	9
Máquinas Agrícolas Jacto S.A.	8	0	2	6
Telecomunicações Brasileiras S.A. - Telebrás	8	2	4	2
Metalgráfica Rojek Ltda.	7	0	6	1
Praxair Technology, Inc.	7	0	2	5
U.S. Philips Corporation	7	3	3	1
Brasilata S.A. Embalagens Metálicas	6	0	1	5
FAPESP	6	0	0	6
Indústria e Comércio de Cosméticos Natura Ltda.	6	0	0	6
Meritor do Brasil Ltda.	6	0	0	6
Ross Operating Valve Company	6	0	0	6
The Whitaker Corporation	6	0	6	0

Source: USPTO.