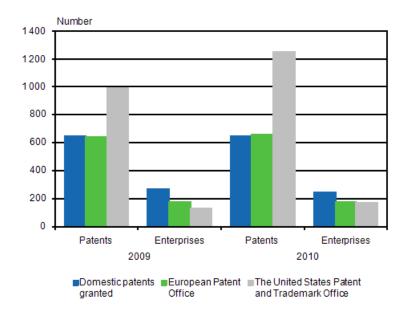


Patenting 2010

Annual number of patents applied in Finland fell further in 2010

The number of patent applications made in Finland decreased by around one hundred from the previous year in 2010. The number went down for both domestic and foreign applicants. By contrast, the number of patents granted in Finland to domestic patentees, similarly as the number of European patents granted to Finnish enterprises and associations, remained on level with the previous year. The number of U.S. patents granted to Finnish enterprises and associations grew by one quarter to about 1,250 patents. These data derive from statistics on patenting in 2010 published by Statistics Finland.

Patents granted to enterprises and associations and enterprises having received patents in 2009 and 2010



A total of 1,833 patent applications were filed in Finland in 2010. Of them, 1,731 were domestic applications. Due to increased international patenting the number of foreign applications made direct in Finland has been falling. The same development continued in 2010, when the applicant was from abroad in 102 of the patent applications filed in Finland. Good one quarter of all applications filed in Finland in 2010 concerned performing operations and transporting.

Domestic patenting by Finnish enterprises and associations fell short of the previous year's level in 2010. Enterprises and associations filed a total of 1,356 patent applications, as against 1,403 in 2009. Patent applications were most numerous in the metal and engineering industry where they totalled 470, filed by 128 applicant enterprises. In 2010 the number of patent applications in the manufacturing industries went down in all by six per cent from the previous year, while in the other industries the total number of applications was on level with the previous year.

Good one third, 37 per cent, of the domestic patent applications made in 2010 were filed by inventors resident in the region of Uusimaa. The respective share for the region of Pirkanmaa strengthened from the year before, being 12 per cent. One year earlier, the share of patent applications assigned to Pirkanmaa according to inventor data was nine per cent and the number of applications was 45 lower.

A total of 923 patents were granted in Finland in 2010, which was 132 patents fewer than one year earlier. The total number was influenced by the decrease in the number of patents granted to foreign patent holders, whereas the number of patents granted to domestic patent holders rose by a few patents. The number of patents granted to domestic enterprises and associations was 648, which was on level with the previous year. The highest number of patents was granted to the metal and engineering industry and, as in previous years, the most common IPC sections in which domestic patents were granted to Finnish enterprises were performing operations and transporting.

European patents granted by the European Patent Office (EPO) to Finnish enterprises or associations totalled 657 in 2010. One year previously, the number of patents granted was 642. Around one half of the European patents were granted to the electronics industry, while the metal and engineering industry was the second biggest grantee of European patents in Finland.

In 2010, the number of patents granted by the United States Patent and Trademark Office (USPTO) to Finnish enterprises and associations went up by good one quarter – by 261 patents – from the previous year. The number of patents granted was 1,251. Of them, 887 were patents for the electronics industry. As European patents, the second biggest grantee of a patent was the metal and engineering industry, to which the United States Patent and Trademark Office granted a total of 135 patents in 2010.

In 2010, a total of 4,644 European patents were validated in Finland, whereas in 2009 the respective number was 4,497. The biggest main sections of the European patents were chemistry and metallurgy and human necessities. Germany and the United States were still the main holder countries of the European patens validated in Finland.

A total of 559 utility design applications were made in Finland in 2010, while one year before 479 applications were recorded. Of the utility design applications, 94 per cent were made by domestic applicants, and around one half of them by private persons. According to the patent classification, utility design applications in relative terms concerned most often the main sections of human necessities, fixed constructions, performing operations and transporting. As with domestic patent applications, the majority of the utility design applications were made by the metal and engineering industry.

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Appendix tables

Appendix table 1. Patent applications filed in Finland, 1985, 1990, 1995 and 2000–2010

Year	Private assignee	Enterprise/ association	Domestic applications total	Foreign applications	Applications total
1985	681	1038	1719	3480	5199
1990	708	1360	2068	4414	6482
1995	731	1393	2124	4240	6364
2000	695	1883	2575	338	2913
2001	627	1764	2391	277	2668
2002	550	1606	2156	216	2372
2001	467	1506	1973	214	2187
2004	443	1567	2010	215	2225
2005	464	1371	1835	226	2061
2006	419	1394	1813	205	2018
2007	452	1349	1801	211	2012
2008	401	1397	1798	148	1946
2009	401	1403	1804	127	1931
2010	375	1356	1731	102	1833

Appendix table 2. Domestic patent applications by region, 2005–2010

Region	Year					
	2005	2006	2007	2008	2009	2010
	Applications total					
Regions Total	1828	1813	1801	1798	1804	1731
Uusimaa	714	662	716	719	701	643
Itä-Uusimaa	32	14	34	16	26	24
Varsinais-Suomi	139	137	145	122	150	107
Satakunta	57	46	38	41	45	48
Kanta-Häme	49	39	35	35	54	32
Pirkanmaa	179	174	189	196	162	207
Päijät-Häme	51	68	59	64	63	56
Kymenlaakso	40	42	44	32	23	32
South Karelia	29	31	29	35	30	33
Etelä-Savo	34	35	34	42	43	35
Pohjois-Savo	84	77	70	63	85	83
North Karelia	45	49	34	31	40	37
Central Finland	120	154	110	107	111	115
South Ostrobothnia	21	24	23	25	16	28
Ostrobothnia	61	47	61	63	56	52
Central Ostrobothnia	4	8	5	11	8	8
North Ostrobothnia	137	110	106	95	95	109
Kainuu	13	12	7	13	16	14
Lappi	18	12	15	16	13	19
Åland	5	5	1	1	1	2
Unknown / Foreign countries	1	70	50	71	67	47

Appendix table 3. Domestic patent applications of enterprises and associations by industry (TOL 2008), 2009 and 2010 $\,$

Industry	2009		2010		
	Applications	Number of enterprises	Applications	Number of enterprises	
Total	1403	532	1356	544	
C Manufacturing, total	834	267	786	273	
10-12 Food industry	21	8	3	3	
13-15 Textile, clothing, leather and footwear industry	1	1	3	3	
16-17 Wood and paper industry	74	19	74	18	
19-22 Chemical industry	65	31	55	26	
24-25, 28-30 Metal and engineering industry	510	129	470	128	
26-27 Electrical and electronics industry	108	48	128	61	
Other manufacturing	55	31	53	34	
D,E Electricity, gas and water supply	2	2	6	5	
F Construction	25	20	35	24	
G Wholesale and retail trade	68	50	53	41	
J Information and communication	56	38	56	33	
72 Scientific research and development	155	22	132	23	
M Professional, scientific and technical activities (excl. 72)	156	86	178	99	
Other industries	107	47	110	46	

Appendix table 4. Patents granted in Finland by IPC section, 2010

IPC section	Total	Finnish assignees total	Finnish private assignees	Finnish enterprises and associations
Total of patents granted	923	718	70	648
A: Human necessities	115	87	20	67
B: Performing operations, transporting	221	199	11	188
C: Chemistry, metallurgy	129	58	5	53
D: Textiles, paper	118	98	1	97
E: Fixed constructions	57	54	13	41
F: Mechanical engineering	89	79	10	69
G: Physics	73	61	7	54
H: Electricity	121	82	3	79

Appendix table 5. Domestic patents granted to enterprises and associations by industry (TOL 2008), 2009 and 2010 $\,$

Industry			2010		
	Patents	Number of enterprises	Patents	Number of enterprises	
Total	647	269	648	245	
C Manufacturing, total	473	163	464	136	
10-12 Food industry	6	4	11	5	
13-15 Textile, clothing, leather and footwear industry	5	3	4	3	
16-17 Wood and paper industry	23	12	16	8	
19-22 Chemical industry	41	25	28	14	
24-25, 28-30 Metal and engineering industry	288	72	330	69	
26-27 Electrical and electronics industry	96	37	60	25	
Other manufacturing	14	10	15	12	
D,E Electricity, gas and water supply	2	2	1	1	
F Construction	10	8	8	7	
G Wholesale and retail trade	33	19	21	16	
J Information and communication	34	24	27	18	
72 Scientific research and development	23	10	36	17	
M Professional, scientific and technical activities (excl. 72)	54	31	65	31	
Other industries	18	12	26	19	

Appendix table 6. European patents validated in Finland by IPC-section and resident country of assignee, 2010

Resident country of assignee		A: Human necessities	B:Performing operations, transporting	C: Chemistry, metallurgy	D: Textiles, paper	E: Fixed constructions	F: Mechanical engineering	G:Physics	H:Electricity
Total of countries	4644	962	706	1196	184	165	242	433	756
Finland	132	17	32	16	9	9	5	16	28
United States	1062	239	84	297	31	13	37	116	245
Germany	969	149	206	200	87	55	85	82	105
Switzerland	351	116	69	108	2	4	16	23	13
France	308	53	51	111	3	5	19	31	35
Japan	262	31	34	66	12	1	9	29	80
Great Britain	207	50	26	78		5	6	23	19
Italy	203	53	55	52	4	9	7	6	17
Sweden	186	32	28	33	15	23	16	12	27
Netherlands	130	35	19	34	5	4	4	17	12
Belgium	97	17	11	41	2	7	7	8	4
Denmark	95	25	7	38	2	3	6	6	8
Republic of Korea	93	3	1	6				21	62
Austria	87	18	32	11	5	8	5	4	4
Canada	58	9	4	8		1	3	7	26
Total of other countries	404	115	47	97	7	18	17	32	71

Appendix table 7. Patents granted to Finnish enterprises and associations by European Patent Office by industry (TOL 2008), 2009 and 2010

Industry	European Pate	ent Office 2009	European Patent Office 2010		
	Patents	Number of enterprises	Patents	Number of enterprises	
Total	642	175	657	178	
C Manufacturing, total	518	120	516	112	
10-12 Food industry	4	3	6	4	
13-15 Textile, clothing, leather and footwear industry					
16-17 Wood and paper industry	7	5	8	6	
19-22 Chemical industry	28	17	23	14	
24-25, 28-30 Metal and engineering industry	130	53	136	47	
26-27 Electrical and electronics industry	324	27	328	29	
Other manufacturing	25	15	15	12	
D,E Electricity, gas and water supply	1	1	2	2	
F Construction	2	2	2	2	
G Wholesale and retail trade	6	5	6	6	
J Information and communication	20	13	17	12	
72 Scientific research and development	20	10	28	20	
M Professional, scientific and technical activities (excl. 72)	25	17	25	16	
Other industries	50	7	61	8	

Appendix table 8. Patents granted to finnish enterprises by US Patent and Trademark Office by industry (TOL 2008), 2009 and 2010

Industry	US Patent and T 2009	rademark Office	US Patent and Trademark Office 2010		
	Patents	Number of enterprises	Patents	Number of enterprises	
Total	990	134	1251	174	
C Manufacturing, total	887	83	1092	112	
10-12 Food industry			5	2	
13-15 Textile, clothing, leather and footwear industry	2	2	2	1	
16-17 Wood and paper industry	3	3	9	4	
19-22 Chemical industry	25	10	42	19	
24-25, 28-30 Metal and engineering industry	125	33	135	38	
26-27 Electrical and electronics industry	723	29	887	39	
Other manufacturing	9	6	12	9	
D,E Electricity, gas and water supply	1	1			
F Construction					
G Wholesale and retail trade	5	3	8	5	
J Information and communication	15	12	24	17	
72 Scientific research and development	21	15	40	17	
M Professional, scientific and technical activities (excl. 72)	37	13	55	17	
Other industries	24	7	32	6	

Appendix table 9. Utility model applications filed in Finland by IPC section, 2010

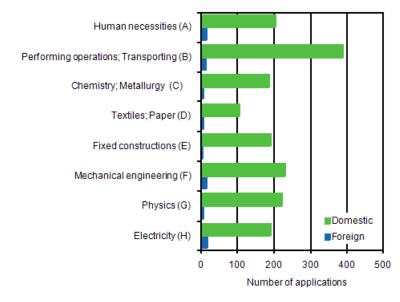
IPC section	Domestic applica	tions	Foreign	Applications total	
	Private assignee	Enterprise/association	Total	applications	
Total	262	266	528	31	559
A: Human necessities	54	40	94	9	103
B: Performing operations, transporting	34	54	88	3	91
C: Chemistry, metallurgy	5	4	9	2	11
D: Textiles, paper	3	14	17	2	19
E: Fixed constructions	40	58	98	5	103
F: Mechanical engineering	32	20	52	3	55
G: Physics	13	13	26	3	29
H: Electricity	4	26	30	4	34
Unknown	77	37	114		114

Appendix table 10. Domestic utility model applications of enterprises and associations by industry (TOL 2008), 2009 and 2010 $\,$

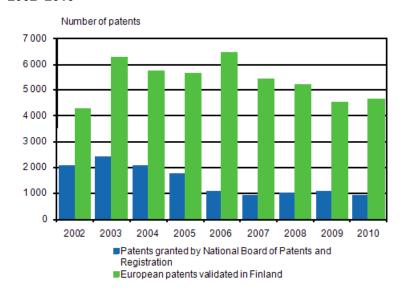
Industry	2009		2010		
	Applications	Number of enterprises	Applications	Number of enterprises	
Total	260	174	266	176	
C Manufacturing, total	176	103	159	91	
10-12 Food industry	1	1			
13-15 Textile, clothing, leather and footwear industry	2	2	4	4	
16-17 Wood and paper industry	13	12	13	9	
19-22 Chemical industry	16	12	16	11	
24-25, 28-30 Metal and engineering industry	94	49	78	43	
26-27 Electrical and electronics industry	22	8	23	8	
Other manufacturing	28	19	25	16	
D,E Electricity, gas and water supply			1	1	
F Construction	17	14	14	10	
G Wholesale and retail trade	21	20	33	27	
J Information and communication	5	5	5	5	
72 Scientific research and development			4	3	
M Professional, scientific and technical activities (excl. 72)	31	23	34	24	
Other industries	10	9	16	15	

Appendix figures

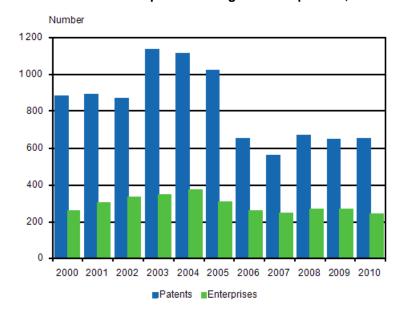
Appendix figure 1. Patent applications filed in Finland by IPC section, 2010



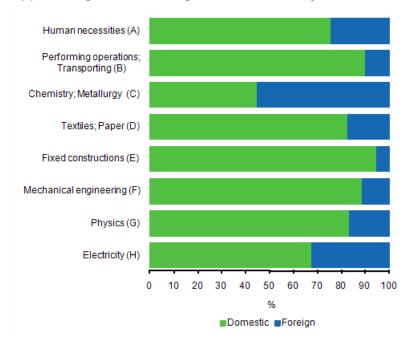
Appendix figure 2. Patents granted and validated in Finland, 2002–2010



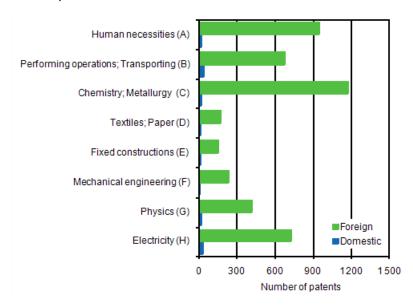
Appendix figure 3. Domestic patents granted to enterprises and associations and enterprises having received patents, 2000–2010



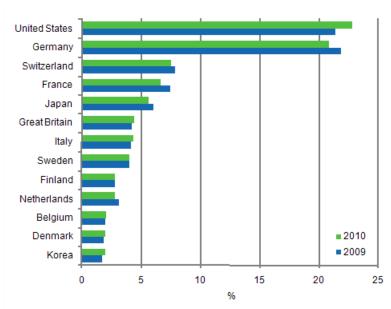
Appendix figure 4. Patents granted in Finland by IPC section, 2010

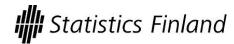


Appendix figure 5. European patents validated in Finland by IPC section, 2010



Appendix figure 6. Selected countries shares of European patents validated in Finland, 2009 and 2010





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Source: Patenting 2010. Statistics Finland