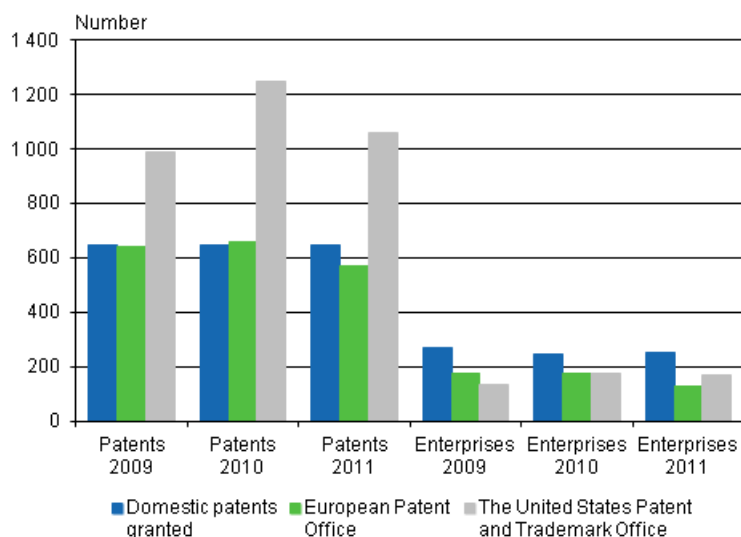


# Patenting 2011

## Fewer European patents granted to manufacturing industry in 2011 than in previous years

The number of European patents granted to domestic manufacturing enterprises fell by 14 per cent from the previous year in 2011. A total of 573 European patents were granted to enterprises and associations in 2011 while the respective number in 2010 was 657. The number of enterprises having received patents was also lower than in the previous year. These data derive from statistics on patenting in 2011 published by Statistics Finland.

### Patents granted to enterprises and associations and enterprises having received patents in 2009–2011



Like European patents, the number of patents granted by the United States Patent and Trademark Office (USPTO) to Finnish enterprises and associations also fell from the previous year in 2011. The total number of granted patents decreased by 191 because fewer patents were granted to the electronics industry.

The number of domestic patents granted to enterprises and associations remained on level with the previous year. Altogether 647 patents were granted to 250 enterprises in 2011.

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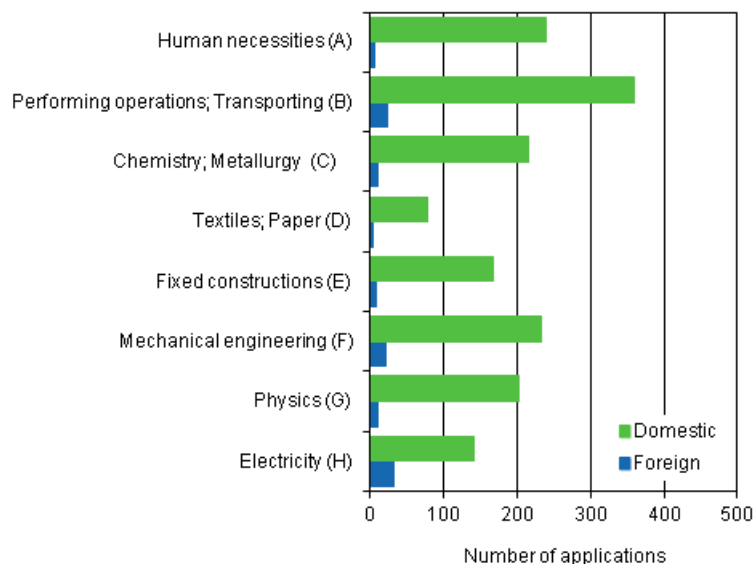
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## Patenting 2011

A total of 1,774 patent applications were filed in Finland in 2011, which was 59 applications fewer than in the year before. The vast majority, or 1,646, of the applications were filed by domestic applicants. Private persons filed 385 of the total number of domestic applications.

**Figure 1. Patent applications filed in Finland by IPC section, 2011**



The annual number of patent applications filed by Finnish enterprises and associations decreased further in 2011 when they numbered 1,261. This was nearly one hundred applications fewer than in 2010. Patent applications were most numerous in the metal and engineering industry: 455 applications by 114 enterprises.

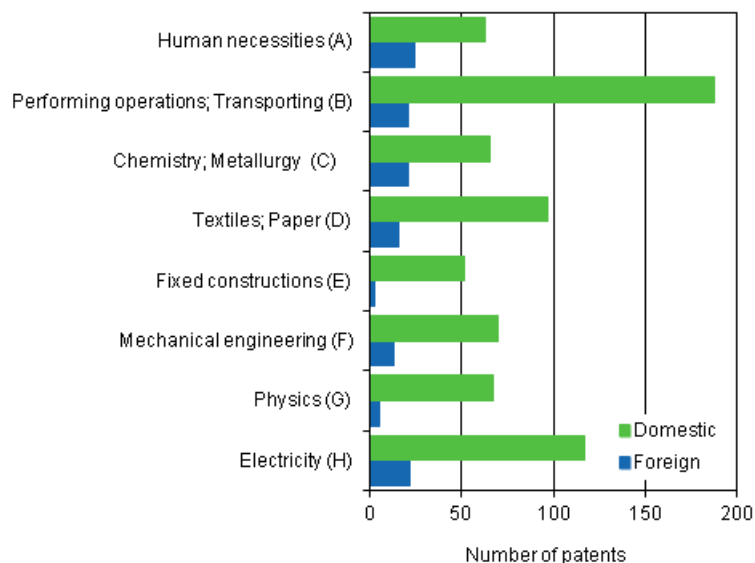
Thirty-seven per cent of the domestic patent applications made in 2011 were filed by inventors resident in the region of Uusimaa. Based on the information on inventors in the applications, the next regions were Pirkanmaa and Varsinais-Suomi with their respective shares of ten and seven per cent.

A total of 846 patents were granted in Finland in 2011 while the respective number in 2010 was 923. The number of patents received by domestic patent holders remained on level with the previous year in 2011. By contrast, the number of patents granted to foreign patent holders fell by almost 40 per cent and was 127.

The majority, or 647, of the patents granted in Finland were granted to domestic enterprises and associations. The number of patents granted to enterprises and associations was on level with 2010. As in previous years, the highest number of patents was granted to the metal and engineering industry.

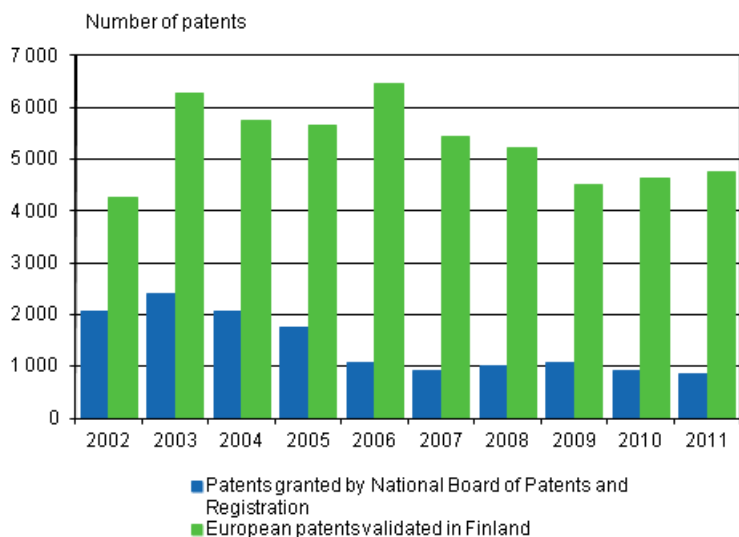
The patents granted in Finland most commonly concerned the main IPC sections of performing operations and transporting, and electricity.

**Figure 2. Patents granted in Finland by IPC section, 2011**

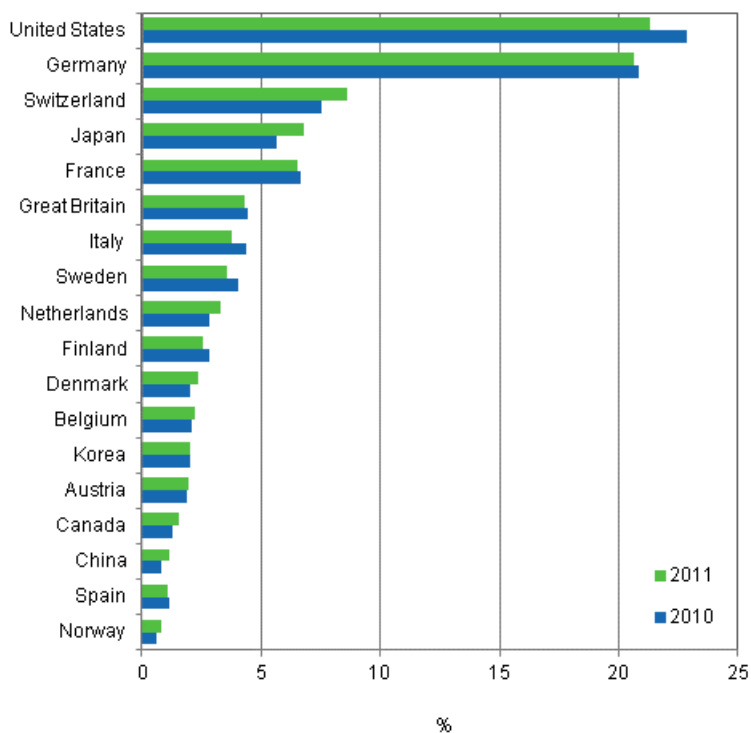


In 2011, European patents that came into effect in Finland numbered 4,762. One year earlier, the number was slightly lower at 4,644. The main IPC sections for the European patents were again chemistry and metallurgy with 1,289 patents and human necessities with 968 patents. As in previous years, the main holder countries of the validated patents were the United States and Germany.

**Figure 3. Patents granted and validated in Finland, 2002–2011**



**Figure 4. Selected countries shares of European patents validated in Finland, 2010 and 2011**



European patents granted by the European Patents Office (EPO) to Finnish enterprises or associations totalled 573 in 2011. Their number fell by 13 per cent from the previous year. In the electronics and metal and engineering industries where the highest numbers of patent application are made the number of new patents fell by 15 per cent in all. Despite the reduced number of patents granted to the electronics industry, one-half of the granted European patents were still granted to enterprises in this industry.

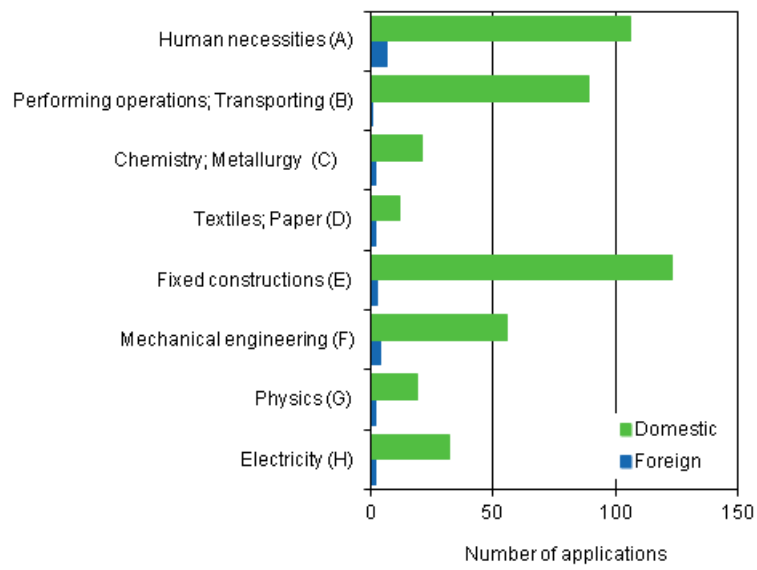
Altogether 131 enterprises or associations received European patents in 2011, while the respective number in 2010 was 178.

The United States Patent and Trademark Office (USPTO) granted 1,060 patents to Finnish enterprises or associations in 2011. This was 191 patents fewer than in the previous year when the number of granted patents was 1,251. This was influenced by a reduction of some two hundred in patents granted to the electronics industry. The number of enterprises having been granted patents by the United States Patent and Trademark Office remained on level with 2010 in 2011 - patents were granted to 170 enterprises or associations.

A total of 481 utility model applications were made in Finland in 2011, while one year earlier they numbered 559. Of the utility model applications made in 2011, 458 were made by domestic applicants and 40 per cent of these, or 182, by private persons. The number of utility model applications made by private persons fell by 80 from the previous year while the number of applications made by enterprises remained on level with the previous year at 276.

The utility design applications concerned most often the main IPC sections of fixed constructions and human necessities. The industry that made the highest number of utility model applications was the metal and engineering industry.

**Figure 5. Utility model applications filed in Finland by IPC section, 2011**



## Appendix tables

**Appendix table 1. Patent applications filed in Finland, 1985, 1990, 1995, 2000 and 2005–2011**

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
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
2011	385	1261	1646	128	1774

**Appendix table 2. Domestic patent applications by region, 2007–2011**

Region	Year				
	2007	2008	2009	2010	2011
	Applications total	Applications total	Applications total	Applications total	Applications total
Regions Total	1801	1798	1804	1731	1646
Uusimaa	716	719	701	643	602
Itä-Uusimaa <sup>1)</sup>	34	16	26	24	
Varsinais-Suomi	145	122	150	107	123
Satakunta	38	41	45	48	43
Kanta-Häme	35	35	54	32	62
Pirkanmaa	189	196	162	207	168
Päijät-Häme	59	64	63	56	41
Kymenlaakso	44	32	23	32	23
South Karelia	29	35	30	33	43
Etelä-Savo	34	42	43	35	59
Pohjois-Savo	70	63	85	83	65
North Karelia	34	31	40	37	38
Central Finland	110	107	111	115	81
South Ostrobothnia	23	25	16	28	23
Ostrobothnia	61	63	56	52	69
Central Ostrobothnia	5	11	8	8	5
North Ostrobothnia	106	95	95	109	101
Kainuu	7	13	16	14	14
Lappi	15	16	13	19	19
Åland	1	1	1	2	2
Unknown / Foreign countries	50	71	67	47	65

1) Was included in the Uusimaa region 1.1.2011

**Appendix table 3. Domestic patent applications and domestic patents granted to enterprises and associations by industry (TOL 2008), 2011**

Industry	Domestic applications 2011		Domestic patents 2011	
	Applications	Number of enterprises	Patents	Number of enterprises
Total	1261	508	647	250
C Manufacturing, total	767	245	442	144
10-12 Food industry	14	7	8	4
13-15 Textile, clothing, leather and footwear industry	7	5		
16-17 Wood and paper industry	95	13	29	9
19-22 Chemical industry	62	29	17	12
24-25, 28-30 Metal and engineering industry	455	114	296	77
26-27 Electrical and electronics industry	90	46	66	28
Other manufacturing	44	31	26	14
D, E Electricity, gas and water supply	9	6		
F Construction	38	28	8	7
G Wholesale and retail trade	51	39	21	17
J Information and communication	67	41	33	23
72 Scientific research and development	110	24	39	12
M Professional, scientific and technical activities (excl. 72)	122	76	73	31
Other industries	97	49	31	16

**Appendix table 4. European patents validated in Finland by IPC-section and resident country of assignee, 2011**

Resident country of assignee	Total of patents	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	4762	968	752	1289	218	145	246	378	766
Finland	122	12	32	17	13	5	9	12	22
United States	1016	256	67	305	37	6	31	112	202
Germany	983	122	257	193	102	47	88	54	120
Switzerland	409	139	62	145	3	6	13	22	19
France	324	59	30	92	8	2	4	35	94
Japan	311	69	46	103	9	8	14	35	27
Great Britain	205	44	35	68	4	5	11	18	20
Italy	179	36	44	53	5	8	9	9	15
Sweden	170	35	31	22	12	5	16	14	35
Netherlands	157	30	36	45	8	10	3	11	14
Belgium	113	19	15	53		3	11	5	7
Denmark	105	25	11	47	1	10	8	1	2
Republic of Korea	96	4	4	8				9	71
Austria	96	7	29	14	8	15	8	3	9
Canada	73	9	12	13				9	30
China	55	2	4	5				1	43
Spain	50	17	8	18		2	1	4	
Norway	40	8	5	7		2	7	7	4
Total of other countries	261	75	24	81	8	11	13	17	32



**Appendix table 5. Patents granted to Finnish enterprises and associations by European Patent Office and US Patent and Trademark Office by industry (TOL 2008), 2011**

Industry	European Patent Office 2011		US Patent and Trademark Office 2011	
	Patents	Number of enterprises	Patents	Number of enterprises
Total	573	131	1060	170
C Manufacturing, total	442	85	890	93
10-12 Food industry	4	4		
13-15 Textile, clothing, leather and footwear industry	1	1	3	2
16-17 Wood and paper industry	9	3	9	4
19-22 Chemical industry	25	13	49	22
24-25, 28-30 Metal and engineering industry	110	34	135	31
26-27 Electrical and electronics industry	284	24	685	28
Other manufacturing	9	6	9	6
D, E Electricity, gas and water supply			2	2
F Construction	3	3		
G Wholesale and retail trade	3	3	12	7
J Information and communication	13	10	36	24
72 Scientific research and development	27	13	42	15
M Professional, scientific and technical activities (excl. 72)	31	13	48	20
Other industries	54	4	30	9

**Appendix table 6. Domestic utility model applications of enterprises and associations by industry (TOL 2008), 2010 and 2011**

Industry	2010		2011	
	Domestic applications	Number of enterprises	Domestic applications	Number of enterprises
Total	266	176	276	203
C Manufacturing, total	159	91	163	112
10-12 Food industry			1	1
13-15 Textile, clothing, leather and footwear industry	4	4	2	2
16-17 Wood and paper industry	13	9	21	16
19-22 Chemical industry	16	11	17	15
24-25, 28-30 Metal and engineering industry	78	43	82	55
26-27 Electrical and electronics industry	23	8	26	9
Other manufacturing	25	16	14	14
D, E Electricity, gas and water supply	1	1	1	1
F Construction	14	10	19	15
G Wholesale and retail trade	33	27	32	29
J Information and communication	5	5	4	4
72 Scientific research and development	4	3	4	3
M Professional, scientific and technical activities (excl. 72)	34	24	37	24
Other industries	16	15	16	15

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Finlands officiella statistik  
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Source: Patenting 2011. Statistics Finland