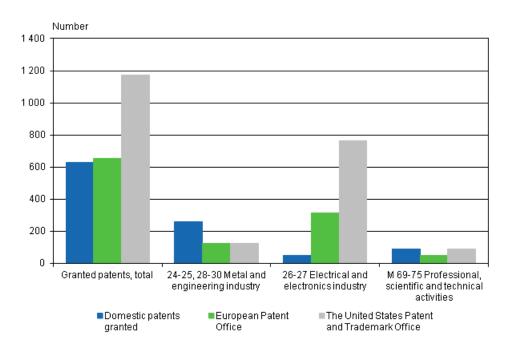


Patenting 2012

Most international patents for the electronics industry in 2012

According to Statistics Finland, the US Patent and Trademark Office (USPTO) and the European Patent Office (EPO) granted a total of 1,833 patents to Finnish enterprises and associations in 2012 of which over one-half were directed at the electronics industry. The industry that received the second most patents was the metal industry.

Patents granted to enterprises and associations in certain industries in 2012



A total of 631 patents were granted in Finland to domestic enterprises and associations in 2012, which is almost the same number as in the previous year (647 patents). Most patents were granted to the branches of the metal industry, which received 260 patents.

In 2012, the number of domestic patent more than in 2011 (1,261 applications). at the 2011 level in 2012 and was 271.	t applications made by enterprises amounted to 1,290, which was. The number of utility design applications of enterprises remained

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Patenting 2012

The number of patents applied for in Finland in 2012 increased from the year before. A total of 1,825 patent applications were made, of which the number of domestic applications grew, while the number of foreign applications remained unchanged.

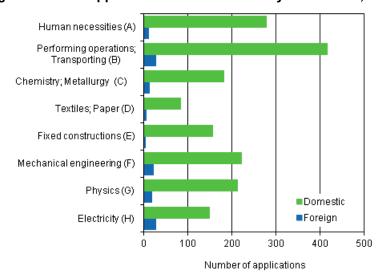


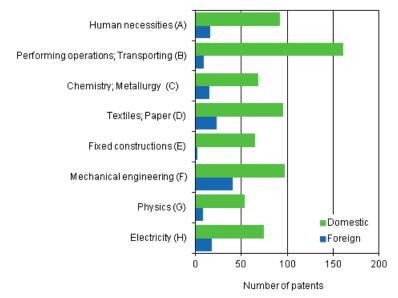
Figure 1. Patent applications filed in Finland by IPC section, 2012

The number of patent applications made by both Finnish enterprises and private persons increased from the previous year in 2012. Most applications on behalf of enterprises and associations were filed in the metal and engineering industry, 365 applications by 118 enterprises. A majority of domestic patent applications were filed in Uusimaa with a 37 per cent share.

In 2012, a total of 835 patents were granted in Finland to domestic and foreign applicants. The number of granted patents decreased only slightly from 2011 (846). A majority of the granted patents, 704, were granted to Finnish enterprises and private persons. In all, 131 patents were granted abroad, of which more than one-half were directed at the United States and Germany.

In 2012, fewer patents were granted to enterprises in Finland than in the year before, 631. Just like in 2011, most patents were granted to the metal industry. A majority of the patents granted in Finland were directed at performing operations and transporting, while most foreign patents were granted to the section of mechanical engineering.

Figure 2. Patents granted in Finland by IPC section, 2012



In 2012, European patents that came into effect in Finland numbered 5,252, of which most were granted in the sections of chemistry and metallurgy, as well as human necessities. The main holder countries of European patents were the United States, Germany and Switzerland.

Figure 3. Patents granted and validated in Finland, 2002–2012

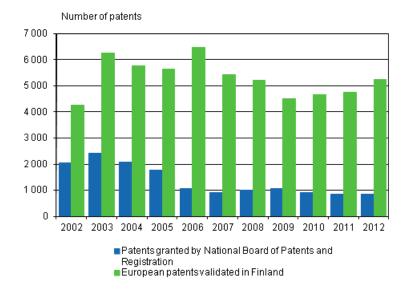
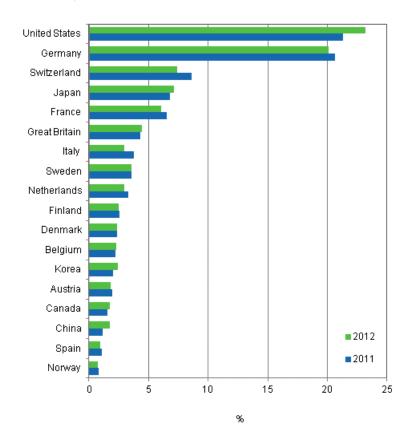


Figure 4. Selected countries shares of European patents validated in Finland, 2011 and 2012



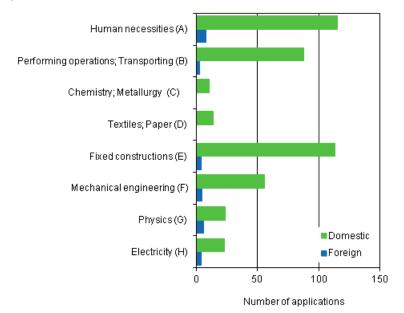
Finnish enterprises or associations received 656 patents through the European Patents Office (EPO), while the number of granted patents grew by close on one hundred compared to the previous year. Patents were granted to 173 different enterprises or associations and the number of enterprises grew by 32 per cent from 2011.

The United States Patent and Trademark Office (USPTO) also granted more patents to Finnish enterprises and associations in 2012 than in 2011, a total of 1,177. The number of enterprises that received patents grew by some 20 per cent from 2011, to 205. Most patents were granted to activities in the metal industry and electronics industry.

A total of 474 utility design applications were made in 2012, of which 444 applications were made by Finnish applicants. Most utility design applications were made in the sections of fixed constructions and human necessities. The industry that made the highest number of utility design applications was the metal industry.

The utility design applications made by enterprises remained at the 2011 level with 271 applications. There was no major change in utility design applications made by private persons either, as the number amounted to 173 in 2012.

Figure 5. Utility model applications filed in Finland by IPC section, 2012



Appendix tables

Appendix table 1. Patent applications filed in Finland, 1985, 1990, 1995, 2000 and 2005–2012

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
2012	407	1290	1697	128	1825

Appendix table 2. Domestic patent applications by region, 2008–2012

Region	Year							
	2008	2009	2010	2011	2012			
	Applications total							
Regions Total	1798	1804	1731	1646	1697			
Uusimaa	719	701	643	602	632			
Itä-Uusimaa ¹⁾	16	26	24					
Varsinais-Suomi	122	150	107	123	136			
Satakunta	41	45	48	43	51			
Kanta-Häme	35	54	32	62	42			
Pirkanmaa	196	162	207	168	168			
Päijät-Häme	64	63	56	41	41			
Kymenlaakso	32	23	32	23	23			
South Karelia	35	30	33	43	46			
Etelä-Savo	42	43	35	59	71			
Pohjois-Savo	63	85	83	65	57			
North Karelia	31	40	37	38	45			
Central Finland	107	111	115	81	86			
South Ostrobothnia	25	16	28	23	29			
Ostrobothnia	63	56	52	69	82			
Central Ostrobothnia	11	8	8	5	10			
North Ostrobothnia	95	95	109	101	93			
Kainuu	13	16	14	14	9			
Lappi	16	13	19	19	23			
Åland	1	1	2	2				
Unknown / Foreign countries	71	67	47	65	53			

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), 2012

Industry	Domestic app	lications 2012	Domestic patents 2012		
	Applications	Number of enterprises	Patents	Number of enterprises	
Total	1290	519	631	267	
C Manufacturing, total	721	245	412	145	
10-12 Food industry	13	6	11	3	
13-15 Textile, clothing, leather and footwear industry	10	4	2	1	
16-17 Wood and paper industry	105	13	31	6	
19-22 Chemical industry	58	25	31	17	
24-25, 28-30 Metal and engineering industry	365	118	260	78	
26-27 Electrical and electronics industry	121	53	52	23	
Other manufacturing	49	26	25	17	
D, E Electricity, gas and water supply	7	5	1	1	
F Construction	105	31	49	14	
G Wholesale and retail trade	56	47	25	21	
J Information and communication	88	46	20	14	
72 Scientific research and development	74	21	24	9	
M Professional, scientific and technical activities (excl. 72)	151	77	67	41	
Other industries	88	47	33	22	

Appendix table 4. European patents validated in Finland by IPC-section and resident country of assignee, 2012

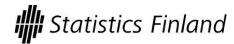
Resident country of assignee		A: Human necessities	B:Performing operations, transporting	C: Chemistry, metallurgy	D: Textiles, paper	E: Fixed constructions	F: Mechanical engineering	G:Physics	H:Electricity
Total of countries	5252	1096	835	1293	227	161	274	467	899
Finland	131	11	32	16	14	3	10	19	26
United States	1216	303	109	371	51	11	35	129	207
Germany	1055	143	275	226	77	51	92	86	105
Switzerland	389	135	54	106	3	7	23	34	27
Japan	375	52	51	96	17		7	28	124
France	316	50	51	94	7	7	17	34	56
Great Britain	234	62	42	59	5	7	12	24	23
Sweden	186	37	31	21	13	15	18	15	36
Italy	156	52	34	29	7	12	8	8	6
Netherlands	155	33	26	36	12	4	6	16	22
Republic of Korea	127	7	5	8		1		6	100
Denmark	122	35	14	41		12	3	91	8
Belgium	120	33	13	47	2	4	8	9	4
Austria	95	9	31	12	9	12	8	6	8
Canada	91	8	7	17	4	3	3	13	36
China	91	6	5	9	1	3	1	4	62
Spain	50	14	7	19	1	1	4	2	2
Norway	40	13	9	3		2	3	5	5
Total of other countries	303	93	39	83	4	6	16	20	42

Appendix table 5. Patents granted to Finnish enterprises and associations by European Patent Office and US Patent and Trademark Office by industry (TOL 2008), 2012

Industry	European Pate	ent Office 2012	US Patent and Trademark Office 2012		
	Patents	Number of enterprises	Patents	Number of enterprises	
Total	656	173	1177	205	
C Manufacturing, total	512	116	963	113	
10-12 Food industry	5	3	4	4	
13-15 Textile, clothing, leather and footwear industry	2	2	2	2	
16-17 Wood and paper industry	17	8	14	5	
19-22 Chemical industry	32	18	43	21	
24-25, 28-30 Metal and engineering industry	126	51	125	36	
26-27 Electrical and electronics industry	313	26	762	36	
Other manufacturing	17	8	13	9	
D, E Electricity, gas and water supply			3	2	
F Construction	37	2	34	3	
G Wholesale and retail trade	10	8	10	9	
J Information and communication	16	11	37	27	
72 Scientific research and development	15	7	38	14	
M Professional, scientific and technical activities (excl. 72)	26	16	53	28	
Other industries	40	13	39	9	

Appendix table 6. Domestic utility model applications of enterprises and associations by industry (TOL 2008), 2011 and 2012

Industry	2011		2012		
	Domestic applications	Number of enterprises	Domestic applications	Number of enterprises	
Total	276	203	271	204	
C Manufacturing, total	163	112	164	111	
10-12 Food industry	1	1	4	3	
13-15 Textile, clothing, leather and footwear industry	2	2	4	4	
16-17 Wood and paper industry	21	16	19	12	
19-22 Chemical industry	17	15	22	18	
24-25, 28-30 Metal and engineering industry	82	55	80	53	
26-27 Electrical and electronics industry	26	9	22	8	
Other manufacturing	14	14	13	13	
D, E Electricity, gas and water supply	1	1	4	2	
F Construction	19	15	23	20	
G Wholesale and retail trade	32	29	32	28	
J Information and communication	4	4	10	9	
72 Scientific research and development	4	3	2	2	
M Professional, scientific and technical activities (excl. 72)	37	24	28	25	
Other industries	16	15	8	7	



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