

Appendix table 6-15  
**Patent classes most emphasized (top 50) by French inventors patenting in United States: 1993 and 2003**

Title (partial)	Class	Patents granted to inventors				Activity index	
		All countries		France		1993	2003
		1993	2003	1993	2003		
All classes .....	na	76,726	143,268	2,489	3,672	1.000	1.000
Resilient tires and wheels .....	152	134	201	9	38	2.165	7.642
Bleaching and dyeing: fluid treatment and chemical modification of textiles and fibers .....	008	183	230	21	33	3.699	5.800
Dispensing (apparatus and process) .....	222	337	334	26	43	2.487	5.204
Aeronautics .....	244	173	327	14	33	2.608	4.079
Pipe joints or couplings.....	285	184	243	13	24	2.277	3.992
Heat exchange.....	165	258	310	18	29	2.249	3.781
Optics: eye examining, vision testing and correcting .....	351	107	221	3	14	0.904	2.561
Drug, bioaffecting and body treating compositions (includes class 514) .....	424	3,512	6,353	213	372	1.955	2.367
Chemistry of inorganic compounds.....	423	500	451	28	26	1.805	2.330
Arithmetic processing and calculating (electrical computers) .....	708	267	245	6	14	0.724	2.310
Chairs and seats.....	297	149	457	7	25	1.514	2.211
Land vehicles: bodies and tops .....	296	188	617	5	33	0.857	2.162
Catalyst, solid sorbent, or support therefore: product or process of making .....	502	417	395	17	20	1.314	2.047
Land vehicles .....	280	469	764	21	38	1.443	2.010
Joints and connections .....	403	118	210	2	10	0.546	1.925
Gas separation: processes .....	095	131	250	8	11	1.968	1.779
Prosthesis (i.e., artificial body members), parts thereof, or aids and accessories therefore .....	623	132	617	4	27	0.977	1.769
Food or edible material: processes, compositions, and products .....	426	521	576	17	25	1.052	1.754
Compositions: ceramic .....	501	306	208	6	9	0.632	1.749
Organic compounds (includes classes 532-570) .....	532	3,141	2,715	118	116	1.211	1.727
Data processing: artificial intelligence (data processing) .....	706	157	213	0	9	0.000	1.708
Metal deforming .....	072	266	308	6	13	0.727	1.706
Specialized metallurgical processes, compositions for use therein, consolidated metal powder compositions, and loose metal particulate mixtures .....	075	205	218	6	9	0.943	1.669
Electricity: circuit makers and breakers .....	200	200	354	7	14	1.128	1.599
Printing.....	101	257	498	7	19	0.878	1.542
Liquid purification or separation.....	210	910	792	37	30	1.311	1.531
Seal for a joint or juncture.....	277	169	241	4	9	0.763	1.510
Chemistry: molecular biology and microbiology .....	435	1,349	2,938	21	109	0.502	1.500
Package making.....	053	255	379	12	14	1.517	1.493
Registers (e.g., cash registers, calculators) .....	235	288	685	12	25	1.343	1.475
Typewriting machines.....	400	209	247	1	9	0.154	1.473
Electric heating.....	219	587	928	37	33	2.032	1.437
Compositions: coating or plastic .....	106	339	442	7	15	0.666	1.372
Fluid sprinkling, spraying, and diffusing .....	239	280	391	11	13	1.266	1.344
Valves and valve actuation.....	251	193	242	8	8	1.336	1.336
Pulse or digital communications .....	375	485	1,532	23	50	1.529	1.319
Metal treatment.....	148	359	432	15	14	1.347	1.310
Bearings.....	384	192	279	8	9	1.343	1.304
Communications: radio wave antennas.....	343	195	559	16	18	2.645	1.302
Electrical transmission or interconnection systems .....	307	146	287	9	9	1.987	1.268
Cleaning compositions for solid surfaces, auxiliary compositions therefore, or processes of preparing the compositions.....	510	225	514	5	16	0.716	1.258
Electricity: conductors and insulators.....	174	283	709	8	22	0.911	1.254
Fluent material handling, with receiver or receiver coating means.....	141	161	226	7	7	1.401	1.252
Conveyors: power driven .....	198	329	430	7	13	0.686	1.222
Communications: electrical.....	340	489	894	18	27	1.186	1.221
Electricity: motive power systems .....	318	429	504	9	15	0.676	1.203
Optical waveguides .....	385	559	1,816	22	54	1.269	1.202
Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing.....	422	502	620	14	18	0.899	1.174
Clutches and power-stop control .....	192	168	311	2	9	0.384	1.170
X-ray or gamma-ray systems or devices.....	378	216	422	13	12	1.940	1.149

na = not applicable

NOTES: Activity index is percentage of patents in class granted to inventors from one country divided by percentage of all patents having inventors from that country in that year. Listing limited to Patent and Trademark Office classes that received at least 200 patents from all countries in 2003.

SOURCE: U.S. Patent and Trademark Office, Office of Electronic Information Products, Patent Technology Monitoring Division, special tabulations (2004).