

Appendix table 6-13

## Patent classes most emphasized (top 50) by French inventors patenting in United States: 1991 and 2001

Title (partial)	Class	Patents granted to inventors from:					
		All countries		France		Active 5 index	
		1991	2001	1991	2001	1991	2001
All classes .....	TOT	76,726	143,268	2,519	3,832	1.000	1.000
Chemistry of hydrocarbon compounds .....	585	304	209	9	28	0.902	5.009
Aeronautics .....	244	216	335	19	39	2.679	4.353
Clutches and power-stop control .....	192	291	256	12	27	1.256	3.943
Dispensing (apparatus and process) .....	222	376	471	18	45	1.458	3.572
Fluent material handling, with receiver or receiver coacting means .....	141	123	260	2	21	0.495	3.020
Joints and connections .....	403	167	216	8	17	1.459	2.943
Chemistry of inorganic compounds .....	423	502	444	35	34	2.124	2.863
Catalyst, solid sorbent, or support therefor: product or process of making .....	502	436	398	25	30	1.746	2.818
Drug, bio-affecting and body treating compositions (includes class 514) .....	424	3,321	6,570	176	408	1.614	2.322
Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts .....	464	62	204	7	12	3.439	2.199
Refrigeration .....	062	446	848	13	48	0.888	2.116
Electricity: magnetically operated switches, magnets, and electromagnets .....	335	155	203	7	11	1.376	2.026
Optics: eye examining, vision testing and correcting .....	351	102	205	4	11	1.194	2.006
Land vehicles .....	280	488	1,041	44	53	2.746	1.903
Communications: radio wave antennas .....	343	138	686	7	34	1.545	1.853
Chairs and seats .....	297	157	326	11	16	2.134	1.835
Liquid purification or separation .....	210	863	908	33	42	1.165	1.729
Receptacles .....	220	221	296	8	13	1.103	1.642
Arithmetic processing and calculating (electrical computers) .....	708	227	280	8	12	1.073	1.602
Pipe joints or couplings .....	285	191	240	17	10	2.711	1.558
Compositions: coating or plastic .....	106	309	386	9	16	0.887	1.550
Prosthesis (i.e., artificial body members), parts thereof, or aids and accessories therefor .....	623	167	560	7	23	1.277	1.536
Fluid sprinkling, spraying, and diffusing .....	239	263	349	9	14	1.042	1.500
Optical waveguides .....	385	603	1,239	18	49	0.909	1.479
Electricity: circuit makers and breakers .....	200	220	253	7	10	0.969	1.478
Organic compounds (includes classes 532–570) .....	532	2,788	3,160	135	123	1.475	1.455
Metal deforming .....	072	311	397	8	15	0.784	1.413
Wells (shafts or deep borings in the earth, e.g., for oil and gas) .....	166	330	503	11	19	1.015	1.412
Electrolysis: processes, compositions used therein, and methods of preparing the compositions .....	205	243	405	9	15	1.128	1.385
Communications: directive radio wave systems and devices (e.g., radar, radio navigation) .....	342	252	464	22	17	2.659	1.370
Bearings .....	384	217	279	7	10	0.983	1.340
Heat exchange .....	165	297	363	9	13	0.923	1.339
Land vehicles: bodies and tops .....	296	253	618	1	22	0.120	1.331
Measuring and testing .....	073	897	1,364	35	48	1.188	1.316
Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing .....	422	393	541	21	19	1.628	1.313
Metal treatment .....	148	297	435	12	15	1.231	1.289
Registers (e.g., cash registers, calculators, devices for counting movements of devices) .....	235	208	467	14	16	2.050	1.281
Special receptacle or package .....	206	341	438	14	15	1.251	1.280
Electricity: conductors and insulators .....	174	246	821	6	28	0.743	1.275
Illumination .....	362	307	623	8	21	0.794	1.260
Power plants .....	060	430	902	17	30	1.204	1.243
Electric power conversion systems .....	363	196	453	7	15	1.088	1.238
Data processing: measuring, calibrating, or testing .....	702	205	518	2	17	0.297	1.227
Chemistry: molecular biology and microbiology .....	435	860	3,650	22	118	0.779	1.209
Brushing, scrubbing, and general cleaning .....	015	200	318	6	10	0.914	1.176
Seal for a joint or juncture .....	277	170	291	6	9	1.075	1.156
Supports (e.g., for holding articles) .....	248	340	357	14	11	1.254	1.152
Data processing: design and analysis of circuit or semiconductor mask .....	716	33	390	0	12	0.000	1.150
Brakes .....	188	194	424	17	13	2.669	1.146
Compositions .....	252	479	462	11	14	0.699	1.133
Amplifiers .....	330	227	429	9	13	1.208	1.133

NOTES: Activity index is the percentage of patents in a class that are granted to inventors from one country divided by the percentage of all patents that have inventors from that country in that year. Listing is limited to Patent and Trademark Office classes that have received at least 200 patents from all countries in 2001.

SOURCE: U.S. Patent and Trademark Office, Information Products Division, Technology Assessment and Forecast Branch, special tabulations. (Washington, DC, 2002).