

U.S. PATENT AND TRADEMARK OFFICE  
Electronic Information Products Division  
Patent Technology Monitoring Team (PTMT)

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## Patent Counts By Class By Year

PART A1  
Granted: 01/01/1977 - 12/31/2008  
*A Patent Technology Monitoring Team Report*

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### Parts of the Report

[Description of the Report](#)  
[Report Printing and Use of Spreadsheet Software](#)

PART A1 - Patents Granted As Distributed By Year Of Patent Grant and U.S. Patent Classification System Class

[Table A1-1, Patent Counts Based on ORIGINAL Classification Only](#)

This table counts patents according to the "original" (i.e., primary) classification assigned to each patent. If the patent record is incomplete and the "original" classification is unknown, then the patent is counted in a "classification undetermined" category (class 001 for utility patents and other non-design patent documents; class D00 for design patents). See the *Description of the Report* section, below, for further details.

[Table A1-2, Patent Counts Based on ORIGINAL and CROSS-REFERENCE Classifications with Duplicate Patents Eliminated Within Classes](#)

This table counts patents according to "original" (i.e., primary) and "cross-reference" classifications assigned to each patent. Counts of duplicate patents are eliminated within each class, but not when patents are classified among different classes. For example, the same patent would be counted once in Class 002 and once in Class 004 if it has one or more classifications assigned in both classes. If the patent record is incomplete and the classifications are unknown, then the patent is counted in a "classification undetermined" category (class 001 for utility patents and other non-design patent documents; class D00 for design patents). See the *Description of the Report* section, below, for further details.

[CONTACT INFORMATION -](#)

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**Patent Counts By Class By Year**  
**PART A1**  
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## Description of the Report

Classes are major divisions of technology in the U.S. Patent Classification System (USPCS). Each class is further divided into smaller divisions of technology called subclasses. The USPCS currently contains approximately 470 total classes and 163,000 total subclasses. Copies of each patent are placed (classified) in those subclasses that have been identified as pertinent to the information disclosed in the patent. One, and only one, of these subclasses is designated as the "original classification" (OR), and the remainder (if any) are designated as "cross-reference classifications" (XR).

The "original" classification of a patent may be considered to be its "primary" classification. This classification need not correspond to any classification that was assigned to the patent at the time of issue since the classification system is continuously undergoing revision and since classifications that are assigned to patents are continuously updated to reflect these revisions. Counting patents by "original" classification will ensure that each patent is counted only once. However, if a patent teaches more than one concept, e.g., table and chair, only one concept, e.g., table, will be counted. To ensure that all concepts are counted, patents should be counted in all of their classifications. **Unless otherwise indicated, patent classifications used to produce this report are those assigned to patents as of the end of the most recent calendar year for which counts are reported (e.g., December 31, 2008).** Please refer to the U.S. Patent and Trademark Office Manual of Patent Classification for further information concerning the patent classification system.

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### PATENTS INCLUDED IN THIS REPORT

This Patent Technology Monitoring Team (PTMT) Report profiles patent activity for U.S. patents granted between **01/01/1977 and 12/31/2008**. The source of the data used for this report is the TAF database maintained by the U.S. Patent and Trademark Office.

This report counts only documents of the following type(s):

**utility patents (i.e., "patents for invention"), design patents, plant patents, reissue patents, statutory invention registrations, defensive publications** granted by the U.S. Patent and Trademark Office during the period **01/01/1977 - 12/31/2008**. These profiled documents hereafter will be referred to as "patents".

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### PART A1 -- DATA DISTRIBUTION BY YEAR OF GRANT

**Part A1** presents tables which profile patent activity by U.S. Patent Classification System class. Part A1 presents data by year of patent grant ("Patents Granted As Distributed By Year of Patent Grant"). Patent data as shown in the "**Pre YYYY**" column (where "YYYY" is a four-digit year) correspond to activity in the specified time period prior to "YYYY".

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## Report Printing and the Use of Spreadsheet Software

This report can be printed from an Internet browser - for such printing, optimal results are usually obtained by printing in landscape orientation with minimal margins and a small text font. Microsoft Internet Explorer, version 7, works particularly well for printing this report using its "Shrink to Fit" option in Print Preview mode.

Additionally, a user may import this report file into spreadsheet software such as Microsoft Excel to facilitate printing. Such spreadsheet software also may facilitate sorting and further manipulation of the data.

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**Patent Counts By Class By Year**  
**PART A1**  
 Granted: 01/01/1977 - 12/31/2008  
 A Patent Technology Monitoring Team Report

**Part A1-1. Patent Counts By Class By Year**  
**Patent Counts Based on ORIGINAL Classification Only**

Number of Patents Granted as Distributed by Year of Patent Grant,  
 Breakout by U.S. Patent Classification System Class

*Table A1-1, Breakout by U.S. Patent Classification System Class*  
*Patent Counts Distributed by Year of Patent Grant*  
*Patents Granted: 01/01/1977 - 12/31/2008*

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
001	** Classification Undetermined **	4	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	9	7	15	7	46
002	Apparel	1911	210	284	243	394	341	232	259	269	384	426	508	601	568	550	496	338	408	341	381	238	220	9602
004	Baths, Closets, Sinks, and Spitoons	1673	184	218	272	287	221	249	290	230	198	218	311	409	327	351	398	329	309	231	219	182	138	7244
005	Beds	1685	227	256	295	320	338	268	237	268	335	298	312	314	353	343	333	373	403	389	390	278	350	8365
007	Compound Tools	181	17	28	21	33	21	34	25	14	28	25	31	40	41	46	39	33	38	39	39	29	10	812
008	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	2264	202	245	172	194	176	201	202	188	211	159	228	310	239	187	194	243	212	136	194	205	180	6542
012	Boot and Shoe Making	252	12	17	21	14	11	14	13	7	11	10	14	20	6	11	6	9	9	4	9	6	11	487
014	Bridges	254	20	27	31	33	22	25	36	44	41	30	39	41	32	28	53	38	49	34	46	39	32	994
015	Brushing, Scrubbing, and General Cleaning	2908	341	370	338	366	338	314	446	432	446	394	544	599	620	506	446	500	425	351	346	437	392	11859
016	Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, Etc.)	1105	154	217	117	177	135	132	130	148	179	164	216	202	227	199	270	258	215	190	232	166	145	4978
019	Textiles: Fiber Preparation	624	49	76	87	122	65	54	68	66	54	54	47	45	58	65	52	42	22	20	28	15	27	1740
023	Chemistry: Physical Processes	169	6	4	11	5	15	10	19	12	5	5	13	7	14	10	11	8	5	10	6	4	7	356
024	Buckles, Buttons, Clasps, Etc.	1914	176	220	256	257	243	210	225	236	227	293	288	299	276	306	357	322	205	144	223	200	200	7077
026	Textiles: Cloth Finishing	183	13	20	28	17	18	12	11	26	20	17	23	25	14	12	7	9	7	8	6	9	4	489
027	Undertaking	78	9	11	15	11	14	13	13	14	16	28	24	20	23	23	12	25	15	12	13	42	33	464
028	Textiles: Manufacturing	452	32	42	77	59	53	39	64	60	38	47	39	45	54	44	51	45	46	23	45	42	39	1436
029	Metal Working	7529	894	1044	830	992	980	1050	961	878	923	975	1201	1120	1254	1378	1256	1471	1398	1243	1494	1247	1033	31151
030	Cutlery	2200	186	299	286	339	237	202	221	213	234	228	276	304	291	282	306	299	275	221	230	199	164	7492
033	Geometrical Instruments	3083	232	272	364	363	335	250	235	320	245	195	255	213	318	341	407	386	374	398	379	413	382	9760
034	Drying and Gas or Vapor Contact with Solids	1789	151	151	152	183	189	199	201	167	249	229	241	284	349	234	256	184	202	193	187	97	157	6044
036	Boots, Shoes, and Leggings	1299	158	171	193	148	112	141	165	160	146	177	258	258	227	202	194	185	217	196	214	175	208	5204
037	Excavating	848	64	94	75	88	94	82	50	85	103	79	101	112	122	108	139	108	115	103	95	67	43	2775
038	Textiles: Ironing or Smoothing	247	20	29	25	33	22	12	38	29	32	37	34	33	38	30	36	23	36	20	39	28	26	867
040	Card, Picture, or Sign Exhibiting	1743	199	242	191	195	132	145	197	191	176	188	214	240	265	262	249	313	245	202	173	204	221	6187
042	Firearms	920	93	120	136	154	100	93	108	139	108	144	149	136	87	164	189	195	155	119	130	128	135	3702
043	Fishing, Trapping, and Vermin Destroying	1926	262	410	281	253	263	284	273	212	274	176	184	346	292	206	243	296	221	195	170	139	130	7036
044	Fuel and Related Compositions	1366	113	129	84	92	81	86	103	96	105	79	100	105	119	98	77	112	89	46	28	58	66	3232
047	Plant Husbandry	1073	109	138	140	152	141	130	162	173	178	130	143	192	236	200	222	206	129	103	107	83	48	4195
048	Gas: Heating and Illuminating	713	39	62	62	22	19	23	12	34	23	42	44	28	19	24	7	21	35	27	50	60	69	1435
049	Movable or Removable Closures	1468	121	194	186	204	148	167	166	174	176	139	176	182	236	194	191	168	187	140	139	80	88	4924
051	Abrasive Tool Making Process, Material, or Composition	375	34	51	57	62	86	89	58	51	69	73	42	52	45	70	77	82	71	41	31	45	29	1590
052	Static Structures (e.g., Buildings)	6252	614	775	712	689	606	643	689	616	750	830	1000	983	1012	1136	974	851	774	677	565	440	400	21988
053	Package Making	2771	305	369	362	401	337	301	278	418	391	436	538	394	455	387	359	418	425	378	352	248	360	10683
054	Harness for Working Animal	119	14	16	17	24	25	16	19	16	15	12	27	12	31	24	33	35	31	13	27	34	25	585
055	Gas Separation	986	73	98	98	98	118	114	64	77	96	103	184	152	170	172	190	169	177	150	147	181	253	3870

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
056	Harvesters	1877	183	191	244	216	176	176	172	198	158	116	214	238	229	182	205	201	178	199	165	118	142	5778
057	Textiles: Spinning, Twisting, and Twining	1945	152	161	149	69	133	113	142	111	109	111	162	116	107	132	98	61	66	50	75	48	57	4167
059	Chain, Staple, and Horseshoe Making	203	12	23	15	16	19	20	23	20	12	20	27	27	23	41	28	29	24	27	30	28	34	701
060	Power Plants	5462	555	554	522	519	644	634	644	620	503	537	710	672	740	1025	974	944	951	947	1095	758	707	20717
062	Refrigeration	4559	517	582	574	583	572	710	653	636	632	685	791	902	884	1045	1099	1022	813	660	797	836	564	20116
063	Jewelry	191	35	31	26	37	48	34	28	36	42	55	40	33	41	36	56	52	43	26	40	38	37	1005
065	Glass Manufacturing	2453	232	277	220	207	234	175	174	101	118	200	234	251	175	194	200	202	223	124	139	97	103	6333
066	Textiles: Knitting	920	86	90	35	86	71	80	74	69	94	73	73	89	141	128	71	70	82	81	80	61	49	2603
068	Textiles: Fluid Treating Apparatus	609	60	63	60	63	50	70	62	62	70	80	112	111	69	49	79	72	29	33	35	72	93	2003
069	Leather Manufactures	85	5	6	3	7	1	2	1	0	2	3	1	2	2	1	1	1	4	7	0	1	1	136
070	Locks	1730	200	262	223	239	171	189	182	210	201	242	338	319	248	211	285	308	222	212	203	178	205	6578
071	Chemistry: Fertilizers	528	33	35	31	37	53	38	40	61	44	59	58	42	39	62	64	24	27	14	12	11	14	1326
072	Metal Deforming	4039	392	396	376	384	326	326	325	277	325	389	470	500	435	450	343	350	322	259	458	385	308	11835
073	Measuring and Testing	11190	1016	1287	1205	1154	1070	1125	1372	1356	1463	1347	1653	1527	1517	1574	1683	2054	1724	1777	1914	1792	1917	42717
074	Machine Element or Mechanism	3996	464	557	487	438	514	594	409	373	490	425	618	626	613	604	561	491	410	353	389	390	340	14142
075	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures	2485	246	211	236	203	192	227	223	245	175	150	200	247	231	274	289	235	190	131	102	136	123	6751
076	Metal Tools and Implements, Making	307	31	39	16	41	38	23	27	44	28	24	23	19	31	21	19	22	15	10	9	16	8	811
079	Button Making	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1	0	0	8
081	Tools	1456	213	233	201	211	185	187	197	142	193	130	184	285	352	407	293	228	256	310	416	337	205	6621
082	Turning	777	62	79	67	82	74	63	54	33	41	64	73	82	68	75	55	109	50	45	49	30	38	2070
083	Cutting	2918	206	246	259	308	282	259	235	183	157	177	301	337	314	286	204	264	320	210	272	174	143	8055
084	Music	2510	173	222	251	239	252	299	305	343	323	273	342	417	381	347	306	277	274	234	316	374	425	8883
086	Ammunition and Explosive-Charge Making	172	16	20	18	18	19	18	17	16	10	14	21	10	11	16	15	15	7	14	15	12	14	488
087	Textiles: Braiding, Netting, and Lace Making	77	16	10	13	8	8	7	9	11	6	6	13	15	7	8	11	9	5	2	8	11	7	267
089	Ordnance	1226	122	156	181	152	159	129	134	134	80	111	123	108	83	124	118	126	117	87	84	98	104	3756
091	Motors: Expandable Chamber Type	1511	160	140	122	107	133	122	92	67	87	77	111	77	80	92	104	81	92	69	79	80	48	3531
092	Expandable Chamber Devices	781	125	142	105	135	90	93	101	101	93	111	141	136	99	153	160	144	113	105	99	126	103	3256
095	Gas Separation: Processes	1269	167	164	153	163	180	152	122	134	136	132	205	216	205	227	272	276	218	166	211	165	213	5146
096	Gas Separation: Apparatus	1264	122	125	125	122	112	108	93	97	111	124	138	133	126	130	168	159	142	116	108	127	151	3901
099	Foods and Beverages: Apparatus	1689	201	202	220	201	210	254	234	309	279	320	306	352	332	332	277	278	247	173	176	112	168	6872
100	Presses	1181	105	72	54	107	115	117	113	99	103	103	135	105	82	82	56	129	105	82	107	73	97	3222
101	Printing	2516	207	271	264	302	327	309	319	339	357	366	525	447	431	385	438	546	581	333	353	205	201	10022
102	Ammunition and Explosives	1722	209	231	215	261	203	197	182	180	155	143	155	132	121	215	192	213	151	137	141	110	141	5406
104	Railways	856	90	91	122	92	96	81	71	82	86	102	73	52	65	91	105	84	57	47	33	41	51	2468
105	Railway Rolling Stock	763	58	71	70	78	82	72	69	78	77	71	91	55	65	99	91	81	49	67	49	43	47	2226
106	Compositions: Coating or Plastic	2904	283	287	264	344	426	376	483	406	394	415	554	518	427	428	472	489	489	311	372	411	365	11418
108	Horizontally Supported Planar Surfaces	759	75	130	89	73	97	76	145	138	167	158	159	176	190	152	155	149	159	110	118	64	71	3410
109	Safes, Bank Protection, or a Related Device	236	18	22	20	12	8	18	12	11	12	22	21	16	11	7	12	14	8	12	5	6	7	510
110	Furnaces	1109	149	132	154	144	124	108	137	80	104	121	143	82	93	119	92	50	68	79	62	33	32	3215
111	Planting	407	43	25	44	36	30	26	38	41	55	47	38	59	59	68	48	66	58	47	59	57	59	1410
112	Sewing	2304	164	197	160	214	171	143	127	134	178	156	181	188	157	146	87	65	112	92	89	71	78	5214
114	Ships	2277	251	286	283	294	255	239	259	268	271	256	257	277	336	318	274	287	258	321	331	292	259	8149
116	Signals and Indicators	672	47	73	67	87	58	63	81	58	57	52	39	51	59	66	75	65	73	60	48	48	57	1956
117	Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non-Coating Apparatus Therefor	787	77	98	102	88	108	129	151	177	138	127	203	236	226	190	187	178	192	175	184	206	221	4180
118	Coating Apparatus	2036	152	231	246	269	271	290	273	323	369	375	408	431	554	544	478	444	366	299	258	225	256	9098
119	Animal Husbandry	1784	187	210	257	311	310	277	291	248	279	283	456	391	357	356	438	434	298	304	325	297	234	8327
122	Liquid Heaters and Vaporizers	985	89	112	101	76	56	68	99	47	59	35	86	82	82	82	82	86	65	64	46	43	52	2497
123	Internal-Combustion Engines	10370	956	1076	1116	1196	1154	1082	843	864	1076	1108	1294	1240	1397	1752	1776	1741	1664	1622	1836	1636	1513	38312

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124	Mechanical Guns and Projectors	564	61	87	70	79	77	84	92	108	104	138	106	109	101	82	79	114	138	81	71	95	76	2516	
125	Stone Working	271	25	31	45	21	28	36	24	20	24	31	41	47	68	64	61	39	38	47	63	30	30	1084	
126	Stoves and Furnaces	4175	210	225	240	198	144	149	167	169	139	143	162	230	224	184	122	164	166	154	78	61	62	7566	
127	Sugar, Starch, and Carbohydrates	323	26	36	19	31	30	20	25	23	22	18	32	47	21	26	25	12	15	6	11	12	5	785	
128	Surgery	1714	151	339	306	365	294	324	390	389	494	522	653	558	588	481	522	573	521	411	505	374	302	10776	
131	Tobacco	1419	138	146	157	164	174	94	83	90	91	92	129	80	89	61	67	73	92	45	30	48	34	3396	
132	Toilet	845	73	92	107	134	118	103	130	96	136	140	244	322	239	188	169	157	102	66	94	113	72	3740	
134	Cleaning and Liquid Contact with Solids	1452	208	256	205	270	262	270	317	321	303	322	433	549	438	462	514	554	390	302	272	284	267	8651	
135	Tent, Canopy, Umbrella, or Cane	403	63	107	75	62	74	86	126	90	95	105	131	112	122	186	134	93	123	81	78	102	90	2538	
136	Batteries: Thermoelectric and Photoelectric	936	71	53	57	71	63	72	76	91	85	65	72	118	173	203	180	147	113	55	58	78	60	2897	
137	Fluid Handling	6415	588	735	676	699	678	662	623	581	555	539	746	903	947	1020	722	673	686	693	678	539	443	20801	
138	Pipes and Tubular Conduits	1239	103	112	84	105	75	81	111	127	114	110	172	240	275	216	177	158	135	152	150	88	90	4114	
139	Textiles: Weaving	1283	107	125	128	142	124	100	110	119	100	98	109	89	137	156	98	41	67	95	102	44	56	3430	
140	Wireworking	404	28	22	31	27	35	29	25	26	33	33	36	33	31	26	21	28	19	8	33	22	19	969	
141	Fluent Material Handling, with Receiver or Receiver Coacting Means	1543	110	177	176	173	184	217	255	209	228	215	237	298	251	347	312	289	333	268	275	232	133	6462	
142	Wood Turning	27	1	1	3	3	5	1	1	1	3	2	1	5	2	2	0	1	0	0	0	0	0	0	59
144	Woodworking	1141	102	123	121	106	130	87	109	101	80	91	107	139	133	110	111	121	72	53	109	74	83	3303	
147	Coopering	2	0	1	0	0	0	0	0	1	0	0	1	0	0	4	0	0	0	0	0	0	0	0	9
148	Metal Treatment	2622	280	352	313	318	379	386	367	378	339	293	393	406	403	469	479	468	345	227	202	191	202	9812	
149	Explosive and Thermic Compositions or Charges	626	33	51	65	77	31	27	19	52	82	46	55	41	73	57	43	61	45	62	25	2	8	1581	
150	Purses, Wallets, and Protective Covers	101	14	17	23	18	21	21	19	15	15	10	20	17	28	23	18	21	15	9	13	18	10	466	
152	Resilient Tires and Wheels	1197	131	146	127	116	116	160	160	135	104	125	146	130	178	170	233	224	169	149	172	147	125	4360	
156	Adhesive Bonding and Miscellaneous Chemical Manufacture	6447	673	788	766	655	695	767	758	806	751	887	1058	1128	1070	1076	1078	1188	1049	750	732	614	555	24291	
157	Wheelwright Machines	146	19	20	11	20	15	18	10	8	7	5	5	7	15	23	8	14	7	12	16	20	18	424	
159	Concentrating Evaporators	252	13	13	13	14	28	26	10	12	11	5	14	9	8	5	7	3	7	14	7	4	4	479	
160	Flexible or Portable Closure, Partition, or Panel	833	102	161	123	157	170	123	122	125	159	165	173	171	244	212	172	188	193	168	162	138	98	4159	
162	Paper Making and Fiber Liberation	1551	153	192	230	189	226	215	206	224	269	295	330	286	325	423	427	308	271	192	209	204	200	6925	
163	Needle and Pin Making	9	2	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	15
164	Metal Founding	2251	260	248	251	260	187	258	260	175	196	200	225	244	162	205	261	290	201	218	235	183	104	6874	
165	Heat Exchange	3301	314	355	319	351	316	307	335	253	301	266	346	380	370	420	373	346	417	424	544	359	253	10650	
166	Wells	3799	359	437	378	402	400	417	528	406	308	248	386	423	518	632	525	596	648	515	841	755	744	14265	
168	Farriery	54	9	7	6	14	14	12	9	2	7	9	8	6	12	10	16	10	10	6	3	5	6	235	
169	Fire Extinguishers	392	29	44	43	53	63	45	33	32	59	56	67	88	96	49	52	45	49	49	58	40	50	1492	
171	Unearthing Plants or Buried Objects	119	5	10	13	8	5	8	6	8	5	5	6	2	7	4	5	6	5	4	6	1	1	239	
172	Earth Working	1479	69	136	107	86	83	75	82	109	110	94	134	111	131	127	100	87	97	91	90	46	37	3481	
173	Tool Driving or Impacting	785	61	100	53	77	86	46	65	53	57	54	76	86	99	91	66	90	115	104	124	83	109	2480	
174	Electricity: Conductors and Insulators	2200	233	290	223	288	243	336	364	403	355	316	487	416	516	914	954	792	751	682	653	639	625	12680	
175	Boring or Penetrating the Earth	1721	168	206	169	191	184	160	223	170	181	154	214	233	270	306	276	261	229	203	275	265	280	6339	
177	Weighing Scales	1010	97	142	76	64	89	90	75	41	36	60	111	92	57	69	84	87	94	65	85	83	69	2676	
178	Telegraphy	372	37	48	27	39	32	32	26	41	55	40	36	32	10	14	11	11	14	5	10	7	2	901	
180	Motor Vehicles	3175	407	430	351	419	355	327	340	215	303	200	357	416	458	492	536	574	507	575	581	585	608	12211	
181	Acoustics	1234	122	162	125	118	109	113	98	112	111	101	154	173	171	126	152	179	144	126	72	110	142	3954	
182	Fire Escape, Ladder, or Scaffold	1201	126	125	133	151	169	83	138	104	97	104	151	191	162	130	166	128	153	137	144	95	47	3935	
184	Lubrication	341	44	41	75	69	54	71	54	53	59	42	52	44	60	69	66	62	41	39	41	34	31	1442	
185	Motors: Spring, Weight, or Animal Powered	52	4	4	5	0	3	5	3	5	0	4	3	5	4	3	6	2	4	2	1	0	0	115	
186	Merchandising	64	7	5	9	11	20	10	8	9	13	9	12	9	10	6	7	17	10	3	3	8	3	253	
187	Elevator, Industrial Lift Truck, or Stationary Lift for Vehicle	761	91	61	64	125	106	114	123	101	120	111	154	182	116	132	171	102	70	67	112	128	130	3141	
188	Brakes	2227	224	300	197	227	236	212	238	275	295	203	253	307	295	481	448	315	251	290	302	261	240	8077	

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
190	Trunks and Hand-Carried Luggage	173	28	31	19	24	42	24	26	37	37	31	37	38	39	47	39	47	23	26	31	22	21	842
191	Electricity: Transmission To Vehicles	167	11	12	9	17	16	20	16	10	13	21	18	15	14	35	23	15	13	14	12	5	2	478
192	Clutches and Power-Stop Control	2470	194	281	304	327	289	179	162	177	245	280	266	393	359	275	298	326	296	223	259	193	174	7970
193	Conveyors, Chutes, Skids, Guides, and Ways	223	16	14	18	25	18	20	13	14	9	11	4	26	26	35	28	17	16	11	19	16	15	594
194	Check-Actuated Control Mechanisms	445	34	59	41	57	56	60	68	89	83	51	56	84	81	66	34	56	45	52	36	31	18	1602
196	Mineral Oils: Apparatus	68	5	2	3	6	4	5	3	2	2	4	5	2	4	1	1	0	0	0	2	0	2	121
198	Conveyors: Power-Driven	3008	355	405	387	425	468	389	423	327	304	282	321	422	421	523	474	486	411	313	342	340	334	11160
199	Type Casting	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
200	Electricity: Circuit Makers and Breakers	3406	283	293	277	263	208	233	259	239	251	249	389	363	345	275	325	384	418	359	414	341	326	9900
201	Distillation: Processes, Thermolytic	323	6	11	9	7	10	1	6	13	5	14	12	3	5	3	1	3	3	4	9	0	5	453
202	Distillation: Apparatus	670	35	31	38	28	27	44	32	36	29	31	31	35	24	25	21	26	21	18	23	15	21	1261
203	Distillation: Processes, Separatory	770	50	54	79	56	86	83	62	80	62	68	84	74	48	40	71	43	33	36	35	32	33	1979
204	Chemistry: Electrical and Wave Energy	4420	332	506	460	376	493	466	531	488	421	425	475	544	688	723	682	606	517	403	341	348	315	14560
205	Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions	3964	284	327	325	281	343	338	346	329	294	285	276	349	334	468	392	348	352	240	204	200	178	10457
206	Special Receptacle or Package	4254	539	699	623	588	571	597	655	631	631	614	853	872	804	685	617	561	486	530	492	384	529	17215
208	Mineral Oils: Processes and Products	3511	253	314	293	274	207	206	280	183	126	134	152	254	207	193	169	152	144	106	117	140	163	7578
209	Classifying, Separating, and Assorting Solids	2178	213	226	187	178	183	198	187	182	166	159	166	221	220	227	175	160	184	146	143	126	145	5970
210	Liquid Purification or Separation	7358	923	1091	1018	1134	1282	1204	954	1043	1119	1115	1163	1164	1176	1228	1044	999	998	895	881	972	933	29694
211	Supports: Racks	1356	184	175	206	239	248	232	246	185	234	258	332	303	321	308	300	293	251	227	227	195	112	6432
212	Traversing Hoists	441	37	28	32	36	42	30	16	26	24	44	47	37	51	38	30	53	21	14	34	38	45	1164
213	Railway Draft Appliances	162	6	5	14	14	28	11	14	14	27	14	15	14	13	22	14	5	14	5	10	9	10	440
215	Bottles and Jars	1380	203	201	145	162	153	126	122	156	121	133	186	197	165	135	117	102	93	91	117	80	70	4255
216	Etching a Substrate: Processes	738	85	124	139	142	137	229	205	208	156	192	238	229	215	224	246	257	229	197	241	228	233	4892
217	Wooden Receptacles	39	4	4	2	0	2	1	5	2	2	0	5	5	3	1	1	1	0	2	1	0	2	82
218	High-Voltage Switches with Arc Preventing or Extinguishing Devices	790	59	46	45	44	50	34	39	26	52	34	79	55	47	65	60	48	57	33	30	22	14	1729
219	Electric Heating	6157	644	805	743	685	670	691	720	639	601	557	838	955	1162	1131	1121	1046	1085	950	1023	801	579	23603
220	Receptacles	2839	341	450	446	402	407	412	393	377	383	347	453	515	482	488	402	283	285	230	288	216	187	10626
221	Article Dispensing	908	78	100	96	123	116	114	110	119	127	85	135	144	152	174	141	184	151	98	142	100	81	3478
222	Dispensing	3718	378	485	539	573	534	510	573	520	466	437	557	790	628	649	641	448	470	420	415	344	238	14333
223	Apparel Apparatus	373	32	31	44	71	60	31	30	49	53	73	61	82	94	85	51	36	55	44	39	54	43	1491
224	Package and Article Carriers	1146	163	204	199	208	158	206	203	256	260	267	319	302	246	295	252	223	224	140	110	97	85	5563
225	Severing by Tearing or Breaking	362	30	29	25	40	56	36	36	32	31	23	36	35	21	26	29	37	37	30	31	17	12	1011
226	Advancing Material of Indeterminate Length	703	57	84	47	35	37	47	60	42	33	35	80	58	47	51	53	43	26	18	16	21	18	1611
227	Elongated-Member-Driving Apparatus	808	83	105	70	90	80	70	78	93	106	123	126	110	124	94	83	120	148	133	175	132	145	3096
228	Metal Fusion Bonding	1421	204	275	197	235	278	299	273	241	203	203	181	259	371	384	328	300	304	257	191	136	199	6739
229	Envelopes, Wrappers, and Paperboard Boxes	1470	184	205	204	227	184	190	221	186	162	141	200	199	191	188	153	118	58	97	76	83	77	4814
231	Whips and Whip Apparatus	8	1	1	0	2	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	3	20
232	Deposit and Collection Receptacles	196	34	35	34	30	27	16	17	38	22	23	25	28	19	23	18	21	25	27	37	52	42	789
234	Selective Cutting (e.g., Punching)	24	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	3	2	8	1	3	47
235	Registers	1432	202	319	193	234	239	316	311	365	350	319	445	566	599	514	597	797	813	615	1041	1025	1085	12377
236	Automatic Temperature and Humidity Regulation	958	62	81	70	55	61	93	78	59	56	45	67	87	80	82	86	75	68	59	64	69	41	2396
237	Heating Systems	417	28	28	42	28	26	32	25	19	23	24	49	45	46	38	39	39	31	23	25	7	11	1045
238	Railways: Surface Track	293	31	28	34	20	36	14	17	20	27	20	31	14	21	32	36	24	23	14	19	10	14	778
239	Fluid Sprinkling, Spraying, and Diffusing	3356	351	394	397	384	387	398	421	340	306	354	531	574	639	479	498	537	633	513	557	361	297	12707
241	Solid Material Comminution or Disintegration	1961	222	225	226	217	199	247	236	225	249	218	245	280	212	174	198	215	156	148	201	238	190	6482
242	Winding, Tensioning, or Guiding	4199	483	474	448	377	339	447	549	367	445	421	574	536	528	442	506	462	367	338	339	316	291	13248
244	Aeronautics and Astronautics	2303	294	287	251	350	391	294	283	238	223	213	404	386	435	446	449	441	428	350	369	345	281	9461
245	Wire Fabrics and Structure	14	1	0	1	1	0	1	0	0	0	0	1	0	1	3	0	0	0	1	2	1	1	28

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
246	Railway Switches and Signals	216	20	16	23	21	27	26	29	33	38	37	45	16	31	33	37	37	24	16	28	27	19	799
248	Supports	3437	425	563	610	710	665	491	538	492	490	493	753	723	804	685	798	737	496	405	466	500	420	15701
249	Static Molds	755	72	75	45	35	41	39	28	31	35	45	50	39	35	54	45	46	60	39	57	46	23	1695
250	Radiant Energy	6667	1009	1308	1271	1369	1233	1103	1198	1143	1028	908	1153	1053	1061	1315	1512	1750	1865	1551	2284	2009	2210	36000
251	Valves and Valve Actuation	2147	198	239	267	218	261	245	250	166	178	167	244	286	341	244	254	284	326	367	382	210	179	7453
252	Compositions	3486	349	409	408	522	546	542	535	502	532	501	665	655	602	511	431	554	528	326	441	421	435	13901
254	Implements or Apparatus for Applying Pushing or Pulling Force	1245	97	124	91	78	114	130	91	72	85	99	100	144	150	135	138	162	116	124	148	123	138	3704
256	Fences	383	35	44	47	36	39	39	34	38	45	54	51	49	62	70	46	73	57	64	54	35	48	1403
257	Active Solid-State Devices (e.g., Transistors, Solid-State Diodes)	3377	485	753	958	1243	1119	1006	1387	1365	1543	1621	2417	2621	2713	2973	3574	4286	4681	4278	4483	4297	4119	55299
258	Railway Mail Delivery	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
260	Chemistry of Carbon Compounds	24	1	1	0	2	4	8	6	3	1	3	4	0	3	10	2	2	2	2	0	1	5	84
261	Gas and Liquid Contact Apparatus	1452	94	100	102	98	101	86	67	75	101	92	86	111	119	136	130	124	121	78	117	108	98	3596
264	Plastic and Nonmetallic Article Shaping or Treating: Processes	6387	610	817	812	906	1017	997	750	805	772	890	1112	995	975	997	885	998	988	656	646	540	505	24060
266	Metallurgical Apparatus	1493	123	125	108	129	117	111	145	120	87	79	75	86	92	92	88	94	69	43	36	45	57	3414
267	Spring Devices	790	200	209	143	123	145	146	124	107	117	110	119	149	158	184	220	177	109	82	113	99	102	3726
269	Work Holders	911	85	134	115	80	107	85	74	57	82	64	104	127	137	123	122	122	95	86	89	64	52	2915
270	Sheet-Material Associating	393	60	42	68	95	99	52	55	63	60	63	68	34	33	60	45	52	66	32	54	48	75	1617
271	Sheet Feeding or Delivering	1815	178	233	230	342	383	351	287	261	229	241	202	324	319	358	289	379	251	219	215	215	338	7659
273	Amusement Devices: Games	2319	183	283	278	284	295	258	338	337	312	326	360	311	293	312	322	301	218	189	218	231	224	8192
276	Typesetting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
277	Seal for a Joint or Juncture	2033	146	202	123	192	183	188	165	134	240	212	183	226	258	326	296	263	249	206	187	107	112	6231
278	Land Vehicles: Animal Draft Appliances	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	6
279	Chucks or Sockets	395	34	40	30	47	47	49	61	52	38	26	57	72	47	71	55	76	37	57	23	34	29	1377
280	Land Vehicles	5652	621	694	683	817	698	795	929	926	1012	817	1118	1184	1394	1502	1378	1152	1148	1112	1139	1165	1219	27155
281	Books, Strips, and Leaves	222	30	48	48	43	42	55	37	45	37	46	51	71	54	48	34	19	24	17	15	8	13	1007
283	Printed Matter	325	43	73	74	87	85	88	97	100	75	79	120	138	125	117	77	54	66	33	33	24	30	1943
285	Pipe Joints or Couplings	2366	223	310	256	258	319	250	324	265	253	189	299	315	287	293	346	294	229	251	251	165	276	8019
289	Knots and Knot Tying	89	7	7	4	4	2	2	1	1	5	9	3	7	5	10	7	10	7	4	3	5	4	196
290	Prime-Mover Dynamo Plants	754	55	59	35	31	42	22	34	34	17	26	65	54	83	108	106	98	168	183	199	194	240	2607
291	Track Sanders	10	4	0	3	0	1	0	0	0	3	0	0	0	1	0	1	2	1	5	1	1	1	34
292	Closure Fasteners	1466	144	205	241	255	220	148	113	134	211	196	184	189	234	126	242	239	162	160	182	194	172	5417
293	Vehicle Fenders	265	22	24	33	32	38	26	21	19	15	22	30	28	32	61	55	55	69	74	54	60	56	1091
294	Handling: Hand and Hoist-Line Implements	1606	176	174	147	141	165	169	170	165	183	181	239	210	241	195	211	153	81	91	142	149	121	5110
295	Railway Wheels and Axles	33	2	1	3	4	1	1	1	0	4	4	0	9	2	3	4	5	4	1	0	1	1	84
296	Land Vehicles: Bodies and Tops	1988	266	325	372	392	321	291	278	239	318	285	435	539	625	795	730	779	787	731	822	744	702	12764
297	Chairs and Seats	2216	300	354	262	273	299	233	457	344	460	447	540	591	652	490	556	640	629	480	626	505	549	11903
298	Land Vehicles: Dumping	151	9	13	10	14	11	14	11	20	20	7	17	11	21	25	16	27	24	17	13	11	12	474
299	Mining or In Situ Disintegration of Hard Material	1294	75	78	73	56	78	55	39	43	40	45	39	39	45	57	53	45	36	36	36	29	67	2358
300	Brush, Broom, and Mop Making	41	10	11	13	7	15	9	9	13	12	15	12	12	5	12	12	13	12	8	3	6	8	258
301	Land Vehicles: Wheels and Axles	425	46	46	56	63	62	49	59	48	75	56	79	86	122	128	132	119	97	79	91	58	75	2051
303	Fluid-Pressure and Analogous Brake Systems	1242	196	210	159	170	176	223	218	220	217	191	216	231	274	302	247	187	132	142	140	117	142	5352
305	Wheel Substitutes for Land Vehicles	277	12	33	18	15	17	15	20	22	14	18	34	31	41	44	51	46	28	31	27	28	26	848
307	Electrical Transmission or Interconnection Systems	1393	197	188	99	104	117	178	138	164	222	274	320	386	326	276	288	316	300	141	285	289	318	6319
310	Electrical Generator or Motor Structure	3716	402	494	440	489	508	491	480	432	427	492	864	873	908	997	987	877	1365	1105	1051	917	968	19283
312	Supports: Cabinet Structure	1443	151	158	136	149	170	195	162	213	193	191	235	262	272	207	247	218	207	172	128	120	113	5342
313	Electric Lamp and Discharge Devices	2635	356	388	340	337	292	269	206	299	397	376	607	610	556	601	729	1031	915	692	769	764	723	13892
314	Electric Lamp and Discharge Devices: Consumable Electrodes	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	8

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
315	Electric Lamp and Discharge Devices: Systems	3119	299	290	409	480	364	320	332	401	357	305	453	472	539	617	730	750	643	517	575	535	499	<b>13006</b>
318	Electricity: Motive Power Systems	3592	360	392	445	426	415	468	420	422	467	419	663	618	634	585	580	527	563	562	778	621	583	<b>14540</b>
320	Electricity: Battery or Capacitor Charging or Discharging	576	52	50	32	58	105	122	110	102	149	267	245	323	361	397	355	295	251	208	183	186	246	<b>4673</b>
322	Electricity: Single Generator Systems	399	32	27	32	44	35	42	36	18	55	53	62	37	49	50	38	37	62	36	66	75	62	<b>1347</b>
323	Electricity: Power Supply or Regulation Systems	1201	118	144	132	110	136	110	130	168	197	260	267	311	305	334	326	291	275	292	400	382	375	<b>6264</b>
324	Electricity: Measuring and Testing	4973	799	1032	862	875	922	876	829	1023	1244	985	986	939	1181	1478	1907	1847	1836	1698	1964	1818	1706	<b>31780</b>
326	Electronic Digital Logic Circuitry	1021	177	233	222	310	321	237	285	351	368	304	329	357	535	584	585	497	546	507	528	653	643	<b>9593</b>
327	Miscellaneous Active Electrical Nonlinear Devices, Circuits, and Systems	3376	362	442	379	450	540	393	531	642	717	597	987	1092	1219	1408	1453	1257	1205	1066	1289	1173	1036	<b>21614</b>
329	Demodulators	341	28	53	29	27	39	17	30	42	28	31	36	30	36	32	17	24	27	17	17	9	16	<b>926</b>
330	Amplifiers	1991	214	228	189	245	251	195	269	252	208	209	266	354	426	451	477	551	589	478	651	652	639	<b>9785</b>
331	Oscillators	1375	122	173	151	161	186	127	158	173	169	176	228	220	268	299	223	345	356	293	380	397	376	<b>6356</b>
332	Modulators	232	21	31	21	33	36	21	33	48	39	24	41	35	27	32	25	37	21	21	25	29	18	<b>850</b>
333	Wave Transmission Lines and Networks	2203	241	214	185	256	248	204	265	235	218	214	339	346	358	309	471	589	537	513	480	397	427	<b>9249</b>
334	Tuners	90	1	3	4	0	0	2	2	1	0	0	4	4	1	2	4	2	1	3	4	1	2	<b>131</b>
335	Electricity: Magnetically Operated Switches, Magnets, and Electromagnets	1654	146	172	159	179	155	154	195	156	179	151	123	220	193	222	202	204	243	245	240	154	136	<b>5482</b>
336	Inductor Devices	631	49	73	53	49	41	55	68	66	76	48	110	102	127	136	179	203	184	243	222	205	185	<b>3105</b>
337	Electricity: Electrothermally or Thermally Actuated Switches	928	56	78	69	53	72	63	46	31	39	69	99	105	64	48	76	106	81	38	46	40	49	<b>2256</b>
338	Electrical Resistors	1038	110	110	112	104	84	92	106	49	67	63	86	118	103	100	105	80	52	50	97	69	47	<b>2842</b>
340	Communications: Electrical	5108	561	873	691	666	626	655	667	838	961	1073	1384	1395	1544	1433	1306	1088	1486	1490	2217	1723	1905	<b>29690</b>
341	Coded Data Generation or Conversion	1583	178	247	285	296	259	291	250	313	319	473	568	442	460	645	768	724	720	653	816	805	884	<b>11979</b>
342	Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)	2179	196	252	271	315	322	301	354	340	418	300	404	462	500	529	594	565	586	420	515	496	541	<b>10860</b>
343	Communications: Radio Wave Antennas	1523	208	264	171	184	178	234	207	217	262	250	306	555	608	759	779	594	610	779	893	730	810	<b>11121</b>
345	Computer Graphics Processing and Selective Visual Display Systems	1915	334	438	385	401	419	533	703	760	904	1053	1665	1569	1635	1875	1865	1883	2171	2004	2938	2487	2352	<b>30289</b>
346	Recorders	723	83	70	75	45	53	49	61	33	20	9	17	22	22	12	12	5	2	4	4	4	2	<b>1327</b>
347	Incremental Printing of Symbolic Information	2318	371	407	436	347	451	470	410	500	597	596	1049	1028	1414	1757	1881	1712	1578	1337	1485	1554	1831	<b>23529</b>
348	Television	5024	640	765	722	823	822	839	961	940	1042	860	1156	1097	1036	1015	1052	1069	1278	1098	1601	1370	1634	<b>26844</b>
349	Liquid Crystal Cells, Elements and Systems	823	161	207	176	206	273	237	244	257	385	375	601	509	653	621	628	859	1007	993	951	842	997	<b>12005</b>
351	Optics: Eye Examining, Vision Testing and Correcting	896	146	220	171	170	159	167	150	202	202	196	279	324	313	296	261	315	311	245	296	364	417	<b>6100</b>
352	Optics: Motion Pictures	489	9	11	23	28	25	15	10	12	21	23	18	26	21	20	18	26	36	21	23	17	12	<b>904</b>
353	Optics: Image Projectors	522	39	33	61	43	51	66	72	87	85	95	113	97	101	133	212	257	305	268	402	382	342	<b>3766</b>
355	Photocopying	1812	191	251	293	280	219	126	159	150	95	191	224	252	226	321	270	299	365	345	469	393	399	<b>7330</b>
356	Optics: Measuring and Testing	4243	536	611	526	631	613	590	665	767	708	729	1049	985	1033	707	882	1260	1219	1099	1384	1539	1665	<b>23441</b>
358	Facsimile and Static Presentation Processing	1520	287	401	448	414	474	525	630	587	724	635	915	779	744	677	717	790	825	915	1349	1289	1355	<b>17000</b>
359	Optical: Systems and Elements	4896	663	797	822	877	958	864	754	753	1064	1120	1604	1563	1652	1773	1842	1912	2088	2011	2373	2025	2065	<b>34476</b>
360	Dynamic Magnetic Information Storage or Retrieval	4186	610	844	596	694	629	705	764	781	702	754	1121	1143	1212	1120	1200	1251	1469	1129	1472	1137	1085	<b>24604</b>
361	Electricity: Electrical Systems and Devices	4709	626	770	657	593	789	715	702	854	973	852	1388	1293	1390	1610	1938	1890	1857	1454	1717	1893	2003	<b>30673</b>
362	Illumination	2736	391	457	463	517	516	401	431	539	531	537	649	670	882	968	980	1089	920	959	1263	1376	1200	<b>18475</b>
363	Electric Power Conversion Systems	1772	217	278	232	217	195	177	217	222	259	375	403	511	459	489	488	359	308	292	352	309	329	<b>8460</b>
365	Static Information Storage and Retrieval	2639	383	517	465	495	368	628	1014	922	1008	1138	1513	1760	1928	1979	1966	1953	2006	2017	2175	2295	2338	<b>31507</b>
366	Agitating	1774	170	218	190	136	112	142	193	175	225	160	213	214	204	243	191	205	180	163	147	157	182	<b>5594</b>
367	Communications, Electrical: Acoustic Wave Systems and Devices	1691	188	288	330	265	264	225	207	189	228	173	222	166	193	150	134	134	143	147	143	180	241	<b>5901</b>
368	Horology: Time Measuring Systems or Devices	1850	125	124	105	136	109	139	134	100	113	117	145	140	132	183	158	168	166	125	175	152	198	<b>4794</b>
369	Dynamic Information Storage or Retrieval	1941	269	394	277	414	539	599	555	641	720	722	926	789	792	832	866	932	941	737	1197	1169	1148	<b>17400</b>



Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
370	Multiplex Communications	2199	350	402	414	358	421	524	741	866	1037	907	1232	1514	1832	1941	2241	2574	2922	2745	3815	3178	4527	36740
372	Coherent Light Generators	1721	365	497	404	435	419	447	560	412	351	353	504	466	473	454	442	702	864	612	591	413	491	11976
373	Industrial Electric Heating Furnaces	704	38	42	27	21	35	58	45	51	55	27	36	72	56	36	42	30	29	14	24	13	11	1466
374	Thermal Measuring and Testing	1084	108	146	95	126	151	137	125	59	61	127	193	98	176	138	138	149	143	159	176	100	164	3853
375	Pulse or Digital Communications	1885	284	438	346	439	476	519	610	717	857	869	1242	1245	1345	1358	1462	1572	1677	1569	2396	2131	2289	25726
376	Induced Nuclear Reactions: Processes, Systems, and Elements	2223	298	278	200	246	297	299	294	185	171	137	185	156	82	115	110	110	94	83	36	28	40	5667
377	Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems	996	53	83	69	88	89	75	74	80	53	45	53	52	66	45	65	31	40	53	31	27	38	2206
378	X-Ray or Gamma Ray Systems or Devices	1958	186	261	263	323	285	258	218	279	313	275	316	269	379	534	600	451	429	466	632	564	610	9869
379	Telephonic Communications	2762	371	457	415	351	329	357	495	648	738	620	1046	1105	920	968	995	1055	1299	935	1254	903	706	18729
380	Cryptography	529	74	101	109	116	113	140	135	137	141	171	235	158	236	206	167	98	167	224	369	410	374	4410
381	Electrical Audio Signal Processing Systems and Devices	1616	148	204	166	186	182	223	205	257	287	331	510	326	363	278	321	400	493	369	625	518	465	8473
382	Image Analysis	1122	237	290	311	475	439	429	417	407	547	654	1320	1353	1243	1413	1241	1625	1782	1362	2302	2154	2427	23550
383	Flexible Bags	471	93	116	93	101	76	80	85	65	68	61	89	117	134	133	100	81	67	82	68	61	46	2287
384	Bearings	2108	199	239	252	246	221	215	208	227	258	196	258	266	268	311	305	299	266	240	256	214	210	7262
385	Optical Waveguides	2071	618	584	548	684	646	613	578	563	573	675	863	838	867	1322	1616	1900	2007	1917	1979	1816	1621	24899
386	Television Signal Processing for Dynamic Recording or Reproducing	1089	214	234	148	147	180	183	160	179	277	225	334	338	310	334	375	348	363	265	396	479	487	7065
388	Electricity: Motor Control Systems	402	30	40	29	23	13	15	24	22	21	19	18	25	21	11	15	9	14	5	13	10	14	793
392	Electric Resistance Heating Devices	566	61	72	61	62	71	76	79	71	55	66	91	117	131	129	108	80	87	119	125	99	58	2384
396	Photography	4550	367	421	457	478	450	487	531	483	694	752	967	728	673	522	571	475	440	218	228	188	364	15044
398	Optical Communications	500	102	122	109	151	137	120	225	212	261	200	298	338	292	339	407	441	393	306	616	650	598	6817
399	Electrophotography	2905	346	450	529	634	660	685	682	634	900	727	1064	1079	956	931	942	924	972	895	1175	1246	1301	20637
400	Typewriting Machines	2091	269	325	252	317	295	240	208	238	256	222	321	329	307	243	263	268	288	263	262	212	153	7622
401	Coating Implements with Material Supply	713	98	105	151	182	110	102	118	87	75	67	122	263	225	296	239	199	202	182	195	173	162	4066
402	Binder Device Releasably Engaging Aperture or Notch of Sheet	177	26	35	33	41	29	30	29	29	25	38	51	47	52	47	36	33	31	22	16	16	16	859
403	Joints and Connections	2002	156	177	259	231	221	183	159	170	223	253	271	199	242	296	295	271	243	162	142	101	132	6388
404	Road Structure, Process, or Apparatus	797	97	130	121	137	107	145	128	137	138	103	108	147	141	117	152	149	155	126	175	149	140	3599
405	Hydraulic and Earth Engineering	3138	278	347	350	390	333	382	287	270	366	269	388	353	290	291	344	333	301	251	330	209	243	9743
406	Conveyors: Fluid Current	723	57	76	57	69	57	58	25	22	51	35	42	31	49	65	68	48	30	21	33	28	27	1672
407	Cutters, for Shaping	425	30	36	47	76	61	70	39	26	40	49	77	83	84	72	39	77	81	63	73	58	65	1671
408	Cutting by Use of Rotating Axially Moving Tool	978	109	110	117	141	125	111	129	105	83	101	150	170	95	130	86	104	60	81	121	105	82	3293
409	Gear Cutting, Milling, or Planing	740	109	112	105	97	88	82	87	71	66	91	108	117	115	91	106	97	87	86	97	120	82	2754
410	Freight Accommodation On Freight Carrier	421	51	49	39	62	42	29	39	52	47	38	61	71	97	89	80	95	103	80	98	78	83	1804
411	Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener	1192	181	233	224	188	201	183	165	157	171	185	229	197	202	194	176	155	179	142	158	121	96	4929
412	Bookbinding: Process and Apparatus	108	12	13	21	28	28	22	23	22	16	26	20	25	37	26	26	22	19	13	8	9	13	537
413	Sheet Metal Container Making	141	6	14	7	10	13	8	8	1	6	10	11	16	7	3	7	10	12	8	7	4	6	315
414	Material or Article Handling	4587	464	441	491	537	454	435	453	465	478	410	452	482	572	406	464	434	391	290	301	238	225	13470
415	Rotary Kinetic Fluid Motors or Pumps	1460	214	206	170	144	235	244	219	186	234	167	189	189	275	301	380	384	329	363	396	337	285	6907
416	Fluid Reaction Surfaces (i.e., Impellers)	1337	153	162	109	105	155	192	168	158	168	139	131	160	236	238	287	223	212	189	256	269	237	5284
417	Pumps	3148	396	418	349	417	425	443	387	310	423	354	368	443	676	687	646	627	432	269	356	229	235	12038
418	Rotary Expansible Chamber Devices	1261	137	142	125	163	163	134	154	145	155	110	129	96	283	231	171	168	142	95	123	121	133	4381
419	Powder Metallurgy Processes	565	64	78	93	81	65	34	94	106	90	73	70	102	75	75	69	88	63	40	42	40	44	2051
420	Alloys or Metallic Compositions	1129	108	157	119	145	135	89	101	80	69	57	65	80	58	68	67	59	73	39	18	17	32	2765
422	Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing	3149	362	411	406	478	609	599	587	646	560	500	619	681	594	635	638	707	612	517	490	631	627	15058
423	Chemistry of Inorganic Compounds	6375	440	581	521	547	567	540	486	426	409	386	428	494	477	496	484	492	439	378	498	369	410	16243
424	Drug, Bio-Affecting and Body Treating Compositions	4862	692	1086	1012	1124	1186	1263	1252	1340	1563	2451	2865	3112	2732	3120	3193	3031	2147	1707	2162	1875	1824	45599

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
425	Plastic Article or Earthenware Shaping or Treating: Apparatus	3987	423	418	405	436	430	427	424	361	377	397	474	386	385	460	410	389	430	276	503	501	416	12715
426	Food or Edible Material: Processes, Compositions, and Products	4898	516	789	714	671	655	625	561	584	635	532	619	883	914	865	734	684	582	325	401	322	242	17751
427	Coating Processes	5613	601	676	602	724	749	695	830	781	782	873	966	1057	1089	961	1006	996	940	697	483	580	558	22259
428	Stock Material or Miscellaneous Articles	11886	1584	1844	1799	1698	1952	1833	1916	1981	2202	2357	2782	2990	2772	2955	3110	3221	3225	2277	1960	1873	1609	59826
429	Chemistry: Electrical Current Producing Apparatus, Product, and Process	2941	238	281	269	258	282	355	388	444	536	485	495	499	670	790	893	924	941	763	785	766	750	14753
430	Radiation Imagery Chemistry: Process, Composition, or Product Thereof	7621	826	1151	1180	1214	1049	1468	1588	1464	1429	1357	1653	1759	1817	1751	1628	1611	1518	1080	1328	1146	1108	36746
431	Combustion	1744	138	172	168	135	168	159	156	182	166	130	191	256	234	196	171	187	181	169	103	77	57	5140
432	Heating	1514	116	115	124	100	88	80	61	48	53	71	112	136	100	107	88	101	59	48	38	32	41	3232
433	Dentistry	1929	215	261	209	332	309	264	296	211	262	261	442	400	366	455	336	266	240	243	317	257	170	8041
434	Education and Demonstration	1395	133	165	134	145	155	234	192	181	203	172	286	275	288	227	248	269	258	224	182	144	109	5619
435	Chemistry: Molecular Biology and Microbiology	4763	701	926	932	970	1248	1503	1423	1498	2078	2838	4006	3984	3447	3929	3530	3089	2679	2396	3122	2927	2681	54670
436	Chemistry: Analytical and Immunological Testing	1939	218	271	204	229	289	342	290	317	323	319	455	464	364	408	438	438	408	338	314	394	418	9180
438	Semiconductor Device Manufacturing: Process	3711	533	618	603	802	893	1138	1233	1482	1406	1773	2298	3413	4483	5670	5475	5114	5119	4463	4799	4496	4526	64048
439	Electrical Connectors	5221	771	913	928	943	987	937	949	935	993	1201	1313	1665	2244	2232	1972	1712	1991	1806	2291	1938	2177	36119
440	Marine Propulsion	716	122	140	167	149	125	135	138	133	139	119	152	161	211	223	212	205	205	201	190	184	169	4196
441	Buoys, Rafts, and Aquatic Devices	488	72	88	75	63	72	63	94	81	75	82	94	85	94	92	82	90	82	78	101	85	65	2201
442	Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)	1157	127	190	140	118	139	174	169	176	167	178	217	222	222	170	116	171	198	105	101	109	127	4493
445	Electric Lamp or Space Discharge Component or Device Manufacturing	392	38	64	75	59	79	70	45	44	74	95	115	132	165	106	106	163	186	177	185	124	95	2589
446	Amusement Devices: Toys	1801	152	217	216	205	206	171	217	174	183	136	257	260	330	285	308	367	281	174	154	137	128	6359
449	Bee Culture	91	9	2	0	8	5	1	5	2	3	7	3	3	3	1	6	7	3	3	4	1	3	170
450	Foundation Garments	141	9	9	8	13	13	9	5	16	9	20	28	42	58	52	54	24	39	39	42	43	43	716
451	Abrading	2288	228	286	292	295	315	308	283	284	351	426	400	530	670	852	791	737	729	738	808	522	321	12454
452	Butchering	873	97	81	96	98	140	109	113	86	95	65	92	89	114	102	53	67	50	49	95	84	87	2735
453	Coin Handling	177	14	15	13	31	27	18	22	27	29	13	16	24	30	24	16	35	27	10	20	17	14	619
454	Ventilation	914	114	110	107	120	144	119	134	114	116	134	177	149	171	197	176	176	161	129	114	79	72	3727
455	Telecommunications	2093	209	233	248	291	327	412	464	582	779	642	1199	1542	1875	1818	1772	1780	2170	2279	4070	3504	3130	31419
460	Crop Threshing or Separating	259	17	22	32	23	25	18	23	32	37	18	33	34	30	33	41	31	44	42	38	33	26	891
462	Books, Strips, and Leaves for Manifolded	87	10	10	13	5	18	20	14	12	3	2	2	3	3	5	5	1	1	0	1	1	2	218
463	Amusement Devices: Games	439	34	63	45	59	63	75	82	89	91	129	228	201	238	354	351	455	422	372	315	318	413	4836
464	Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts	910	95	96	89	74	89	93	107	74	95	114	148	105	117	233	135	103	124	94	123	87	103	3208
470	Threaded, Headed Fastener, or Washer Making: Process and Apparatus	148	8	2	3	8	7	13	6	6	7	16	18	15	12	12	10	13	13	8	14	6	16	361
472	Amusement Devices	244	20	46	44	30	33	45	36	44	51	44	69	55	56	45	57	52	56	56	37	30	36	1186
473	Games Using Tangible Projectile	2211	249	390	408	458	468	445	582	617	582	578	795	638	562	597	627	666	610	583	718	640	534	13958
474	Endless Belt Power Transmission Systems or Components	1147	162	205	187	170	135	188	165	156	103	129	149	138	186	137	194	171	130	127	168	128	92	4367
475	Planetary Gear Transmission Systems or Components	980	143	171	140	164	177	147	138	141	160	173	168	260	213	144	214	311	303	237	311	343	281	5319
476	Friction Gear Transmission Systems or Components	105	5	6	16	18	13	13	12	12	22	16	13	25	38	35	36	36	25	30	32	29	21	558
477	Interrelated Power Delivery Controls, Including Engine Control	894	139	159	128	210	177	98	83	138	144	181	204	212	202	147	181	216	162	169	158	184	170	4356
482	Exercise Devices	1471	240	287	295	311	298	310	358	326	370	396	451	411	415	371	351	372	364	283	460	349	360	8849
483	Tool Changing	268	31	49	29	26	30	34	33	30	12	28	30	39	36	22	36	22	21	15	27	30	29	877
492	Roll or Roller	220	27	43	26	26	35	26	18	31	22	31	52	38	28	43	46	38	34	27	15	17	12	855
493	Manufacturing Container or Tube From Paper;	1163	74	120	95	147	180	135	97	95	114	89	154	149	171	137	88	151	147	120	103	86	136	3751

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
	or Other Manufacturing From a Sheet or Web																							
494	Imperforate Bowl: Centrifugal Separators	486	47	35	42	31	26	38	48	30	51	37	49	53	50	47	48	57	49	41	54	33	37	1389
501	Compositions: Ceramic	1376	194	279	256	386	323	323	316	235	226	216	211	241	207	228	229	227	195	158	180	149	136	6291
502	Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making	4138	336	411	407	464	521	447	358	317	313	283	369	389	478	414	437	401	385	365	346	337	283	12199
503	Record Receiver Having Plural Interactive Leaves or a Colorless Color Former, Method of Use, or Developer Therefor	534	106	145	153	152	179	182	207	145	121	115	112	125	83	79	56	55	67	49	57	44	40	2806
504	Plant Protecting and Regulating Compositions	2802	298	335	336	264	273	241	201	203	230	265	227	233	229	215	210	168	128	113	86	56	46	7159
505	Superconductor Technology: Apparatus, Material, Process	3	2	55	164	254	275	263	211	155	130	93	87	107	75	62	54	52	42	28	23	20	14	2169
506	Combinatorial Chemistry Technology: Method, Library, Apparatus	2	0	0	1	2	2	4	5	10	34	42	94	94	123	125	147	192	101	71	0	0	23	1072
507	Earth Boring, Well Treating, and Oil Field Chemistry	725	58	45	45	67	64	44	35	35	36	74	64	60	59	65	44	69	83	50	69	75	66	1932
508	Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separant Compositions for Moving Solid Surfaces, and Miscellaneous Mineral Oil Compositions	1602	182	193	179	192	184	201	220	188	196	179	203	183	188	210	156	176	130	70	60	68	76	5036
510	Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions	1970	222	297	223	261	233	236	256	350	370	348	556	618	522	592	618	544	436	310	367	273	274	9876
512	Perfume Compositions	382	32	24	32	27	27	30	35	18	28	19	23	14	30	27	23	27	21	16	30	34	18	917
514	Drug, Bio-Affecting and Body Treating Compositions	17160	1857	2537	2366	2557	2416	2602	2149	2553	2990	3681	3940	4068	4017	4194	4362	3939	3052	2784	3406	3220	2983	82833
516	Colloid Systems and Wetting Agents; Subcombinations Thereof; Processes Of	503	45	36	48	52	88	55	67	47	58	71	67	62	72	72	71	75	35	18	36	37	31	1646
518	Chemistry: Fischer-Tropsch Processes; or Purification or Recovery of Products Thereof	351	29	20	16	15	17	14	8	17	14	8	23	25	38	46	40	52	58	43	61	36	34	965
521	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	2585	229	215	206	222	302	267	231	213	210	228	268	217	248	241	237	237	190	115	85	85	56	6887
522	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	580	42	61	57	83	82	69	69	102	95	81	122	119	128	123	132	115	102	91	117	97	73	2540
523	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	2582	217	198	209	266	237	280	283	235	262	230	297	375	378	341	305	261	223	158	204	170	183	7894
524	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	7261	589	664	601	828	859	888	910	768	806	725	823	996	874	938	938	914	855	549	581	566	481	23414
525	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	5672	615	818	769	809	893	1057	1077	756	766	661	706	652	713	770	765	696	600	469	510	467	366	20607
526	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	2773	242	285	294	365	398	442	355	367	343	379	412	321	414	652	624	657	560	402	429	331	305	11350
527	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	99	8	12	9	18	15	15	6	6	4	8	13	7	5	4	3	3	2	4	4	0	3	248
528	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	4535	487	588	724	732	796	718	660	552	525	596	646	603	591	637	595	515	506	348	528	369	304	16555
530	Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof	1631	194	228	188	284	359	361	300	294	340	542	721	712	551	602	567	534	466	443	737	867	881	11802
534	Organic Compounds -- Part of the Class 532-570 Series	1046	75	86	116	111	92	102	89	82	115	84	110	77	61	53	53	40	39	31	55	28	30	2575
536	Organic Compounds -- Part of the Class 532-570 Series	1356	119	189	245	223	231	217	196	342	383	498	656	584	466	555	562	535	452	402	556	480	525	9772
540	Organic Compounds -- Part of the Class 532-570 Series	2319	146	155	170	137	139	174	134	158	198	187	168	157	126	131	136	91	70	70	116	71	91	5144
544	Organic Compounds -- Part of the Class 532-570 Series	2499	194	234	220	198	218	226	173	197	203	208	241	229	210	219	247	186	159	153	256	193	158	6821
546	Organic Compounds -- Part of the Class 532-570 Series	2348	205	215	223	188	219	247	224	233	218	269	214	257	236	231	265	256	192	207	271	233	293	7244
	Organic Compounds -- Part of the Class 532-																							

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
548	570 Series	2851	219	273	318	271	283	315	282	289	308	267	270	321	282	272	292	231	161	167	233	217	242	8364
549	Organic Compounds -- Part of the Class 532-570 Series	2988	166	286	249	249	279	319	264	237	234	274	244	280	284	244	328	230	222	170	196	155	169	8067
552	Organic Compounds -- Part of the Class 532-570 Series	766	29	53	49	42	59	40	37	46	49	40	40	47	34	39	53	29	27	22	22	17	11	1551
554	Organic Compounds -- Part of the Class 532-570 Series	804	42	48	46	46	68	79	74	89	63	49	75	98	71	110	113	70	64	56	60	35	30	2190
556	Organic Compounds -- Part of the Class 532-570 Series	1245	144	133	152	237	228	226	184	158	190	179	150	212	194	218	201	141	126	103	152	139	119	4831
558	Organic Compounds -- Part of the Class 532-570 Series	1865	126	169	149	128	161	175	121	136	129	128	148	135	134	130	137	111	93	62	81	62	67	4447
560	Organic Compounds -- Part of the Class 532-570 Series	2890	219	258	235	221	249	302	217	181	171	194	223	190	191	203	261	201	165	142	173	150	174	7210
562	Organic Compounds -- Part of the Class 532-570 Series	2293	185	204	207	196	210	242	195	166	149	156	215	205	196	189	231	202	169	133	179	165	220	6307
564	Organic Compounds -- Part of the Class 532-570 Series	1949	132	179	196	239	205	188	182	181	142	195	213	202	213	202	242	167	157	147	187	206	230	5954
568	Organic Compounds -- Part of the Class 532-570 Series	4088	248	310	339	358	354	344	321	307	209	233	378	308	276	390	392	293	251	223	287	241	234	10384
570	Organic Compounds -- Part of the Class 532-570 Series	464	82	97	77	74	90	81	81	87	68	71	113	80	79	99	69	40	44	41	63	52	41	1993
585	Chemistry of Hydrocarbon Compounds	2218	195	224	264	318	238	295	253	231	204	171	245	269	231	224	250	170	159	149	163	224	243	6938
588	Hazardous or Toxic Waste Destruction or Containment	497	43	43	39	17	31	49	71	91	109	81	86	71	60	50	60	46	15	20	28	22	20	1549
600	Surgery	3936	555	800	738	814	828	941	1092	1089	1011	1049	1641	1548	1776	1767	1937	2123	1581	1204	1326	1218	1105	30079
601	Surgery: Kinesitherapy	608	91	118	127	129	124	102	78	103	91	84	141	92	101	153	118	122	105	87	122	125	111	2932
602	Surgery: Splint, Brace, or Bandage	832	108	113	128	169	125	111	133	187	134	139	235	212	225	185	153	185	149	159	176	132	115	4105
604	Surgery	4059	643	793	819	839	966	980	1288	1189	1088	1094	1481	1353	1191	1247	1262	1717	1151	872	853	737	750	26372
606	Surgery	2095	346	376	421	537	613	666	836	881	923	1227	1466	1583	1602	1434	1245	1624	1128	904	1071	986	768	22732
607	Surgery: Light, Thermal, and Electrical Application	1205	150	177	217	211	225	252	341	354	330	322	524	458	517	569	579	609	532	512	698	703	475	9960
623	Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor	1165	193	240	277	242	304	217	282	233	348	347	452	512	609	724	708	773	721	523	635	541	453	10499
700	Data Processing: Generic Control Systems or Specific Applications	1733	272	404	306	339	320	389	450	376	461	350	662	539	467	662	843	1022	1127	998	1304	971	899	14894
701	Data Processing: Vehicles, Navigation, and Relative Location	1145	201	357	333	391	288	294	329	416	430	330	511	681	824	1251	1266	1195	1209	1175	1081	1137	1147	15991
702	Data Processing: Measuring, Calibrating, or Testing	1156	195	305	259	236	182	224	287	217	367	347	518	511	517	571	951	1288	1510	1482	1704	1514	1406	15747
703	Data Processing: Structural Design, Modeling, Simulation, and Emulation	112	36	47	44	62	50	56	91	111	155	224	297	300	286	273	180	167	263	372	642	478	508	4754
704	Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression	614	99	178	165	160	160	187	187	157	210	366	611	628	534	610	572	427	531	426	855	768	805	9250
705	Data Processing: Financial, Business Practice, Management, or Cost/Price Determination	414	83	128	100	95	89	164	171	119	155	247	493	719	729	480	451	431	312	775	1260	1168	1692	10275
706	Data Processing: Artificial Intelligence	26	18	41	75	62	120	171	153	181	163	202	306	128	130	155	168	250	157	206	244	203	349	3508
707	Data Processing: Database and File Management or Data Structures	162	23	57	54	57	88	150	178	257	365	421	967	1041	904	1005	1334	1409	1494	1234	1892	1758	1965	16815
708	Electrical Computers: Arithmetic Processing and Calculating	1534	237	351	246	244	249	301	275	236	277	261	386	402	297	291	255	257	286	230	362	236	303	7516
709	Electrical Computers and Digital Processing Systems: Multicomputer Data Transferring	166	40	38	49	55	82	111	129	162	330	305	941	1004	1152	1138	1232	1165	1566	1571	2415	2341	2676	18668
710	Electrical Computers and Digital Data Processing Systems: Input/Output	1006	128	176	157	163	219	288	335	358	580	641	1009	1060	1012	907	864	979	1263	954	1143	812	915	14969
711	Electrical Computers and Digital Processing Systems: Memory	948	133	163	152	137	217	257	359	404	566	576	856	847	892	1007	1176	1257	1315	1289	1726	1467	1734	17478
	Electrical Computers and Digital Processing																							

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
712	Systems: Processing Architectures and Instruction Processing (e.g., Processors)	606	110	125	122	114	162	150	178	258	357	402	666	667	490	502	372	309	371	336	375	351	425	7448
713	Electrical Computers and Digital Processing Systems: Support	266	48	67	69	74	95	142	174	241	286	337	584	580	532	604	566	677	824	979	1643	1644	1854	12286
714	Error Detection/Correction and Fault Detection/Recovery	1782	268	355	299	283	361	377	488	664	756	708	1069	1041	986	982	956	1268	1266	1173	1777	1878	1947	20684
715	Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing	223	65	89	83	80	127	147	210	263	371	428	690	705	670	676	637	634	617	732	1026	1014	1018	10505
716	Data Processing: Design and Analysis of Circuit or Semiconductor Mask	72	20	43	38	33	43	73	87	129	188	191	269	246	235	405	545	803	644	605	932	804	874	7279
717	Data Processing: Software Development, Installation, and Management	35	15	20	16	16	33	53	96	117	126	128	308	406	372	507	334	343	416	467	752	707	707	5974
718	Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control	91	22	21	23	20	37	46	83	88	57	79	105	97	102	123	113	118	179	180	255	187	219	2245
719	Electrical Computers and Digital Processing Systems: Interprogram Communication or Interprocess Communication (Ipc)	7	6	1	4	6	11	18	33	52	58	56	107	90	91	159	147	120	242	234	288	177	330	2237
720	Dynamic Optical Information Storage or Retrieval	156	48	59	28	65	81	62	47	41	86	77	133	152	100	164	185	171	200	221	270	233	257	2836
725	Interactive Video Distribution Systems	207	35	28	33	37	38	47	66	72	165	153	254	241	175	203	165	206	225	171	354	261	231	3367
726	Information Security	25	4	7	17	10	13	15	23	20	43	55	113	190	218	206	137	135	222	227	505	613	707	3505
800	Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes	58	20	18	12	26	41	33	90	86	235	266	453	579	547	571	464	447	535	459	687	802	685	7114
SUBTOTAL	UTILITY CLASSES	719574	78333	96011	90877	96918	97921	98815	102109	101855	110032	112338	147876	153984	158119	166584	167833	169475	164607	144070	174316	157812	158424	3467883
D00	** Design Classification Undetermined **	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
D01	Edible Products	108	24	17	34	58	79	50	35	35	55	42	46	47	61	60	39	36	120	85	121	53	62	1267
D02	Apparel and Haberdashery	1289	253	223	233	272	344	447	426	316	343	499	706	587	494	489	486	528	583	488	889	969	1122	11986
D03	Travel Goods and Personal Belongings	1505	145	130	279	322	283	330	339	340	357	369	443	492	484	530	507	487	463	415	631	641	624	10116
D04	Brushware	355	44	39	68	74	74	111	87	138	120	99	127	113	161	175	247	184	122	146	178	137	213	3012
D05	Textile or Paper Yard Goods; Sheet Material	172	20	26	12	23	9	13	7	30	22	33	45	45	80	72	46	39	68	86	88	75	68	1079
D06	Furnishings	5747	628	507	649	833	872	1242	1012	1310	1336	1112	1472	1480	1713	1828	1586	1565	1536	1175	1620	2098	1914	33235
D07	Equipment for Preparing or Serving Food or Drink Not Elsewhere Specified	3253	329	354	434	421	446	607	601	558	725	577	744	767	964	1012	791	990	895	725	1145	1414	1453	19205
D08	Tools and Hardware	3061	418	449	520	609	695	740	747	754	755	748	1012	990	1235	993	943	1117	1047	793	1399	1567	1673	22265
D09	Packages and Containers for Goods	2627	220	228	467	529	410	476	499	518	485	537	655	690	869	864	712	900	670	724	1121	1406	1354	16961
D10	Measuring, Testing, or Signalling Instruments	2212	203	245	380	572	476	510	584	692	470	522	695	656	646	708	607	495	524	494	677	751	927	14046
D11	Jewelry, Symbolic Insignia, and Ornaments	1673	89	167	180	246	218	308	286	380	333	376	411	338	348	431	382	372	371	334	462	468	537	8710
D12	Transportation	2930	355	437	547	557	539	664	661	593	680	799	1023	939	1187	1067	1061	1080	1275	953	1440	1481	1619	21887
D13	Equipment for Production, Distribution, or Transformation of Energy	971	117	146	221	330	319	268	300	303	285	281	443	593	624	551	634	674	538	574	999	1076	1337	11584
D14	Recording, Communication, or Information Retrieval Equipment	3298	478	519	728	793	657	865	946	1001	1000	980	1243	1312	1563	1361	1418	1709	1708	1266	2373	2798	3325	31341
D15	Machines Not Elsewhere Specified	1529	164	153	217	143	266	283	220	303	239	220	318	314	404	387	410	400	416	324	609	656	590	8565
D16	Photography and Optical Equipment	846	91	73	160	167	186	176	212	203	262	241	392	344	434	350	278	407	303	293	393	692	577	7080
D17	Musical Instruments	342	29	20	68	81	46	41	64	38	33	39	55	61	33	43	42	49	36	46	64	60	104	1394
D18	Printing and Office Machinery	1204	137	123	208	280	180	208	185	208	214	203	199	199	272	276	205	227	187	154	445	407	288	6009
D19	Office Supplies; Artists` and Teachers` Materials	1072	103	134	193	246	268	281	219	289	177	226	308	340	374	381	334	345	392	328	341	448	586	7385
D20	Sales and Advertising Equipment	405	57	29	83	104	74	107	125	102	73	137	160	121	171	135	91	163	121	110	115	127	121	2731
D21	Games, Toys, and Sports Goods	4237	404	528	581	761	699	670	860	877	729	742	1017	921	1025	881	745	782	695	600	993	977	1073	20797
D22	Arms, Pyrotechnics, Hunting and Fishing Equipment	848	99	153	93	88	146	129	159	165	187	131	165	180	174	154	160	180	148	145	191	179	176	4050

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
D23	Environmental Heating and Cooling; Fluid Handling and Sanitary Equipment	2534	326	249	391	593	523	440	564	564	531	548	784	818	987	906	967	920	832	789	1557	1342	1445	18610
D24	Medical and Laboratory Equipment	2421	256	303	258	367	423	432	479	512	483	454	523	575	673	760	598	698	572	352	554	962	1041	13696
D25	Building Units and Construction Elements	1192	76	165	149	149	147	236	249	258	255	292	306	340	376	380	406	350	344	310	305	427	458	7170
D26	Lighting	1233	156	198	199	306	281	259	356	375	464	430	531	543	804	920	705	772	672	491	859	1163	1322	13039
D27	Tobacco and Smokers' Supplies	330	25	16	23	25	8	17	31	31	38	38	79	87	60	76	86	62	72	59	106	117	74	1460
D28	Cosmetic Products and Toilet Articles	917	116	152	241	147	103	127	199	147	152	159	197	211	388	334	255	274	256	188	294	317	330	5504
D29	Equipment for Safety, Protection, and Rescue	249	34	28	58	46	50	66	76	93	90	77	68	86	85	82	105	71	97	62	124	149	155	1951
D30	Animal Husbandry	508	71	46	60	89	93	124	130	123	128	125	105	107	184	116	114	121	108	131	166	189	213	3051
D32	Washing, Cleaning, or Drying Machine	701	103	99	157	174	110	130	187	191	176	194	211	193	287	260	256	286	251	171	404	505	473	5519
D34	Material or Article Handling Equipment	594	94	110	110	140	201	217	205	196	170	130	215	190	183	200	194	208	170	94	254	377	278	4530
D99	Miscellaneous	232	17	26	24	24	44	59	46	70	44	55	69	61	73	96	48	88	104	50	55	38	48	1371
SUBTOTAL	DESIGN CLASSES	50595	5681	6092	8025	9569	9269	10633	11096	11713	11411	11415	14767	14740	17416	16878	15458	16579	15696	12955	20972	24069	25580	340609
PLT	Plants	2068	425	587	318	353	321	442	499	387	362	394	561	421	548	584	1133	994	1016	716	1149	1047	1240	15565
SUBTOTAL	PLANT CLASSES	2068	425	587	318	353	321	442	499	387	362	394	561	421	548	584	1133	994	1016	716	1149	1047	1240	15565
TOTAL	ALL CLASSES	772237	84439	102690	99220	106840	107511	109890	113704	113955	121805	124147	163204	169145	176083	184046	184424	187048	181319	157741	196437	182928	185244	3824057

**Patent Counts By Class By Year**  
**PART A1**  
 Granted: 01/01/1977 - 12/31/2008  
 A Patent Technology Monitoring Team Report

**Part A1-2. Patent Counts By Class By Year**  
**Patent Counts Based on ORIGINAL And CROSS-REFERENCE Classifications**  
**with Duplicate Patents Eliminated Within Classes**

Number of Patents Granted as Distributed by Year of Patent Grant,  
 Breakout by U.S. Patent Classification System Class

Table A1-2, Breakout by U.S. Patent Classification System Class  
 Patent Counts Distributed by Year of Patent Grant  
 Patents Granted: 01/01/1977 - 12/31/2008

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
001	** Classification Undetermined **	4	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	9	7	15	7	46
002	Apparel	2732	307	414	384	572	484	380	425	474	570	602	723	806	749	703	655	494	565	493	531	376	316	13755
004	Baths, Closets, Sinks, and Spittoons	2528	279	349	380	409	341	389	419	338	312	331	418	538	454	479	514	433	406	322	309	267	216	10431
005	Beds	2688	352	418	444	467	468	400	394	412	488	446	504	483	522	502	470	492	522	502	484	346	416	12220
007	Compound Tools	386	45	64	55	68	49	73	64	53	62	62	72	84	96	101	72	76	89	73	85	71	50	1850
008	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	3802	354	419	378	387	310	352	325	337	377	275	394	457	381	334	311	387	321	219	298	303	263	10984
012	Boot and Shoe Making	407	27	28	32	19	17	24	21	17	15	24	29	33	20	22	19	23	19	23	23	14	21	877
014	Bridges	441	41	47	45	56	48	37	47	64	59	58	59	61	65	45	73	62	73	55	65	53	46	1600
015	Brushing, Scrubbing, and General Cleaning	5103	591	703	622	720	636	621	716	688	687	644	878	986	983	892	779	829	693	546	540	596	565	20018
016	Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, Etc.)	2640	310	413	271	338	284	326	301	327	398	339	450	427	436	411	516	494	427	389	413	351	338	10599
019	Textiles: Fiber Preparation	929	62	107	125	151	89	72	93	99	84	77	72	72	87	109	69	53	36	27	39	27	39	2518
023	Chemistry: Physical Processes	594	35	41	35	45	62	37	52	38	34	28	38	31	38	33	32	30	17	25	18	17	15	1295
024	Buckles, Buttons, Clasps, Etc.	4386	453	542	565	547	496	468	522	483	517	580	599	589	562	600	652	610	459	352	451	410	421	15264
026	Textiles: Cloth Finishing	425	30	50	45	37	37	25	21	42	36	29	35	39	30	24	22	24	16	13	9	14	7	1010
027	Undertaking	105	11	15	16	15	16	16	17	23	19	37	33	30	30	32	18	32	19	14	15	42	35	590
028	Textiles: Manufacturing	1208	86	109	123	91	112	90	118	120	81	94	106	99	131	95	86	83	94	54	65	68	52	3165
029	Metal Working	15481	1843	2142	1753	2010	1944	1969	1878	1699	1757	1822	2170	2151	2363	2523	2542	2644	2522	2198	2514	2105	1751	59781
030	Cutlery	3239	312	443	396	505	382	337	362	358	374	362	438	475	471	431	409	432	392	332	338	298	228	11314
033	Geometrical Instruments	4775	400	493	559	565	536	429	418	481	433	363	446	408	493	514	595	577	546	534	530	519	517	15131
034	Drying and Gas or Vapor Contact with Solids	3314	277	278	287	301	333	356	319	292	357	326	361	424	467	356	361	285	299	264	286	173	208	9924
036	Boots, Shoes, and Leggings	1646	191	236	243	183	157	183	203	225	197	236	344	352	307	283	266	247	272	235	257	203	242	6708
037	Excavating	1461	107	156	139	145	147	128	94	133	152	129	165	186	211	182	208	168	167	161	153	101	79	4572
038	Textiles: Ironing or Smoothing	381	35	46	45	54	42	26	50	43	48	54	48	55	55	41	46	38	47	30	46	41	32	1303
040	Card, Picture, or Sign Exhibiting	3301	343	463	394	463	371	404	445	456	421	434	506	556	611	561	573	570	501	389	351	379	350	12842
042	Firearms	1218	123	164	160	191	127	135	163	178	159	186	203	183	124	213	241	252	207	159	162	175	187	4910
043	Fishing, Trapping, and Vermin Destroying	2320	299	470	333	291	314	326	331	251	317	219	234	410	355	289	307	350	274	232	216	184	173	8495
044	Fuel and Related Compositions	1993	153	170	111	139	123	136	143	129	147	107	132	152	169	146	115	143	108	76	53	83	89	4617
047	Plant Husbandry	1853	183	221	235	244	241	226	273	272	345	296	469	325	351	305	306	283	186	159	157	124	97	7151
048	Gas: Heating and Illuminating	1640	85	128	91	52	49	55	48	69	46	61	67	71	57	57	40	46	72	63	87	112	111	3107
049	Movable or Removable Closures	3035	286	405	366	390	316	315	334	344	395	336	378	439	495	430	425	392	377	362	380	257	230	10687
051	Abrasive Tool Making Process, Material, or Composition	654	61	74	97	96	133	136	122	100	124	153	96	126	104	145	159	145	139	106	91	102	90	3053
052	Static Structures (e.g., Buildings)	10181	947	1205	1146	1098	985	1009	1046	1007	1203	1201	1467	1416	1471	1598	1488	1297	1202	1025	902	733	669	34296
053	Package Making	4359	480	546	536	568	498	467	421	564	549	598	763	608	641	574	543	620	594	508	469	368	508	15782

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
054	Harness for Working Animal	169	22	20	18	30	36	22	26	24	18	17	36	23	42	32	46	50	40	24	38	38	31	802
055	Gas Separation	3446	350	396	365	356	438	395	285	318	330	354	451	441	421	464	449	467	478	376	385	381	453	11799
056	Harvesters	2668	252	261	325	283	243	226	226	263	218	167	280	308	299	247	273	257	246	246	221	171	210	7890
057	Textiles: Spinning, Twisting, and Twining	2503	201	237	225	139	198	173	213	188	178	177	214	158	153	175	134	104	118	79	95	68	79	5809
059	Chain, Staple, and Horseshoe Making	373	26	34	32	28	29	32	39	32	17	33	38	37	36	53	44	39	34	47	53	37	46	1139
060	Power Plants	8865	795	864	772	802	950	917	921	888	781	757	1019	997	1032	1331	1298	1226	1256	1269	1431	1058	1021	30250
062	Refrigeration	6433	711	749	770	779	789	914	887	855	864	870	1030	1141	1154	1292	1347	1293	1073	891	1025	1017	783	26667
063	Jewelry	350	60	46	48	54	64	56	46	58	62	75	69	53	67	63	82	79	61	40	69	54	53	1609
065	Glass Manufacturing	3541	312	381	320	311	343	277	263	174	203	298	343	357	277	324	313	346	342	226	257	184	172	9564
066	Textiles: Knitting	1182	116	116	51	111	96	100	105	111	123	88	101	106	167	152	82	88	89	99	95	76	64	3318
068	Textiles: Fluid Treating Apparatus	1212	122	141	117	115	102	144	124	132	136	127	193	200	152	114	143	147	82	74	78	109	140	3904
069	Leather Manufactures	133	7	7	5	10	3	2	3	5	5	4	6	4	2	2	2	2	5	7	0	2	2	218
070	Locks	2542	295	364	338	352	280	303	270	311	319	343	462	457	391	323	427	420	333	328	328	277	285	9748
071	Chemistry: Fertilizers	938	61	80	60	68	94	73	78	93	75	100	89	87	64	97	112	70	60	46	37	32	33	2447
072	Metal Deforming	5846	570	616	572	589	512	483	478	406	497	541	665	685	626	649	538	534	506	412	614	503	417	17259
073	Measuring and Testing	17146	1781	2261	2059	2057	1932	1930	2113	2050	2219	2018	2458	2355	2305	2492	2636	3065	2764	2763	2933	2749	2759	66845
074	Machine Element or Mechanism	9636	1051	1272	1063	1061	1049	1093	867	816	1000	910	1198	1191	1172	1153	1126	989	894	772	830	755	675	30573
075	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures	3713	375	376	389	350	341	339	364	367	261	247	319	375	322	381	393	319	263	192	162	181	181	10210
076	Metal Tools and Implements, Making	705	70	83	50	82	83	69	58	68	56	66	61	76	71	58	52	64	42	28	41	37	31	1951
079	Button Making	5	1	0	0	0	0	1	2	0	0	0	0	1	1	0	3	1	1	1	2	0	0	19
081	Tools	2361	319	353	316	345	301	307	305	250	310	263	325	410	494	545	423	351	368	420	523	417	281	9987
082	Turning	1287	116	128	111	144	130	119	98	68	89	101	127	124	112	122	91	167	94	72	85	82	66	3533
083	Cutting	5304	434	493	516	566	563	504	469	424	373	376	523	576	562	497	394	481	526	376	472	349	265	15043
084	Music	2894	209	264	277	291	297	354	348	398	393	344	428	506	444	410	360	328	322	290	379	434	472	10442
086	Ammunition and Explosive-Charge Making	286	26	34	25	27	33	26	32	30	17	25	34	21	20	24	32	29	17	25	23	20	22	828
087	Textiles: Braiding, Netting, and Lace Making	138	23	19	25	24	13	17	24	17	15	15	23	26	13	13	16	12	9	3	15	15	7	482
089	Ordnance	1811	181	207	253	224	236	199	193	197	141	192	200	183	129	211	205	203	206	180	168	183	217	5919
091	Motors: Expansible Chamber Type	3576	348	331	270	288	316	299	253	214	230	194	253	239	210	219	224	198	206	151	159	173	124	8475
092	Expansible Chamber Devices	2855	348	356	278	356	272	290	226	234	224	220	287	291	246	310	314	280	234	206	214	216	173	8430
095	Gas Separation: Processes	2157	276	275	261	281	358	320	243	270	288	302	362	383	368	394	402	448	347	288	307	299	374	9003
096	Gas Separation: Apparatus	2959	333	352	348	355	386	325	264	240	298	329	394	432	416	424	467	464	431	343	346	374	438	10718
099	Foods and Beverages: Apparatus	3224	383	464	438	400	391	427	451	493	465	489	530	608	567	561	452	441	404	317	366	274	294	12439
100	Presses	2725	260	266	256	275	309	272	266	253	224	228	286	224	210	204	188	226	207	164	209	151	190	7593
101	Printing	4557	377	483	430	477	487	463	472	477	478	497	724	609	587	544	610	718	804	489	491	300	286	15360
102	Ammunition and Explosives	2419	277	306	300	358	276	279	259	268	221	227	241	208	187	312	279	301	216	201	201	171	197	7704
104	Railways	1582	160	176	175	154	173	150	123	152	143	160	128	107	120	144	172	153	115	82	84	78	95	4426
105	Railway Rolling Stock	1631	114	144	126	130	126	120	113	124	122	123	134	95	111	152	137	117	79	93	83	72	77	4023
106	Compositions: Coating or Plastic	7235	640	658	565	728	772	790	916	796	782	777	1024	1005	889	911	977	1011	944	634	694	716	644	24108
108	Horizontally Supported Planar Surfaces	1965	230	297	238	211	247	198	279	281	296	299	342	330	375	306	306	289	276	211	214	166	155	7511
109	Safes, Bank Protection, or a Related Device	438	47	55	46	45	30	36	35	39	27	41	53	44	30	25	37	31	27	26	27	26	28	1193
110	Furnaces	2362	271	262	255	253	224	268	264	185	209	199	243	181	179	190	147	98	120	111	79	56	65	6221
111	Planting	699	71	38	61	51	51	40	57	61	74	64	60	87	82	99	67	82	74	66	69	65	71	2089
112	Sewing	2632	196	224	189	241	195	198	161	184	226	201	236	214	185	179	109	89	132	112	112	89	94	6198
114	Ships	3592	388	441	421	435	370	377	379	368	374	357	388	412	487	456	407	439	394	431	449	389	353	12107
116	Signals and Indicators	2012	198	224	215	233	175	201	205	182	192	195	206	224	208	215	211	196	193	154	181	138	155	6113
117	Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non-Coating Apparatus Therefor	1242	118	153	152	151	203	219	236	278	222	212	280	317	324	274	270	283	269	240	245	293	296	6277
118	Coating Apparatus	5016	484	630	591	654	665	692	677	665	709	722	868	961	1200	1211	1127	1063	935	755	659	525	570	21379



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119	Animal Husbandry	2271	234	265	311	391	399	341	355	313	348	362	553	501	469	447	540	532	396	407	442	380	285	10542
122	Liquid Heaters and Vaporizers	2011	186	231	199	155	134	145	185	123	128	107	164	154	143	143	123	118	102	97	82	63	82	4875
123	Internal-Combustion Engines	13049	1272	1445	1490	1526	1472	1400	1136	1124	1352	1381	1629	1622	1810	2246	2247	2240	2241	2114	2316	2042	1889	49043
124	Mechanical Guns and Projectors	852	91	135	121	115	125	127	128	148	136	160	137	135	124	108	118	161	179	110	109	122	115	3556
125	Stone Working	481	45	58	68	56	56	49	38	42	45	54	66	64	101	98	97	83	74	79	88	52	48	1842
126	Stoves and Furnaces	6557	393	418	391	335	306	340	350	331	331	305	391	513	466	386	323	329	319	298	214	157	134	13587
127	Sugar, Starch, and Carbohydrates	574	42	56	38	54	55	44	51	54	50	40	56	74	39	44	59	34	34	26	25	18	11	1478
128	Surgery	3925	382	682	646	760	686	741	866	873	938	954	1213	1059	1139	1035	1090	1247	1062	878	1020	837	673	22706
131	Tobacco	1850	172	170	180	183	185	118	108	111	116	116	163	107	123	79	85	88	109	56	45	65	41	4270
132	Toilet	1204	121	177	175	205	177	154	208	152	206	219	313	405	306	258	218	211	147	109	160	186	135	5446
134	Cleaning and Liquid Contact with Solids	3327	384	493	425	550	534	530	570	613	615	610	781	922	815	850	895	920	712	563	533	495	476	16613
135	Tent, Canopy, Umbrella, or Cane	748	103	167	126	129	119	151	181	149	171	179	198	181	196	251	204	168	189	149	143	161	140	4203
136	Batteries: Thermoelectric and Photoelectric	2164	204	204	152	172	166	164	154	176	170	134	139	177	235	275	254	223	177	116	107	126	116	5805
137	Fluid Handling	12568	1184	1427	1299	1268	1268	1242	1242	1067	1034	1006	1305	1465	1489	1607	1243	1200	1159	1173	1168	866	754	38034
138	Pipes and Tubular Conduits	3889	354	375	321	338	257	268	319	335	286	278	361	458	467	423	378	362	326	296	283	201	194	10769
139	Textiles: Weaving	1671	147	173	167	177	189	165	173	177	146	137	155	136	179	188	127	64	109	112	129	67	71	4659
140	Wireworking	806	68	57	65	50	64	48	49	53	60	62	65	69	53	50	36	49	37	35	54	41	36	1907
141	Fluent Material Handling, with Receiver or Receiver Coacting Means	2786	280	372	325	332	332	348	381	344	370	319	407	487	442	478	452	424	485	391	376	318	225	10674
142	Wood Turning	54	3	1	7	8	6	5	4	4	5	6	4	10	8	4	0	5	2	0	3	2	0	141
144	Woodworking	1862	158	198	188	200	204	140	167	157	132	154	177	230	199	188	174	187	152	121	170	125	111	5394
147	Coopering	6	0	1	0	0	0	0	0	2	0	2	1	0	0	4	2	0	0	1	0	0	0	19
148	Metal Treatment	5553	591	794	766	858	937	969	935	924	791	737	777	777	704	770	752	757	601	387	348	302	334	20364
149	Explosive and Thermic Compositions or Charges	1053	64	75	92	104	54	60	45	101	123	78	87	61	101	99	68	97	59	77	35	7	17	2557
150	Purses, Wallets, and Protective Covers	256	47	66	84	80	67	66	65	63	66	71	96	100	97	99	81	72	59	49	54	46	43	1727
152	Resilient Tires and Wheels	1615	174	211	174	164	164	210	228	189	156	167	196	196	254	262	317	309	236	219	250	218	180	6089
156	Adhesive Bonding and Miscellaneous Chemical Manufacture	12861	1304	1545	1494	1364	1410	1472	1464	1490	1434	1596	1912	1991	1912	1901	1807	2048	1868	1464	1319	1173	1042	45871
157	Wheelwright Machines	196	25	23	14	20	18	23	15	8	9	11	9	11	19	28	11	18	11	21	24	25	20	559
159	Concentrating Evaporators	767	58	59	67	51	70	75	56	49	62	66	54	54	30	38	47	39	38	40	32	22	28	1802
160	Flexible or Portable Closure, Partition, or Panel	1649	202	278	250	284	279	245	227	233	302	256	302	309	385	356	304	316	294	255	255	208	167	7356
162	Paper Making and Fiber Liberation	2720	276	323	368	318	384	375	334	355	413	442	502	454	493	580	560	417	396	307	299	281	269	10866
163	Needle and Pin Making	24	3	3	2	3	1	5	4	9	5	8	7	6	4	0	1	2	0	0	0	2	3	92
164	Metal Founding	3253	362	358	335	333	266	344	351	239	256	274	312	317	233	287	341	372	267	259	281	221	133	9394
165	Heat Exchange	7445	629	666	634	626	640	662	675	567	613	524	739	861	863	955	903	889	929	866	1068	893	841	23488
166	Wells	5778	513	615	529	584	577	567	689	526	452	377	536	600	694	838	709	790	848	690	1055	951	930	19848
168	Farriery	63	9	11	12	17	15	14	10	2	10	12	10	8	13	11	18	17	13	11	4	8	7	295
169	Fire Extinguishers	628	45	73	73	77	91	62	60	60	81	74	94	117	124	80	85	78	80	76	88	76	69	2291
171	Unearthing Plants or Buried Objects	218	7	15	15	12	19	22	17	15	14	9	11	13	11	5	5	10	8	7	9	4	3	449
172	Earth Working	2492	159	229	216	174	140	141	141	193	186	168	215	198	242	212	183	170	144	151	174	98	72	6098
173	Tool Driving or Impacting	1552	105	164	108	142	132	88	112	94	114	94	123	138	163	148	125	162	179	153	199	148	175	4418
174	Electricity: Conductors and Insulators	6182	712	840	687	728	744	779	878	874	816	675	1082	1096	1271	1727	1763	1546	1514	1243	1284	1176	1169	28786
175	Boring or Penetrating the Earth	3157	283	343	286	310	307	276	338	289	290	232	331	355	411	467	462	463	398	365	474	425	441	10703
177	Weighing Scales	1528	141	203	128	110	137	131	112	77	73	95	148	131	97	105	126	116	120	106	130	105	108	4027
178	Telegraphy	782	69	88	60	62	57	65	41	64	93	69	100	88	64	81	85	99	98	98	130	129	97	2519
180	Motor Vehicles	5729	734	891	739	822	743	686	731	625	789	638	878	968	1027	1186	1293	1316	1167	1172	1166	1109	1194	25603
181	Acoustics	2483	250	336	283	247	263	236	235	234	213	215	312	313	316	268	296	360	308	239	210	209	258	8084
182	Fire Escape, Ladder, or Scaffold	1839	189	193	205	223	237	138	193	149	152	152	214	253	237	187	218	193	218	186	202	142	91	5811
184	Lubrication	1006	128	136	181	162	126	144	133	132	150	116	138	150	159	167	152	142	129	114	133	100	100	3898
185	Motors: Spring, Weight, or Animal Powered	194	13	16	9	6	12	12	7	7	10	8	7	15	13	16	11	9	14	8	7	8	4	406

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186	Merchandising	112	15	9	17	22	24	17	17	21	20	12	21	27	22	13	19	23	16	16	17	14	14	488
187	Elevator, Industrial Lift Truck, or Stationary Lift for Vehicle	1089	119	96	100	157	152	152	163	140	146	140	187	212	149	172	212	157	91	87	137	159	158	4175
188	Brakes	4827	535	630	468	501	489	473	483	536	524	425	525	603	591	771	709	519	453	482	451	379	382	15756
190	Trunks and Hand-Carried Luggage	384	63	78	63	77	70	65	49	77	92	70	87	98	91	104	98	96	56	59	54	51	47	1929
191	Electricity: Transmission To Vehicles	320	25	23	19	29	28	26	33	19	28	34	33	41	42	60	48	31	28	25	25	14	13	944
192	Clutches and Power-Stop Control	4595	439	585	524	580	535	398	347	311	433	454	489	593	580	502	467	504	474	357	408	310	282	14167
193	Conveyors, Chutes, Skids, Guides, and Ways	639	56	47	49	49	60	44	35	49	36	39	32	59	63	68	57	51	40	39	41	46	36	1635
194	Check-Actuated Control Mechanisms	634	53	84	68	82	72	76	81	105	104	74	80	117	112	95	54	79	69	72	62	47	42	2262
196	Mineral Oils: Apparatus	255	17	20	13	16	14	19	11	11	11	12	26	22	10	18	13	9	7	5	6	7	8	530
198	Conveyors: Power-Driven	6110	681	733	710	740	790	691	703	586	534	541	577	693	686	816	714	699	616	466	492	500	457	19535
199	Type Casting	0	0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
200	Electricity: Circuit Makers and Breakers	6289	556	586	549	513	468	451	475	453	489	465	673	637	606	529	584	615	655	566	622	525	524	17830
201	Distillation: Processes, Thermolytic	985	24	34	24	18	27	16	19	26	10	21	25	20	19	21	7	9	14	8	18	5	12	1362
202	Distillation: Apparatus	1555	82	86	82	74	74	97	72	74	77	82	91	77	76	59	58	51	43	40	48	37	48	2983
203	Distillation: Processes, Separatory	1630	125	134	150	127	182	190	143	142	118	126	144	141	104	81	127	82	68	73	80	65	61	4093
204	Chemistry: Electrical and Wave Energy	9131	772	1048	993	872	991	977	1018	994	900	886	1089	1188	1316	1426	1295	1215	1119	883	789	738	676	30316
205	Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions	5531	386	484	450	401	470	483	485	473	465	433	472	534	537	742	628	576	558	396	387	395	339	15625
206	Special Receptacle or Package	7973	1040	1326	1223	1183	1164	1203	1233	1208	1213	1210	1597	1597	1515	1360	1225	1168	987	916	927	774	846	32888
208	Mineral Oils: Processes and Products	5327	363	477	429	421	346	345	382	291	211	215	257	384	328	316	263	248	242	164	189	225	239	11662
209	Classifying, Separating, and Assorting Solids	3797	377	427	364	362	375	387	352	344	316	290	309	374	387	370	314	315	319	242	235	236	239	10731
210	Liquid Purification or Separation	12014	1431	1668	1516	1657	1856	1737	1462	1519	1623	1616	1749	1767	1724	1821	1622	1571	1451	1254	1266	1345	1264	44933
211	Supports: Racks	3079	409	464	434	477	468	440	445	369	437	436	553	571	581	551	564	517	444	412	387	338	257	12633
212	Traversing Hoists	1009	84	72	79	75	77	64	40	69	64	67	80	65	104	82	68	100	46	46	64	75	75	2505
213	Railway Draft Appliances	232	11	13	18	19	34	18	19	20	32	20	20	22	17	26	17	11	20	8	14	14	14	619
215	Bottles and Jars	2500	350	374	332	319	316	291	291	295	284	291	391	413	362	303	280	260	223	208	220	184	155	8642
216	Etching a Substrate: Processes	1834	198	288	311	311	304	467	427	428	385	483	545	594	621	637	650	633	607	498	550	505	537	11813
217	Wooden Receptacles	277	25	24	22	12	13	16	16	7	8	7	14	10	11	15	9	7	4	4	6	4	6	517
218	High-Voltage Switches with Arc Preventing or Extinguishing Devices	1021	85	64	58	57	62	49	53	43	75	43	94	80	69	95	93	76	75	49	49	38	24	2352
219	Electric Heating	10384	1090	1299	1200	1123	1096	1133	1164	1019	1007	923	1307	1430	1642	1583	1552	1529	1559	1321	1424	1111	858	36754
220	Receptacles	7046	829	1051	968	975	943	1002	947	913	962	889	1132	1183	1186	1120	987	919	808	712	860	732	620	26784
221	Article Dispensing	1901	190	219	214	235	226	224	208	216	231	157	251	272	268	294	256	294	254	171	230	166	166	6643
222	Dispensing	7375	724	918	953	972	907	928	1057	917	844	833	1030	1246	1112	1109	1069	867	871	700	762	615	498	26307
223	Apparel Apparatus	622	62	74	78	107	86	50	48	71	79	106	86	102	123	102	71	46	69	53	52	61	54	2202
224	Package and Article Carriers	2073	293	378	373	390	337	380	371	407	444	463	533	533	469	501	443	424	400	278	274	260	193	10217
225	Severing by Tearing or Breaking	655	65	69	62	74	96	64	70	51	54	45	73	63	51	52	67	66	78	61	60	34	35	1945
226	Advancing Material of Indeterminate Length	2022	173	209	154	159	160	150	162	142	129	100	174	152	116	121	125	106	76	63	65	55	52	4665
227	Elongated-Member-Driving Apparatus	1246	123	129	104	129	122	131	137	156	164	182	180	149	176	133	120	176	185	174	234	168	183	4501
228	Metal Fusion Bonding	3292	377	486	361	416	464	462	436	411	400	358	389	468	601	631	583	538	526	409	346	265	305	12524
229	Envelopes, Wrappers, and Paperboard Boxes	2989	352	408	383	416	361	365	384	328	311	280	362	351	347	335	293	244	168	193	158	156	155	9339
231	Whips and Whip Apparatus	21	1	2	1	2	3	0	1	0	0	1	0	1	4	0	1	1	2	1	1	1	3	47
232	Deposit and Collection Receptacles	317	42	50	54	57	45	35	31	47	35	43	41	43	37	33	27	29	42	37	48	62	51	1206
234	Selective Cutting (e.g., Punching)	50	2	2	1	1	5	2	1	0	0	2	2	3	0	2	3	4	6	2	8	4	4	104
235	Registers	2577	382	556	403	418	419	489	505	596	597	558	797	926	958	759	822	1036	1081	872	1405	1372	1467	18995
236	Automatic Temperature and Humidity Regulation	2118	157	192	174	137	155	174	165	131	129	113	147	180	170	146	170	172	155	148	141	141	113	5328
237	Heating Systems	1306	96	104	99	80	72	73	67	40	53	47	78	112	106	74	78	76	90	65	65	47	28	2856
238	Railways: Surface Track	425	43	39	49	37	47	28	25	31	40	32	48	30	36	47	48	37	36	23	28	20	17	1166

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
239	Fluid Sprinkling, Spraying, and Diffusing	6355	656	760	791	733	738	745	789	615	581	658	902	1010	1055	886	852	907	961	774	824	593	560	22745
241	Solid Material Comminution or Disintegration	2964	300	321	298	320	304	356	364	334	343	307	370	410	319	244	296	328	224	207	253	304	254	9420
242	Winding, Tensioning, or Guiding	6612	726	702	677	590	546	640	780	575	707	612	825	756	768	628	718	665	549	486	485	433	419	19899
244	Aeronautics and Astronautics	3787	434	486	449	539	575	456	442	371	358	334	577	538	636	678	669	656	612	494	548	498	429	14566
245	Wire Fabrics and Structure	86	6	9	3	7	7	12	6	5	5	6	3	5	4	8	7	3	7	5	11	7	1	213
246	Railway Switches and Signals	423	40	43	57	46	45	37	51	58	54	59	76	42	68	84	78	60	53	42	57	55	42	1570
248	Supports	8798	1037	1340	1280	1396	1333	1219	1212	1144	1226	1184	1576	1543	1633	1541	1669	1590	1252	1031	1163	1172	1057	36396
249	Static Molds	1737	192	222	165	171	177	156	147	140	132	150	199	161	150	173	149	162	154	115	138	106	54	4950
250	Radiant Energy	12743	1691	2205	2035	2150	2085	1906	1964	1896	1780	1653	2033	1905	1903	2147	2368	2748	2798	2366	3194	2789	2951	59310
251	Valves and Valve Actuation	6499	642	789	745	679	719	675	681	561	567	501	708	815	867	801	728	706	763	771	762	539	465	20983
252	Compositions	11527	1075	1285	1160	1338	1390	1314	1268	1199	1258	1143	1358	1335	1263	1226	1272	1379	1279	913	1091	981	935	36989
254	Implements or Apparatus for Applying Pushing or Pulling Force	2441	208	250	210	182	229	219	194	198	174	201	199	257	276	257	229	261	213	198	232	209	206	7043
256	Fences	623	54	79	77	78	79	64	71	82	96	98	100	108	112	107	99	138	110	106	90	64	72	2507
257	Active Solid-State Devices (e.g., Transistors, Solid-State Diodes)	13470	1847	2421	2487	3131	3217	3385	4166	4242	4293	4703	6513	7853	9117	11002	11603	12057	12361	10880	11692	11250	10363	162053
258	Railway Mail Delivery	8	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	12
260	Chemistry of Carbon Compounds	1038	28	29	21	23	32	26	20	17	19	31	34	33	24	26	13	16	10	8	3	7	7	1465
261	Gas and Liquid Contact Apparatus	3926	263	273	273	273	281	244	201	216	219	209	242	246	254	265	249	217	225	191	183	186	164	8800
264	Plastic and Nonmetallic Article Shaping or Treating: Processes	15874	1652	2098	1940	2046	2101	2096	1810	1762	1799	1950	2404	2218	2044	1991	1847	2061	1938	1383	1405	1156	1006	54581
266	Metallurgical Apparatus	2737	238	224	201	217	213	221	245	218	161	159	185	213	181	214	171	182	136	91	61	79	90	6437
267	Spring Devices	2265	373	400	291	304	290	291	282	222	248	215	244	291	293	323	379	300	238	205	229	215	196	8094
269	Work Holders	2277	255	330	292	240	289	257	247	193	234	218	300	307	312	299	290	301	251	204	230	167	130	7623
270	Sheet-Material Associating	566	80	78	94	120	125	76	89	89	83	83	119	87	84	121	104	96	130	87	106	93	118	2628
271	Sheet Feeding or Delivering	3529	392	459	410	531	640	589	498	478	444	406	437	530	492	542	457	569	466	360	367	336	494	13426
273	Amusement Devices: Games	3489	306	437	407	473	463	430	516	498	463	479	597	515	502	544	539	545	445	337	351	365	382	13083
276	Typesetting	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	0	0	1	6
277	Seal for a Joint or Juncture	3776	331	440	355	404	411	350	350	286	383	326	278	381	419	491	471	410	387	337	339	233	256	11414
278	Land Vehicles: Animal Draft Appliances	5	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	1	0	1	1	12
279	Chucks or Sockets	1119	114	152	114	136	107	106	136	115	103	83	146	198	140	165	122	139	84	110	87	105	92	3673
280	Land Vehicles	8688	986	1157	1074	1253	1152	1250	1433	1397	1517	1238	1678	1725	1977	2145	2069	1747	1671	1554	1607	1581	1639	40538
281	Books, Strips, and Leaves	565	65	106	113	124	94	98	81	104	79	99	122	149	139	125	112	76	76	55	46	27	34	2489
283	Printed Matter	1064	116	170	200	179	202	205	210	210	191	203	301	325	296	271	231	210	223	155	168	135	135	5400
285	Pipe Joints or Couplings	4927	476	626	517	524	568	473	594	453	420	371	511	582	522	510	565	515	397	401	395	293	418	15058
289	Knots and Knot Tying	136	8	12	7	9	11	6	6	15	15	17	13	10	11	17	11	14	12	8	7	6	6	357
290	Prime-Mover Dynamo Plants	1193	95	103	77	76	77	40	68	62	59	66	124	112	138	158	163	155	231	256	287	270	297	4107
291	Track Sanders	22	7	3	3	0	2	0	1	0	3	0	0	3	2	1	2	3	2	6	3	2	1	66
292	Closure Fasteners	2741	277	384	376	404	345	279	237	267	361	319	371	371	425	288	428	442	336	299	327	320	285	9882
293	Vehicle Fenders	504	39	52	67	50	69	53	43	39	38	35	51	55	59	95	81	87	108	112	81	79	91	1888
294	Handling: Hand and Hoist-Line Implements	3529	406	440	361	371	354	347	331	339	336	333	413	391	406	336	364	301	200	194	258	236	195	10441
295	Railway Wheels and Axles	74	5	3	7	7	4	2	3	4	7	6	3	9	7	6	7	8	7	2	1	3	3	178
296	Land Vehicles: Bodies and Tops	3296	446	541	592	624	503	461	462	418	541	483	694	775	933	1104	1010	1034	1063	985	1090	948	918	18921
297	Chairs and Seats	3767	494	626	528	505	525	457	695	562	729	685	819	847	901	804	809	887	835	686	831	668	749	18409
298	Land Vehicles: Dumping	368	19	40	33	54	34	32	27	38	33	17	32	29	37	34	27	40	38	27	18	17	18	1012
299	Mining or In Situ Disintegration of Hard Material	1880	127	135	113	108	121	109	64	72	60	66	76	68	83	84	80	68	58	59	73	52	91	3647
300	Brush, Broom, and Mop Making	113	18	18	19	22	24	11	10	16	15	22	18	19	14	21	18	19	16	14	3	9	9	448
301	Land Vehicles: Wheels and Axles	791	75	84	95	104	100	90	97	97	128	94	119	138	172	179	188	161	142	125	131	93	107	3310
303	Fluid-Pressure and Analogous Brake Systems	1670	282	294	235	252	247	285	280	276	269	246	295	318	364	456	352	292	206	215	205	163	206	7408
305	Wheel Substitutes for Land Vehicles	484	21	47	27	26	21	33	39	38	25	24	47	50	62	61	72	60	35	43	42	36	34	1327

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
307	Electrical Transmission or Interconnection Systems	3253	384	445	323	325	333	380	340	403	545	543	745	767	686	602	584	615	576	380	617	580	556	13982
310	Electrical Generator or Motor Structure	6698	714	823	733	791	831	778	770	702	706	799	1236	1251	1274	1372	1392	1305	1863	1547	1524	1300	1305	29714
312	Supports: Cabinet Structure	2828	341	363	329	284	326	374	343	373	378	369	496	531	600	534	636	595	499	412	395	376	352	11734
313	Electric Lamp and Discharge Devices	4599	573	602	590	571	547	465	436	480	565	621	909	931	857	955	1199	1612	1438	1093	1221	1195	1126	22585
314	Electric Lamp and Discharge Devices: Consumable Electrodes	14	1	0	2	0	1	1	1	0	0	0	0	0	2	0	2	1	3	1	1	0	4	34
315	Electric Lamp and Discharge Devices: Systems	4647	457	477	572	652	513	447	493	557	526	463	671	708	745	849	1002	1067	956	819	947	932	872	19372
318	Electricity: Motive Power Systems	6109	624	726	671	641	636	689	647	628	658	624	948	879	899	879	899	805	865	836	1102	874	842	22481
320	Electricity: Battery or Capacitor Charging or Discharging	836	75	77	66	79	136	165	178	163	222	376	357	413	430	501	454	399	355	321	326	275	378	6582
322	Electricity: Single Generator Systems	667	68	56	56	73	56	61	53	34	76	83	98	73	86	83	76	81	125	111	129	129	109	2383
323	Electricity: Power Supply or Regulation Systems	2515	267	334	309	271	273	237	260	296	361	418	472	545	494	550	547	504	485	484	645	595	618	11480
324	Electricity: Measuring and Testing	8325	1222	1539	1268	1353	1288	1275	1278	1521	1766	1511	1594	1541	1784	2133	2557	2521	2514	2305	2649	2426	2307	46677
326	Electronic Digital Logic Circuitry	1722	289	357	359	440	421	352	463	501	532	442	556	578	759	854	832	723	795	723	764	897	883	14242
327	Miscellaneous Active Electrical Nonlinear Devices, Circuits, and Systems	7907	745	910	829	944	1011	831	1144	1234	1297	1045	1533	1683	1813	1991	2112	1993	1938	1684	2062	1870	1743	38319
329	Demodulators	724	55	108	62	69	91	65	80	105	99	112	115	108	113	89	71	62	69	50	67	58	53	2425
330	Amplifiers	3214	312	362	281	330	366	283	380	384	345	342	445	526	604	598	657	731	800	631	892	825	839	14147
331	Oscillators	2645	218	316	236	268	305	225	269	293	317	288	385	371	392	423	357	471	497	409	557	541	485	10268
332	Modulators	475	57	49	49	66	73	58	70	92	100	73	107	96	76	79	84	81	58	55	94	88	71	2051
333	Wave Transmission Lines and Networks	3912	450	443	385	488	464	410	465	441	449	410	599	610	616	520	695	789	734	708	691	617	590	15486
334	Tuners	323	10	13	9	8	4	3	3	9	5	2	10	13	13	8	11	8	6	6	12	11	4	491
335	Electricity: Magnetically Operated Switches, Magnets, and Electromagnets	2769	291	341	317	309	271	264	305	259	293	242	271	378	315	331	343	325	369	387	346	259	226	9211
336	Inductor Devices	1559	144	205	170	156	141	132	178	166	171	130	214	207	239	242	277	306	277	328	313	274	255	6084
337	Electricity: Electrothermally or Thermally Actuated Switches	1481	118	142	111	92	103	98	66	58	64	99	127	136	100	80	108	138	119	59	76	52	69	3496
338	Electrical Resistors	2905	329	315	308	274	259	253	229	145	177	176	222	264	239	230	201	183	141	113	154	162	108	7387
340	Communications: Electrical	10379	1261	1736	1414	1377	1327	1351	1480	1690	1923	1969	2519	2405	2600	2522	2479	2265	2711	2674	3567	3011	3201	55861
341	Coded Data Generation or Conversion	2963	297	436	418	432	373	443	375	465	501	654	816	682	684	856	969	971	962	909	1131	1076	1155	17568
342	Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)	3085	269	345	363	397	411	416	513	481	591	512	660	725	820	975	1022	1003	1053	871	974	900	937	17323
343	Communications: Radio Wave Antennas	2088	271	330	236	255	253	311	272	292	354	330	422	696	754	903	917	737	763	924	1077	907	1010	14102
345	Computer Graphics Processing and Selective Visual Display Systems	3235	559	723	644	631	680	793	1020	1153	1377	1518	2342	2219	2347	2709	2638	2766	3174	2961	4077	3595	3519	44680
346	Recorders	2130	252	276	295	229	250	253	190	143	96	40	69	82	63	45	41	32	33	18	24	29	15	4605
347	Incremental Printing of Symbolic Information	3525	582	661	688	580	783	796	766	903	1100	1076	1632	1348	1759	2140	2251	2099	1978	1713	1989	2051	2282	32702
348	Television	8860	1328	1564	1474	1660	1708	1796	1943	2004	2423	2426	3245	3150	2964	2993	3116	3215	3648	3215	4683	4025	4267	65707
349	Liquid Crystal Cells, Elements and Systems	1386	234	306	282	334	419	369	405	448	580	590	883	777	926	919	963	1259	1429	1404	1506	1351	1495	18265
351	Optics: Eye Examining, Vision Testing and Correcting	1359	196	283	226	235	233	222	217	260	261	275	371	417	418	395	351	413	388	306	379	425	482	8112
352	Optics: Motion Pictures	1002	44	45	67	75	56	51	41	43	63	46	56	50	51	41	44	58	78	40	56	41	38	2086
353	Optics: Image Projectors	896	68	80	102	91	93	110	107	124	123	137	172	163	192	214	287	364	423	386	555	535	489	5711
355	Photocopying	3095	364	390	449	429	353	236	272	269	213	311	394	379	354	445	384	451	536	501	642	557	547	11571
356	Optics: Measuring and Testing	7293	1016	1214	1012	1184	1177	1145	1187	1231	1195	1171	1646	1528	1537	1232	1429	1915	1833	1671	2021	2100	2200	37937
358	Facsimile and Static Presentation Processing	2681	538	680	713	705	834	885	974	905	1094	1010	1592	1378	1254	1156	1157	1322	1384	1387	1932	1806	1894	27281
359	Optical: Systems and Elements	8515	1164	1336	1387	1451	1506	1412	1363	1275	1605	1642	2253	2194	2346	2425	2624	2786	3011	2866	3337	2953	2989	52440
360	Dynamic Magnetic Information Storage or Retrieval	6563	930	1249	926	1036	1043	1153	1185	1196	1193	1173	1597	1582	1589	1564	1572	1693	1859	1490	1872	1492	1435	35392
361	Electricity: Electrical Systems and Devices	8887	1128	1402	1203	1230	1414	1325	1350	1531	1769	1628	2338	2276	2489	2875	3235	3227	3171	2549	2935	2879	3124	53965

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
362	Illumination	3827	538	632	648	716	682	583	660	784	776	810	1021	1000	1230	1352	1350	1501	1384	1338	1749	1855	1668	26104
363	Electric Power Conversion Systems	2793	345	407	335	325	313	279	326	327	367	509	572	682	614	625	617	553	476	448	604	533	522	12572
365	Static Information Storage and Retrieval	3886	541	762	641	711	642	872	1294	1187	1311	1406	1911	2182	2304	2369	2415	2459	2515	2533	2720	2791	2808	40260
366	Agitating	3210	339	396	345	283	296	313	349	338	369	290	379	388	377	397	308	322	292	266	261	237	281	10036
367	Communications, Electrical: Acoustic Wave Systems and Devices	2874	306	422	453	358	370	345	300	281	313	274	328	257	325	279	247	263	275	261	263	295	346	9435
368	Horology: Time Measuring Systems or Devices	2433	161	176	152	162	142	175	170	130	153	160	203	188	195	237	216	219	229	174	221	201	244	6341
369	Dynamic Information Storage or Retrieval	3035	418	623	481	628	750	807	752	839	957	981	1220	1083	1100	1111	1105	1225	1298	1021	1579	1470	1458	23941
370	Multiplex Communications	3084	514	599	581	569	643	743	1111	1293	1584	1456	2219	2490	2766	2794	3184	3735	4366	4144	5895	4935	6250	54955
372	Coherent Light Generators	2346	493	653	544	608	593	622	765	613	496	493	716	679	657	645	694	965	1111	783	815	605	676	16572
373	Industrial Electric Heating Furnaces	1174	84	76	55	53	62	83	78	74	82	47	66	103	96	59	71	46	60	24	39	26	24	2482
374	Thermal Measuring and Testing	2817	314	370	265	313	317	289	289	218	205	279	368	286	390	350	329	369	336	360	394	322	352	9532
375	Pulse or Digital Communications	3837	521	752	635	763	834	944	1164	1393	1766	1749	2599	2522	2526	2620	2710	2937	3160	2951	4361	3685	3885	48314
376	Induced Nuclear Reactions: Processes, Systems, and Elements	3901	466	414	296	337	362	367	358	251	227	197	242	197	116	145	146	154	126	110	59	59	70	8600
377	Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems	2414	153	219	186	208	186	166	153	162	136	110	128	107	132	87	111	78	106	117	95	71	91	5216
378	X-Ray or Gamma Ray Systems or Devices	2750	266	376	360	425	386	372	318	372	431	375	434	380	485	656	751	601	603	635	878	790	911	13555
379	Telephonic Communications	4030	579	721	656	581	554	600	798	948	1111	976	1578	1736	1567	1522	1597	1639	2020	1638	2172	1641	1501	30165
380	Cryptography	780	128	166	188	203	206	266	282	293	292	341	488	395	528	453	386	339	449	579	959	916	922	9559
381	Electrical Audio Signal Processing Systems and Devices	2389	226	333	281	296	282	344	324	376	395	461	686	459	510	400	486	565	696	528	876	748	702	12363
382	Image Analysis	1683	353	458	451	602	585	612	654	664	859	1020	1817	1885	1790	1942	1829	2309	2569	2267	3451	3196	3575	34571
383	Flexible Bags	1464	225	295	268	296	206	201	207	219	221	180	260	290	294	290	230	203	157	161	177	165	112	6121
384	Bearings	3436	397	466	448	452	428	409	385	383	424	366	485	446	480	539	519	500	468	397	402	359	328	12517
385	Optical Waveguides	3081	809	790	781	927	853	842	871	785	784	894	1167	1107	1166	1629	1994	2329	2519	2331	2455	2172	1969	32255
386	Television Signal Processing for Dynamic Recording or Reproducing	1993	358	423	298	332	366	404	401	452	585	490	644	639	588	597	651	631	691	544	819	799	799	13504
388	Electricity: Motor Control Systems	672	50	76	54	63	46	58	80	66	63	68	105	69	76	96	102	76	78	69	74	82	71	2194
392	Electric Resistance Heating Devices	1566	148	173	135	119	157	161	169	153	133	135	187	228	258	272	239	197	204	220	245	158	136	5393
396	Photography	5948	507	604	600	654	604	673	680	624	864	899	1188	922	861	700	732	625	664	381	439	347	589	20105
398	Optical Communications	834	171	197	189	231	217	206	331	315	400	324	458	528	552	676	774	675	773	635	961	930	860	11237
399	Electrophotography	4168	477	619	725	847	899	905	860	794	1079	924	1354	1321	1234	1185	1195	1214	1261	1132	1561	1561	1675	26990
400	Typewriting Machines	3463	458	523	443	482	472	428	351	362	382	344	480	468	430	374	409	432	458	439	420	335	286	12239
401	Coating Implements with Material Supply	1334	178	215	256	287	224	179	216	150	173	136	232	352	304	359	297	259	249	231	241	203	199	6274
402	Binder Device Releasably Engaging Aperture or Notch of Sheet	316	35	58	51	62	41	53	52	53	44	63	79	83	89	82	62	49	49	36	34	26	22	1439
403	Joints and Connections	6770	704	865	759	740	761	693	644	643	687	718	765	649	715	730	726	730	602	516	463	372	349	20601
404	Road Structure, Process, or Apparatus	1448	174	191	214	195	179	214	199	218	220	192	211	241	235	194	227	230	252	194	260	202	183	5873
405	Hydraulic and Earth Engineering	4684	414	521	510	561	497	556	462	466	553	416	570	522	448	479	532	501	472	400	488	347	367	14766
406	Conveyors: Fluid Current	1322	103	133	112	113	102	107	63	57	90	63	73	66	85	95	103	86	59	44	53	56	54	3039
407	Cutters, for Shaping	829	71	83	101	136	116	116	90	65	73	97	131	151	138	123	74	129	126	99	122	102	113	3085
408	Cutting by Use of Rotating Axially Moving Tool	2110	237	261	238	300	263	193	239	189	177	217	290	310	215	264	194	226	159	176	230	226	175	6889
409	Gear Cutting, Milling, or Planing	1502	194	212	187	190	210	167	149	151	120	181	198	227	201	202	207	199	167	161	184	208	181	5398
410	Freight Accommodation On Freight Carrier	780	88	102	93	109	88	74	71	106	93	72	107	113	134	126	119	143	132	109	130	111	114	3014
411	Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener	2778	344	426	412	373	357	376	320	322	382	369	442	406	400	402	359	327	351	274	267	249	203	10139
412	Bookbinding: Process and Apparatus	232	23	25	39	38	41	34	31	40	26	38	28	42	55	39	42	46	48	35	32	19	31	984
413	Sheet Metal Container Making	288	25	35	21	33	27	22	26	6	14	15	26	27	24	9	20	16	18	14	17	9	9	701
414	Material or Article Handling	8288	897	876	896	943	863	793	815	817	786	759	848	901	1032	891	918	899	798	640	622	507	470	25259
415	Rotary Kinetic Fluid Motors or Pumps	2998	347	350	271	258	358	377	348	312	365	292	328	313	454	497	596	577	523	526	589	486	444	11609
416	Fluid Reaction Surfaces (i.e., Impellers)	2696	278	301	233	207	269	311	295	249	278	208	252	285	409	453	498	440	403	417	478	444	427	9831

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
417	<b>Pumps</b>	5667	662	734	571	653	695	706	629	512	652	532	619	693	907	946	905	862	688	497	615	458	458	<b>19661</b>
418	<b>Rotary Expansible Chamber Devices</b>	1827	195	195	200	220	240	199	206	199	207	160	201	144	337	306	250	230	225	166	186	172	175	<b>6240</b>
419	<b>Powder Metallurgy Processes</b>	1235	177	187	248	229	185	113	181	187	159	138	162	213	166	171	169	189	134	90	91	83	93	<b>4600</b>
420	<b>Alloys or Metallic Compositions</b>	2410	267	341	279	333	315	264	287	268	240	200	263	296	241	304	297	235	257	179	114	113	128	<b>7631</b>
422	<b>Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing</b>	8616	843	1071	960	1063	1294	1321	1320	1337	1266	1226	1584	1634	1516	1607	1624	1652	1516	1256	1297	1394	1442	<b>36839</b>
423	<b>Chemistry of Inorganic Compounds</b>	11346	865	1073	950	1081	1134	1080	1024	950	867	857	987	1038	963	967	947	983	894	720	837	681	745	<b>30989</b>
424	<b>Drug, Bio-Affecting and Body Treating Compositions</b>	7826	1024	1528	1397	1626	1692	1798	1795	1884	2283	3397	4113	4477	3928	4419	4610	4326	3198	2670	3347	2911	2843	<b>67092</b>
425	<b>Plastic Article or Earthenware Shaping or Treating: Apparatus</b>	8141	908	982	850	932	970	964	833	851	842	891	1076	947	908	966	878	815	840	563	803	733	640	<b>26333</b>
426	<b>Food or Edible Material: Processes, Compositions, and Products</b>	7582	793	1157	1030	1003	908	899	823	884	902	814	980	1261	1267	1226	1064	1015	874	519	636	524	420	<b>26581</b>
427	<b>Coating Processes</b>	17214	1730	1953	1789	1775	1901	1867	1861	1735	1817	1935	2308	2483	2499	2442	2446	2511	2295	1693	1442	1440	1246	<b>58382</b>
428	<b>Stock Material or Miscellaneous Articles</b>	25546	2834	3451	3290	3131	3380	3303	3342	3287	3528	3690	4309	4514	4325	4637	4732	4934	4854	3603	3367	3144	2767	<b>103968</b>
429	<b>Chemistry: Electrical Current Producing Apparatus, Product, and Process</b>	3843	330	355	338	335	387	450	491	551	678	664	695	700	893	982	1128	1151	1164	961	1014	970	990	<b>19070</b>
430	<b>Radiation Imagery Chemistry: Process, Composition, or Product Thereof</b>	10170	1089	1456	1507	1561	1412	1820	1964	1786	1796	1703	2081	2211	2281	2258	2121	2177	2087	1609	1926	1585	1602	<b>48202</b>
431	<b>Combustion</b>	2961	235	288	299	238	276	277	252	286	266	219	318	381	381	321	278	302	282	257	153	138	104	<b>8512</b>
432	<b>Heating</b>	3142	232	229	224	201	209	198	195	159	153	149	217	228	213	193	192	173	131	89	82	63	79	<b>6751</b>
433	<b>Dentistry</b>	2501	281	347	297	415	375	344	382	286	355	347	530	508	451	553	458	390	335	315	415	341	239	<b>10465</b>
434	<b>Education and Demonstration</b>	2414	237	318	256	288	286	374	315	320	344	332	476	483	498	426	424	444	421	365	366	300	236	<b>9923</b>
435	<b>Chemistry: Molecular Biology and Microbiology</b>	7668	1070	1432	1405	1561	1969	2257	2175	2250	3084	4140	6130	6215	5604	6275	5733	5297	4620	4132	5277	5195	4789	<b>88278</b>
436	<b>Chemistry: Analytical and Immunological Testing</b>	4331	668	876	708	785	972	1045	950	949	1037	1144	1457	1336	1156	1298	1261	1259	1117	927	975	1103	1084	<b>26438</b>
438	<b>Semiconductor Device Manufacturing: Process</b>	5539	695	897	813	1112	1194	1485	1634	1879	1811	2141	2977	4217	5437	6913	7004	6809	6955	6181	6512	6097	6068	<b>84370</b>
439	<b>Electrical Connectors</b>	7366	1059	1236	1262	1268	1329	1291	1348	1345	1470	1613	1869	2119	2753	2778	2656	2333	2542	2231	2791	2414	2609	<b>47682</b>
440	<b>Marine Propulsion</b>	989	174	190	216	218	186	182	180	180	191	163	210	216	271	265	266	243	247	257	252	225	207	<b>5528</b>
441	<b>Buoys, Rafts, and Aquatic Devices</b>	915	128	145	128	137	118	111	139	125	119	119	141	129	155	150	129	132	126	114	150	124	97	<b>3631</b>
442	<b>Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)</b>	2438	267	330	310	253	315	338	359	385	356	427	478	491	443	397	289	363	427	288	257	252	250	<b>9713</b>
445	<b>Electric Lamp or Space Discharge Component or Device Manufacturing</b>	825	85	118	126	103	122	94	70	80	125	149	182	217	251	212	203	274	301	276	283	220	155	<b>4471</b>
446	<b>Amusement Devices: Toys</b>	2904	275	391	370	375	375	345	385	338	351	292	445	434	516	451	467	511	440	282	258	234	214	<b>10653</b>
449	<b>Bee Culture</b>	98	9	2	2	11	5	1	5	4	3	8	3	3	4	2	8	8	6	4	5	1	3	<b>195</b>
450	<b>Foundation Garments</b>	195	15	23	18	23	25	23	13	26	28	35	42	70	83	71	67	29	47	48	59	51	54	<b>1045</b>
451	<b>Abrading</b>	3564	357	437	428	447	462	460	389	408	455	547	553	694	840	1065	994	949	919	886	969	697	481	<b>17001</b>
452	<b>Butchering</b>	1063	112	105	125	116	161	124	120	95	105	72	103	106	125	118	67	78	73	62	112	95	104	<b>3241</b>
453	<b>Coin Handling</b>	239	20	28	22	43	36	27	30	35	43	18	21	34	40	32	20	50	31	15	26	22	17	<b>849</b>
454	<b>Ventilation</b>	1988	193	237	243	234	264	228	262	194	227	219	320	301	355	384	377	394	390	303	271	226	215	<b>7825</b>
455	<b>Telecommunications</b>	4231	422	502	517	567	689	833	928	1098	1483	1294	2053	2460	2765	2620	2677	2746	3199	3352	5571	4958	4926	<b>49891</b>
460	<b>Crop Threshing or Separating</b>	338	23	26	38	34	33	22	30	44	47	26	44	55	42	53	58	42	49	49	44	41	34	<b>1172</b>
462	<b>Books, Strips, and Leaves for Manifolding</b>	207	19	29	31	18	35	29	34	31	10	11	14	19	31	24	23	5	11	5	5	1	4	<b>596</b>
463	<b>Amusement Devices: Games</b>	623	49	84	63	78	91	94	111	115	110	197	324	311	364	488	502	618	584	508	483	456	549	<b>6802</b>
464	<b>Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts</b>	1895	196	253	223	194	226	221	208	165	184	245	276	235	264	347	255	210	216	178	206	167	175	<b>6539</b>
470	<b>Threaded, Headed Fastener, or Washer Making: Process and Apparatus</b>	408	35	35	42	35	29	32	26	18	33	28	35	37	26	29	30	24	18	17	36	17	25	<b>1015</b>
472	<b>Amusement Devices</b>	472	50	66	89	60	68	73	75	81	91	84	115	103	96	84	99	95	95	85	66	61	57	<b>2165</b>
473	<b>Games Using Tangible Projectile</b>	2888	294	478	492	550	561	547	693	717	687	681	921	766	675	722	764	795	750	700	848	746	599	<b>16874</b>
474	<b>Endless Belt Power Transmission Systems or</b>	1902	216	284	243	243	205	253	213	211	145	182	218	211	252	215	281	237	192	184	222	173	124	<b>6406</b>

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years	
	<b>Components</b>																								
475	Planetary Gear Transmission Systems or Components	1541	223	244	216	227	258	200	207	203	226	231	244	318	302	206	297	381	377	306	382	401	343	7333	
476	Friction Gear Transmission Systems or Components	204	16	12	17	27	17	18	25	19	28	24	24	33	47	42	44	48	33	35	41	35	29	818	
477	Interrelated Power Delivery Controls, Including Engine Control	1421	233	243	227	319	271	178	147	208	241	267	306	347	348	294	326	364	289	289	272	272	260	7122	
482	Exercise Devices	1927	302	365	365	399	371	403	440	395	436	468	553	491	485	424	413	446	428	329	512	394	403	10749	
483	Tool Changing	376	44	67	33	38	40	46	49	42	18	37	42	58	48	28	49	32	29	23	38	42	42	1221	
492	Roll or Roller	646	67	110	94	76	110	88	69	109	120	110	167	149	127	116	135	118	120	80	69	51	52	2783	
493	Manufacturing Container or Tube From Paper; or Other Manufacturing From a Sheet or Web	2157	215	257	233	307	303	274	201	205	232	200	297	291	314	280	201	293	267	211	203	143	188	7272	
494	Imperforate Bowl: Centrifugal Separators	738	64	83	80	68	63	78	89	65	89	74	99	105	87	85	78	83	83	60	81	63	56	2371	
501	Compositions: Ceramic	3110	408	554	466	681	606	591	571	433	429	457	439	470	396	471	466	440	380	290	318	263	246	12485	
502	Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making	7798	598	759	703	835	848	777	670	615	601	601	801	820	998	983	984	924	870	690	746	639	605	23865	
503	Record Receiver Having Plural Interactive Leaves or a Colorless Color Former, Method of Use, or Developer Therefor	871	150	174	199	199	211	227	249	185	158	151	153	162	122	116	83	86	85	74	86	66	53	3860	
504	Plant Protecting and Regulating Compositions	3584	349	377	374	303	327	294	251	250	291	322	294	306	285	281	280	230	169	149	125	89	70	9000	
505	Superconductor Technology: Apparatus, Material, Process	1001	16	89	235	336	384	361	304	242	214	172	173	181	143	146	139	144	106	77	65	65	56	4649	
506	Combinatorial Chemistry Technology: Method, Library, Apparatus	2	0	0	1	2	2	4	5	10	34	42	94	95	123	126	147	200	111	77	10	20	37	1142	
507	Earth Boring, Well Treating, and Oil Field Chemistry	1398	138	123	110	140	136	103	98	67	82	111	105	108	99	124	99	106	127	88	165	162	123	3812	
508	Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separant Compositions for Moving Solid Surfaces, and Miscellaneous Mineral Oil Compositions	2085	218	238	214	238	236	242	276	240	260	230	269	221	235	264	194	210	162	93	94	92	109	6420	
510	Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions	3365	355	450	359	403	386	402	421	526	563	530	798	884	764	830	882	804	610	428	495	407	403	15065	
512	Perfume Compositions	882	55	40	50	46	44	49	49	31	43	36	51	33	54	56	51	48	37	38	50	52	41	1836	
514	Drug, Bio-Affecting and Body Treating Compositions	21144	2355	3246	3029	3284	3254	3332	2850	3330	3895	4946	5403	5743	5350	5699	5971	5356	4051	3557	4366	3944	3652	107757	
516	Colloid Systems and Wetting Agents; Subcombinations Thereof; Processes Of	1769	163	181	179	198	221	204	198	184	200	173	181	197	191	180	189	196	121	79	84	89	78	5255	
518	Chemistry: Fischer-Tropsch Processes; or Purification or Recovery of Products Thereof	656	45	39	30	30	27	23	12	20	18	15	33	38	49	66	54	67	81	61	80	61	45	1550	
520	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	5	0	0	0	0	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	10	
521	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	4310	350	352	320	367	464	439	373	328	316	363	436	370	392	380	363	369	302	194	180	173	118	11259	
522	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	2325	200	213	234	252	219	238	223	251	245	234	286	297	312	346	279	254	264	198	202	189	165	7426	
523	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	4889	486	523	456	594	545	591	584	562	535	526	660	787	737	750	731	658	566	407	456	408	376	16827	
524	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	14173	1203	1327	1248	1519	1515	1606	1643	1388	1479	1448	1649	1876	1714	1762	1767	1721	1698	1098	1277	1136	975	45222	
525	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	12629	1275	1565	1499	1638	1736	2003	1966	1534	1594	1439	1606	1548	1529	1644	1698	1610	1475	1050	1186	958	772	43954	
526	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	6675	553	605	657	754	835	961	837	717	696	732	817	793	891	1149	1168	1140	1025	803	864	698	623	23993	
527	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	350	25	34	25	43	41	41	32	25	27	25	38	27	20	26	20	15	18	12	14	10	14	882	

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528	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	10687	1096	1221	1239	1299	1388	1446	1366	1161	1170	1161	1278	1319	1213	1266	1245	1205	1052	730	1021	741	630	34934
530	Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof	3818	568	649	619	753	966	1116	914	986	1250	1858	2732	2666	2170	2279	2183	2071	1895	1646	2393	2327	2213	38072
532	Organic Compounds -- Part of the Class 532-570 Series	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	1	4
534	Organic Compounds -- Part of the Class 532-570 Series	2028	144	200	189	210	181	191	191	160	197	183	244	198	168	129	140	99	108	83	149	83	90	5365
536	Organic Compounds -- Part of the Class 532-570 Series	3104	405	572	616	705	688	836	808	1053	1574	2194	3128	3266	2867	3170	2906	2785	2348	2058	2551	2342	2021	41997
540	Organic Compounds -- Part of the Class 532-570 Series	5023	432	497	520	519	478	502	443	482	581	616	542	532	431	430	495	394	299	322	427	398	333	14696
544	Organic Compounds -- Part of the Class 532-570 Series	8571	919	1063	1039	963	939	1004	874	908	914	1042	1121	1098	1079	1172	1276	1124	974	978	1097	1139	1022	30316
546	Organic Compounds -- Part of the Class 532-570 Series	8880	961	1122	1119	1080	1055	1192	1030	1078	1129	1323	1259	1298	1297	1273	1431	1358	1112	1016	1232	1143	1090	33478
548	Organic Compounds -- Part of the Class 532-570 Series	9674	919	1132	1117	1091	1103	1163	990	1034	1172	1182	1103	1182	1146	1150	1292	1107	884	863	1089	1133	988	32514
549	Organic Compounds -- Part of the Class 532-570 Series	7379	524	747	697	648	739	790	711	691	686	780	813	809	824	803	888	722	640	518	616	510	497	22032
552	Organic Compounds -- Part of the Class 532-570 Series	1645	82	110	120	105	133	124	99	136	133	123	134	128	125	98	138	115	87	77	97	82	52	3943
554	Organic Compounds -- Part of the Class 532-570 Series	1995	103	118	131	126	158	158	142	152	129	123	149	189	143	205	203	140	130	84	107	75	61	4821
556	Organic Compounds -- Part of the Class 532-570 Series	2928	274	306	333	402	412	415	349	336	383	360	362	417	391	491	423	335	308	240	306	268	212	10251
558	Organic Compounds -- Part of the Class 532-570 Series	5290	379	462	427	420	430	483	370	366	321	349	364	356	335	338	342	286	225	163	215	177	166	12264
560	Organic Compounds -- Part of the Class 532-570 Series	7947	576	692	635	640	672	760	589	554	498	571	622	577	588	635	678	554	406	336	374	371	324	19599
562	Organic Compounds -- Part of the Class 532-570 Series	6392	461	557	508	506	557	586	491	448	400	483	556	569	525	555	579	550	423	328	433	362	398	16667
564	Organic Compounds -- Part of the Class 532-570 Series	5886	428	546	534	617	583	596	520	535	490	582	639	612	604	633	646	556	456	403	448	456	444	17214
568	Organic Compounds -- Part of the Class 532-570 Series	7804	489	598	628	671	745	727	612	592	471	498	706	612	576	701	725	589	502	412	515	419	388	19980
570	Organic Compounds -- Part of the Class 532-570 Series	931	117	153	127	126	153	156	135	145	127	117	167	135	141	161	134	98	98	80	100	89	67	3557
585	Chemistry of Hydrocarbon Compounds	3921	331	405	413	481	423	468	389	395	310	294	408	463	432	411	418	360	285	259	326	343	356	11891
588	Hazardous or Toxic Waste Destruction or Containment	664	69	66	52	40	52	116	165	189	205	179	184	168	141	121	127	99	69	47	74	62	57	2946
600	Surgery	5436	847	1178	1065	1186	1233	1345	1572	1593	1436	1292	2187	2103	2371	2301	2471	2739	2153	1719	1948	1908	1703	41786
601	Surgery: Kinesitherapy	996	148	183	192	209	212	171	163	213	185	173	234	188	207	226	197	215	206	140	192	189	181	5020
602	Surgery: Splint, Brace, or Bandage	1078	163	158	181	228	199	193	206	291	229	245	346	304	326	281	249	264	230	218	241	168	158	5956
604	Surgery	6458	958	1292	1230	1291	1415	1546	1846	1719	1616	1702	2249	2043	1901	1881	1859	2423	1685	1320	1310	1127	1052	39923
606	Surgery	2961	502	566	645	770	924	1011	1332	1353	1405	1669	2136	2226	2187	2000	1797	2215	1659	1279	1527	1342	1115	32621
607	Surgery: Light, Thermal, and Electrical Application	1757	220	270	324	325	331	376	504	525	489	479	781	775	884	925	877	979	781	756	945	966	677	14946
623	Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor	1695	277	355	364	366	442	323	404	341	500	512	690	742	830	917	967	1027	903	726	859	741	628	14609
700	Data Processing: Generic Control Systems or Specific Applications	3591	492	722	615	590	613	719	776	720	818	729	1279	1113	888	1047	1223	1517	1767	1620	2117	1707	1670	26333
701	Data Processing: Vehicles, Navigation, and Relative Location	2072	361	575	562	664	573	579	578	659	709	604	1022	1234	1420	1861	1912	1943	1940	1887	1969	1869	1894	26887
702	Data Processing: Measuring, Calibrating, or Testing	3048	408	612	490	484	436	458	545	511	731	695	979	806	828	998	1351	1830	2143	2123	2525	2237	2192	26430



Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years	
703	Data Processing: Structural Design, Modeling, Simulation, and Emulation	211	52	88	75	89	80	117	167	193	274	308	420	454	413	428	348	391	522	592	986	785	878	7871	
704	Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression	820	126	222	208	194	204	252	265	257	357	511	849	785	718	838	843	695	817	701	1261	1130	1142	13195	
705	Data Processing: Financial, Business Practice, Management, or Cost/Price Determination	639	116	203	161	161	157	250	268	206	274	383	745	1006	1062	880	887	969	998	1453	2224	2065	2673	17780	
706	Data Processing: Artificial Intelligence	67	42	108	154	194	288	388	296	343	343	338	483	258	253	294	299	401	303	350	474	339	506	6521	
707	Data Processing: Database and File Management or Data Structures	298	64	105	111	123	174	241	310	431	560	703	1507	1729	1672	1931	2228	2496	2675	2512	3779	3424	3609	30682	
708	Electrical Computers: Arithmetic Processing and Calculating	2848	392	532	416	439	423	503	471	444	524	509	683	690	500	484	458	461	481	404	613	407	490	13172	
709	Electrical Computers and Digital Processing Systems: Multicomputer Data Transferring	213	57	50	70	71	107	150	196	262	471	554	1495	1632	1954	2016	2285	2296	2979	3014	4549	4274	4859	33554	
710	Electrical Computers and Digital Data Processing Systems: Input/Output	1162	152	206	187	194	257	357	449	553	920	1048	1535	1490	1459	1401	1396	1551	1947	1624	1905	1484	1634	22911	
711	Electrical Computers and Digital Processing Systems: Memory	1342	197	247	238	232	324	404	584	736	998	1070	1559	1537	1506	1694	1866	1942	2226	2094	2711	2280	2606	28393	
712	Electrical Computers and Digital Processing Systems: Processing Architectures and Instruction Processing (e.g., Processors)	1080	186	210	194	183	260	272	348	440	601	686	1199	1106	945	981	822	813	895	772	877	783	830	14483	
713	Electrical Computers and Digital Processing Systems: Support	592	89	136	149	158	164	256	325	422	517	624	1047	1014	1005	1067	1044	1185	1572	1783	2813	2782	3106	21850	
714	Error Detection/Correction and Fault Detection/Recovery	2963	467	644	527	571	689	747	962	1281	1570	1463	2182	2049	1919	2035	1974	2395	2518	2432	3531	3349	3333	39601	
715	Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing	423	108	165	141	133	204	263	344	432	604	723	1235	1260	1164	1248	1235	1229	1315	1370	1926	1759	1725	19006	
716	Data Processing: Design and Analysis of Circuit or Semiconductor Mask	148	34	67	55	52	66	91	123	181	237	248	342	325	324	512	689	970	857	833	1230	1039	1120	9543	
717	Data Processing: Software Development, Installation, and Management	47	19	27	20	21	44	65	115	136	149	196	459	549	484	628	492	546	732	837	1248	1117	1155	9086	
718	Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control	127	28	37	39	28	56	62	109	135	109	155	270	242	267	314	337	328	455	397	575	445	531	5046	
719	Electrical Computers and Digital Processing Systems: Interprogram Communication or Interprocess Communication (Ipc)	29	13	8	15	16	20	30	69	116	113	126	249	289	264	390	409	355	509	460	615	451	630	5176	
720	Dynamic Optical Information Storage or Retrieval	248	75	103	60	103	123	102	89	74	137	118	183	190	153	216	238	214	238	255	313	291	317	3840	
725	Interactive Video Distribution Systems	376	63	61	74	78	68	88	97	138	273	274	426	456	372	329	344	384	439	384	709	566	637	6636	
726	Information Security	35	5	10	18	14	16	21	31	32	61	88	204	287	356	372	282	305	501	509	966	1148	1414	6675	
800	Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes	66	23	22	13	29	48	38	99	91	253	282	498	670	631	666	555	525	614	521	778	904	762	8088	
901	Robots	1289	246	313	252	236	214	204	157	154	147	132	185	183	160	165	177	182	148	143	201	165	134	5187	
902	Electronic Funds Transfer	656	45	35	27	33	25	32	28	37	31	49	57	64	81	61	40	45	55	62	60	72	59	1654	
903	Hybrid Electric Vehicles (Hevs)	64	5	1	3	4	11	11	27	19	37	33	84	106	107	146	244	247	206	121	31	49	69	1625	
930	Peptide or Protein Sequence	1573	317	255	6	12	58	76	66	38	59	85	79	79	48	46	33	31	40	29	32	23	18	3003	
968	Horology	2919	176	178	127	6	0	1	0	1	0	0	6	3	2	4	2	2	2	0	1	1	1	3432	
976	Nuclear Technology	4288	517	509	258	172	48	9	21	23	23	19	25	5	10	3	4	6	3	3	5	4	1	5956	
977	Nanotechnology	36	14	40	41	64	82	108	152	137	171	172	243	433	261	372	492	725	373	338	276	341	429	5300	
984	Musical Instruments	2569	187	230	182	0	0	0	0	0	0	0	0	0	0	2	2	2	4	1	0	1	2	3	3185
987	Organic Compounds Containing a Bi, Sb, As, or P Atom or Containing a Metal Atom of the 6th To 8th Group of the Periodic System	4178	302	309	299	75	2	0	1	1	1	5	4	0	9	5	2	4	2	1	1	0	0	5201	

Class	Class Title	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	All Years
G9B	Information Storage Based On Relative Movement Between Record Carrier and Transducer	11457	1820	2280	1729	2074	2231	2377	2472	2570	2815	2932	3993	3697	3693	3778	3979	4146	4368	3501	4781	3951	3149	77793
SUBTOTAL	UTILITY CLASSES	1367638	147783	179788	166061	175125	177296	179533	182988	181792	195715	199394	260328	268045	271355	284989	287089	290609	282402	246623	294768	264990	261488	6165799
D00	** Design Classification Undetermined **	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
D01	Edible Products	174	31	26	38	67	84	52	47	41	62	51	57	56	69	66	50	43	124	88	138	64	63	1491
D02	Apparel and Haberdashery	1538	298	256	281	338	383	481	457	348	383	536	739	614	539	501	507	551	600	506	922	987	1141	12906
D03	Travel Goods and Personal Belongings	2188	213	197	369	433	388	451	425	442	443	454	556	589	597	618	573	569	529	468	693	698	682	12575
D04	Brushware	474	64	59	81	99	95	131	117	161	156	142	169	153	191	204	284	204	144	166	197	170	234	3695
D05	Textile or Paper Yard Goods; Sheet Material	262	29	34	17	31	14	25	13	33	30	40	52	53	98	75	52	41	69	94	91	87	79	1319
D06	Furnishings	7522	813	717	844	1085	1099	1477	1218	1538	1519	1286	1670	1656	1877	1932	1709	1677	1639	1265	1713	2182	2001	38439
D07	Equipment for Preparing or Serving Food or Drink Not Elsewhere Specified	4701	465	529	576	582	571	798	736	693	877	674	868	864	1052	1098	843	1051	959	760	1247	1471	1500	22915
D08	Tools and Hardware	4599	572	598	689	801	892	907	920	914	911	895	1184	1158	1380	1113	1043	1201	1119	880	1510	1658	1780	26724
D09	Packages and Containers for Goods	3311	286	299	580	666	530	612	650	670	657	674	811	816	964	952	765	961	739	796	1215	1501	1417	19872
D10	Measuring, Testing, or Signalling Instruments	3014	292	352	476	681	575	581	651	783	540	616	789	717	724	758	652	536	573	534	721	802	966	16333
D11	Jewelry, Symbolic Insignia, and Ornaments	2375	141	227	232	320	305	400	376	477	404	446	498	412	428	496	456	437	415	368	514	516	574	10817
D12	Transportation	3670	629	634	745	767	758	916	819	779	783	875	1099	997	1263	1132	1098	1113	1319	990	1487	1530	1650	25053
D13	Equipment for Production, Distribution, or Transformation of Energy	1417	170	207	327	429	408	385	397	390	388	338	528	684	683	593	677	721	581	597	1036	1110	1379	13445
D14	Recording, Communication, or Information Retrieval Equipment	3709	551	601	802	872	742	957	1049	1096	1099	1077	1355	1377	1646	1425	1488	1796	1788	1342	2477	2921	3463	33633
D15	Machines Not Elsewhere Specified	2303	213	188	257	183	319	382	283	378	365	276	381	381	437	410	430	418	437	343	649	691	623	10347
D16	Photography and Optical Equipment	1006	108	96	180	193	211	192	225	232	281	259	406	362	463	365	290	417	322	300	416	717	586	7627
D17	Musical Instruments	428	39	29	74	92	56	54	80	53	59	49	67	72	39	54	46	60	37	48	65	66	110	1677
D18	Printing and Office Machinery	1687	242	228	296	360	242	301	260	294	287	244	235	224	310	298	218	242	201	160	455	417	295	7496
D19	Office Supplies; Artists` and Teachers` Materials	1687	138	176	247	323	358	366	290	375	238	307	413	413	437	454	423	427	461	379	384	486	608	9390
D20	Sales and Advertising Equipment	574	77	41	106	132	107	137	169	156	128	182	219	182	227	153	104	184	146	136	141	144	137	3582
D21	Games, Toys, and Sports Goods	4932	482	619	699	893	828	812	1059	1058	923	883	1214	1129	1203	968	824	862	793	697	1141	1088	1205	24312
D22	Arms, Pyrotechnics, Hunting and Fishing Equipment	1197	154	213	184	147	189	153	188	205	225	159	189	196	198	173	178	194	160	150	205	191	191	5039
D23	Environmental Heating and Cooling; Fluid Handling and Sanitary Equipment	3110	351	283	417	649	560	494	596	614	579	600	833	859	1035	931	989	935	850	813	1585	1374	1477	19934
D24	Medical and Laboratory Equipment	3470	412	470	441	521	578	566	598	612	589	502	587	639	735	816	628	739	611	384	605	1015	1086	16604
D25	Building Units and Construction Elements	2248	143	229	191	203	266	286	335	374	312	343	363	381	407	405	438	385	362	326	322	444	474	9237
D26	Lighting	1495	178	232	233	353	348	309	398	421	505	489	581	595	856	959	730	792	714	530	916	1197	1368	14199
D27	Tobacco and Smokers` Supplies	395	29	27	30	35	12	25	37	37	39	47	90	94	66	85	98	68	79	59	109	124	79	1664
D28	Cosmetic Products and Toilet Articles	1166	135	196	281	197	142	173	281	200	217	215	232	241	421	372	290	306	283	212	333	338	346	6577
D29	Equipment for Safety, Protection, and Rescue	402	72	59	78	63	61	81	98	119	109	93	82	93	103	89	117	75	103	67	129	153	169	2415
D30	Animal Husbandry	749	104	82	92	165	168	220	207	211	208	157	135	121	207	135	131	145	143	149	179	221	227	4156
D32	Washing, Cleaning, or Drying Machine	925	138	135	193	227	156	168	225	239	223	239	259	230	336	298	276	314	278	207	435	543	493	6537
D34	Material or Article Handling Equipment	1006	277	252	230	332	388	389	289	299	219	164	250	226	228	218	212	227	184	105	263	388	290	6436
D99	Miscellaneous	361	26	43	35	36	55	67	53	83	57	71	86	74	88	113	57	100	114	62	64	45	57	1747
SUBTOTAL	DESIGN CLASSES	68095	7872	8334	10321	12275	11888	13348	13546	14325	13815	13383	16997	16658	19307	18259	16676	17791	16876	13981	22357	25342	26750	398196
PLT	Plants	2068	425	587	318	353	321	442	499	389	367	398	563	422	551	586	1134	994	1019	716	1149	1047	1241	15589
SUBTOTAL	PLANT CLASSES	2068	425	587	318	353	321	442	499	389	367	398	563	422	551	586	1134	994	1019	716	1149	1047	1241	15589
TOTAL	ALL CLASSES	1437801	156080	188709	176700	187753	189505	193323	197033	196506	209897	213175	277888	285125	291213	303834	304899	309394	300297	261320	318274	291379	289479	6579584

Patent Counts By Class By Year  
PART A1  
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A Patent Technology Monitoring Team Report

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