

PTMD SPECIAL REPORT
PATENT COUNTS BY CLASS BY YEAR
INDEPENDENT INVENTOR PATENTS
JANUARY 1977 -- DECEMBER 2003



March 2004
U.S. PATENT AND TRADEMARK OFFICE
OFFICE OF ELECTRONIC INFORMATION PRODUCTS/ PTMD
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A PATENT TECHNOLOGY MONITORING DIVISION REPORT

Patent Counts By Class By Year, Patents By Independent Inventors, 1977 - 2003

Background

An independent inventor patent is a patent for which ownership is either unassigned (i.e., patent rights are held by the inventor) or assigned to an individual at the time of grant. This report is limited to only such independent inventor patents. Patents for which ownership is assigned to an organization at the time of grant are excluded from this 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 460 total classes and 150,000 total subclasses. Copies of each patent are placed (classified) in those subclasses which 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. Counting patents by "original" classifications 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. Patent classifications used to produce this report are those assigned to patents as of **December 31, 2003**.

This report counts all patent documents including utility, design, plant, and reissue patents as well as statutory invention registrations and defensive publications.

This report has been generated from data contained in the U.S. Patent and Trademark Office TAF data base.

Part I

Part I (OR's only) considers only the original classification of each patent. If the patent record is incomplete and contains no OR designation, the patent is counted in "dummy" class 1 or "dummy" design Class D00.

Part II

Part II (OR's + XR's, Duplicates Eliminated) looks at original and cross-reference classifications. Duplicate counts are eliminated within each class, but not among classes. For example, the same patent could be counted in Class 2 and Class 4 if it contained disclosure relating to both classes. If the patent record contains no classification data, the patent is counted in "dummy" Class 1 or "dummy" design Class D00.

PART I

PATENT COUNTS BY CLASS BY YEAR

ORIGINAL CLASSIFICATIONS ONLY

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
001	2	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	6	5	5	0	1	6	29
002	543	85	99	120	142	197	147	189	175	255	220	161	176	152	266	296	348	428	372	375	308	206	5260
004	623	91	94	108	108	96	118	150	176	182	148	174	190	152	136	152	212	264	218	201	237	198	4028
005	520	64	73	82	96	166	134	161	191	193	214	165	157	152	208	175	181	190	207	177	166	189	3861
007	74	3	12	10	17	17	13	22	19	25	15	28	21	12	24	17	23	23	26	34	24	14	473
008	86	19	11	9	12	7	12	19	11	9	11	14	18	14	17	14	22	18	17	16	15	14	385
012	40	4	2	7	5	8	4	8	7	4	2	5	5	3	2	3	5	13	1	6	2	6	142
014	38	8	5	10	6	18	8	11	8	11	4	8	12	16	15	10	10	17	6	7	15	11	254
015	780	103	129	158	118	142	154	154	143	166	134	144	193	199	236	181	237	240	251	186	175	176	4399
016	200	33	15	18	18	47	42	85	39	54	37	40	63	55	69	66	91	74	70	64	97	78	1355
019	54	9	6	16	9	6	3	14	15	14	6	5	13	10	6	8	5	10	10	8	14	4	245
023	12	1	1	1	0	0	0	0	0	0	2	0	3	1	0	0	1	1	3	0	1	1	28
024	384	54	81	76	59	91	65	89	111	125	103	79	81	98	95	131	121	116	121	130	126	142	2478
026	18	3	5	1	1	2	4	4	4	4	2	1	1	1	4	5	1	4	2	2	0	0	69
027	35	7	1	2	1	2	7	6	11	9	6	7	7	5	5	12	11	9	5	9	6	15	178
028	39	1	3	4	1	4	2	1	6	6	6	2	9	6	5	4	4	7	4	3	4	1	122
029	747	88	118	135	158	176	149	171	156	169	145	168	127	133	131	144	137	120	152	157	142	157	3780
030	567	70	93	97	130	127	107	146	151	155	118	104	109	98	124	97	136	137	129	116	146	124	3081
033	724	122	130	155	157	167	115	140	185	177	171	113	117	167	121	96	132	112	143	148	134	150	3676
034	291	47	47	49	45	50	40	40	36	46	47	50	52	49	43	56	59	75	78	51	49	41	1341
036	357	50	63	52	71	81	72	75	81	61	47	69	73	64	65	86	126	106	96	83	76	76	1930
037	213	29	30	26	32	31	28	43	37	36	43	38	23	31	47	29	35	43	49	40	49	31	963
038	40	5	9	12	15	13	13	14	13	13	9	8	12	9	13	7	11	14	10	11	9	7	267
040	616	68	83	72	58	90	100	145	112	111	78	95	113	100	92	98	124	136	153	140	148	179	2911
042	266	62	59	51	50	70	55	78	93	112	63	61	70	82	63	84	88	77	49	77	104	108	1822
043	746	83	150	143	183	239	227	330	231	208	215	220	219	163	223	135	139	266	214	142	184	208	4868
044	96	20	13	19	17	14	16	13	14	8	9	13	13	14	12	9	4	15	22	10	10	14	375
047	437	38	47	48	61	50	54	90	82	100	79	82	108	106	100	62	88	103	124	98	102	94	2153
048	58	6	15	8	6	8	3	9	7	3	4	0	4	6	0	2	7	3	4	3	0	2	158
049	250	36	40	43	54	77	38	53	44	50	48	33	51	60	61	41	55	47	50	57	42	35	1265
051	44	3	3	7	5	5	7	11	11	11	14	18	7	8	5	14	4	4	6	4	5	4	200
052	1610	184	306	239	350	376	309	390	352	305	262	309	348	301	385	431	497	467	461	533	435	401	9251
053	307	32	35	59	68	77	52	57	56	76	52	46	45	65	60	51	71	57	54	47	33	37	1437
054	48	12	10	13	14	8	13	13	14	19	18	14	15	12	13	9	20	8	20	17	24	29	363
055	129	13	19	20	19	23	25	28	24	30	31	28	9	15	25	17	35	36	28	33	24	30	641
056	391	38	60	66	42	61	52	63	91	88	77	78	71	88	75	39	65	80	71	48	64	43	1751
057	141	22	21	24	36	33	27	30	28	13	27	39	32	14	8	16	34	17	10	15	10	5	602
059	37	3	8	2	3	5	3	9	8	4	2	4	9	7	6	10	4	9	6	4	5	11	159
060	723	104	89	98	87	105	96	85	64	68	77	88	61	56	61	69	82	86	91	100	92	84	2466
062	547	93	106	112	116	114	112	139	145	130	105	142	141	110	127	122	150	144	156	192	201	170	3374
063	82	8	7	19	16	13	27	21	19	27	35	25	14	30	25	32	21	24	25	19	30	30	549
065	107	20	10	20	11	7	3	14	10	4	13	9	13	4	6	5	11	22	8	7	18	12	334
066	102	9	5	9	13	18	12	13	2	19	4	12	4	3	12	15	10	12	18	20	14	6	332
068	71	6	8	14	3	5	13	6	6	9	10	9	9	12	11	7	15	15	10	8	15	14	276
069	19	5	2	4	2	1	3	3	2	4	0	0	1	0	2	1	0	0	1	1	1	1	53
070	462	49	68	64	76	118	112	139	116	123	102	104	105	122	103	128	174	170	105	92	121	129	2782
071	70	9	16	8	7	6	7	10	9	3	18	6	10	16	14	19	17	11	11	12	19	7	305
072	546	55	57	81	75	73	60	87	73	72	42	60	53	40	57	63	84	83	69	52	46	42	1870
073	1136	162	188	184	202	187	163	240	187	204	167	159	173	203	217	189	209	196	166	167	205	218	5122
074	461	38	59	62	78	80	73	105	81	80	116	94	91	85	109	90	102	112	101	86	58	74	2235

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
075	138	27	29	25	15	18	17	16	15	10	12	13	21	25	12	14	17	14	14	27	25	17	521
076	74	12	11	9	20	11	11	13	6	15	13	5	10	16	10	10	7	3	15	5	3	7	286
079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
081	422	73	98	123	112	88	124	152	126	134	109	115	129	91	116	79	118	182	215	251	187	140	3184
082	135	16	15	15	23	25	15	15	10	15	16	12	14	7	9	19	19	19	15	22	13	30	479
083	482	49	75	77	87	88	67	85	92	100	84	76	58	51	58	47	72	93	73	66	45	57	1982
084	671	71	92	94	75	129	101	112	113	109	91	87	104	124	128	95	130	158	173	152	121	131	3061
086	38	6	7	9	7	3	6	12	3	9	5	10	3	5	2	4	5	1	6	2	6	3	152
087	10	0	4	4	5	1	2	4	2	1	2	5	0	0	1	2	1	5	2	0	5	5	61
089	108	11	16	15	22	22	22	33	43	22	24	28	24	34	18	21	30	28	23	30	33	32	639
091	165	22	21	13	15	22	27	15	19	18	17	19	18	4	9	9	10	6	9	5	8	6	457
092	80	11	17	22	10	15	33	20	33	29	16	12	25	22	16	7	18	12	10	13	15	17	453
095	100	21	18	15	14	19	22	24	23	20	27	19	13	14	16	21	23	28	14	28	27	22	528
096	174	19	19	28	16	29	27	33	41	25	27	29	19	21	27	19	21	27	22	25	25	17	690
099	388	46	86	73	69	86	75	73	78	72	88	92	93	126	102	130	148	133	149	150	110	96	2463
100	215	30	47	34	25	29	25	18	17	40	45	40	37	29	28	34	37	25	21	22	11	27	836
101	238	29	41	40	38	43	37	44	43	53	49	49	51	69	39	49	67	50	56	53	36	49	1223
102	99	17	18	17	18	29	31	31	30	33	36	31	28	32	18	15	19	21	11	35	28	27	624
104	124	13	14	11	22	30	21	17	23	27	20	14	16	24	20	25	22	18	14	20	29	23	547
105	49	4	10	7	9	11	7	9	10	11	13	13	6	8	13	11	12	3	12	14	12	6	250
106	209	23	18	13	17	24	16	25	27	31	31	34	59	35	44	34	39	44	32	39	32	39	865
108	248	28	20	24	30	43	37	63	44	42	51	28	62	62	83	77	77	83	103	68	63	66	1402
109	51	17	12	11	9	14	9	15	11	5	2	10	5	3	5	11	9	9	8	3	7	5	231
110	132	34	34	28	29	30	36	28	42	36	36	29	44	29	23	19	30	15	17	21	19	12	723
111	126	7	15	8	18	19	18	15	26	18	16	12	18	23	28	22	10	22	21	29	19	24	514
112	148	22	28	26	31	25	18	27	16	34	28	19	20	16	20	18	32	40	29	35	26	11	669
114	611	85	99	119	112	184	139	172	179	181	148	139	144	138	147	139	141	154	174	148	133	138	3624
116	214	19	24	19	37	19	26	45	49	62	34	34	49	38	35	28	23	32	41	37	42	32	939
117	34	5	4	5	6	8	8	2	6	4	2	2	6	7	3	4	9	8	8	7	4	3	145
118	192	28	21	36	32	39	29	27	25	48	36	33	37	43	32	37	40	46	32	33	34	30	910
119	662	75	103	119	89	101	128	133	169	200	209	180	186	164	194	186	287	227	216	207	255	248	4338
122	108	32	33	24	25	26	17	23	20	12	8	9	17	11	11	6	16	15	14	11	10	25	473
123	1079	191	209	165	132	159	117	173	139	182	159	142	126	131	137	123	159	136	129	195	148	156	4287
124	201	23	33	35	47	58	44	61	44	54	51	53	60	67	70	91	59	60	56	60	52	67	1346
125	60	8	6	13	8	10	8	8	14	6	9	9	11	8	10	15	10	12	14	16	12	11	278
126	1539	216	242	180	141	129	107	110	112	96	60	83	79	75	65	61	73	93	102	90	48	70	3771
127	27	1	4	1	3	1	1	1	2	2	7	4	5	3	2	1	4	6	1	4	1	0	81
128	425	49	75	81	85	117	72	162	149	188	151	149	181	191	215	205	245	195	176	170	171	160	3612
131	223	12	26	26	34	29	22	31	25	24	26	7	15	22	23	22	41	27	29	13	19	17	713
132	268	40	34	52	66	59	41	61	76	92	68	73	85	72	87	88	169	195	141	104	86	74	2031
134	233	41	23	34	33	49	70	71	57	83	68	62	65	90	68	56	75	120	98	79	83	74	1632
135	159	20	28	25	29	31	50	73	60	50	52	60	101	62	77	84	90	76	83	126	78	68	1482
136	107	18	8	8	10	12	7	9	8	10	6	4	10	13	16	11	14	9	22	14	18	10	344
137	913	96	135	169	149	178	163	217	185	190	195	183	181	147	141	143	171	237	251	223	128	127	4522
138	166	23	32	15	26	28	24	26	14	32	28	20	31	30	28	23	45	63	52	46	34	24	810
139	93	17	7	9	12	15	4	13	5	14	10	3	5	11	11	7	7	5	8	8	5	1	270
140	55	10	8	10	6	9	8	3	8	4	4	3	9	8	7	5	9	5	8	6	3	5	193
141	291	19	35	34	42	57	27	56	44	50	53	54	73	69	72	68	62	76	68	88	81	60	1479
142	7	2	0	4	5	1	1	1	1	3	4	1	1	1	1	2	1	5	2	0	0	1	44
144	302	47	60	51	64	53	65	63	59	56	69	46	52	50	40	44	53	59	62	53	59	61	1468

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

1977-

CLASS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
147	1	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	5
148	70	16	22	6	8	9	10	14	15	11	18	15	24	14	9	15	15	15	19	26	22	26	399
149	32	5	1	4	2	6	2	4	3	3	1	1	2	1	4	3	3	0	2	3	1	2	85
150	47	3	2	5	7	9	13	14	19	15	14	16	15	10	14	6	13	13	24	21	14	16	310
152	158	23	15	11	10	17	16	30	17	16	16	25	19	14	13	16	16	17	22	17	13	21	522
156	658	85	91	111	100	100	93	117	100	89	101	99	111	136	107	109	127	141	129	139	122	112	2977
157	44	5	3	8	4	4	11	5	7	7	7	5	3	5	4	1	2	3	5	7	2	1	143
159	26	1	2	4	2	2	4	2	1	0	5	6	3	3	2	0	3	1	1	0	1	0	69
160	214	36	34	34	23	51	51	76	60	79	74	60	52	70	69	82	83	84	108	92	81	70	1583
162	79	3	9	14	9	11	12	14	16	14	11	18	14	12	15	12	20	10	13	21	9	9	345
163	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
164	189	10	30	25	40	35	24	36	33	21	13	29	26	12	31	13	21	13	6	20	31	23	681
165	378	66	51	66	64	73	60	72	58	46	59	39	67	52	48	27	49	51	39	53	42	36	1496
166	270	43	78	58	57	88	52	58	64	71	78	71	80	67	58	53	73	56	81	126	70	79	1731
168	22	4	2	6	5	3	8	7	4	13	13	10	5	2	4	6	6	4	11	8	9	7	159
169	96	11	10	14	17	19	11	21	16	27	30	22	13	9	25	31	31	42	40	24	26	20	555
171	45	1	2	1	5	2	3	0	8	4	3	2	6	3	1	1	2	1	4	2	5	0	101
172	410	37	52	49	53	35	28	56	51	34	39	34	38	50	47	42	65	51	54	49	41	33	1348
173	123	13	14	16	23	23	15	36	17	23	20	9	14	16	15	15	28	21	28	15	10	21	515
174	146	24	25	26	38	32	34	31	42	39	37	45	46	49	40	48	83	78	59	84	95	79	1180
175	248	52	54	51	41	35	40	50	50	52	52	36	44	46	45	29	53	45	42	49	39	37	1190
177	97	25	14	18	18	28	23	27	20	11	16	20	12	11	2	12	19	13	10	15	13	19	443
178	21	0	2	4	3	5	3	1	3	3	3	2	1	4	5	3	3	0	3	0	2	0	71
180	435	64	53	66	75	56	74	65	55	71	60	58	76	59	66	35	60	70	73	70	78	78	1797
181	191	29	36	33	33	35	30	39	35	33	22	42	30	24	26	32	38	54	53	31	35	42	923
182	371	58	98	90	118	102	84	90	91	110	106	61	100	74	75	80	111	130	102	67	95	78	2291
184	71	5	7	10	8	9	8	11	21	15	16	15	14	23	25	11	14	17	14	20	12	7	353
185	11	3	1	1	0	4	0	2	3	0	1	1	1	0	0	3	0	1	2	1	1	1	37
186	24	1	1	1	4	2	3	2	1	2	7	3	1	6	5	5	4	0	3	4	2	2	83
187	59	5	18	10	7	12	9	7	8	17	14	14	21	12	22	16	16	28	17	16	14	11	353
188	177	16	24	21	31	21	26	52	41	31	29	26	44	46	58	43	41	55	45	52	78	44	1001
190	52	9	10	10	14	10	16	16	11	10	21	13	17	22	23	19	16	17	16	20	19	22	383
191	32	4	4	2	2	3	4	2	4	4	6	3	8	4	3	7	4	2	4	13	6	5	126
192	124	9	21	17	21	25	5	17	19	34	17	11	17	18	30	20	16	27	18	18	15	11	510
193	48	9	2	3	4	11	4	6	3	8	5	7	3	3	3	2	1	8	8	9	13	1	161
194	77	16	9	13	12	7	12	9	7	14	12	14	9	18	15	7	7	15	5	8	5	9	300
196	11	1	0	0	0	1	1	1	1	1	0	1	1	1	1	0	4	1	1	0	1	0	28
198	332	46	36	58	53	59	68	60	67	68	73	60	81	49	44	45	57	55	70	63	66	56	1566
200	292	27	40	41	29	31	35	33	38	43	31	30	32	32	32	32	54	38	20	21	39	31	1001
201	25	4	1	0	4	2	0	3	0	0	5	0	2	2	0	3	2	1	0	0	1	2	57
202	130	23	10	17	15	11	13	11	19	8	6	10	11	9	8	15	8	7	9	5	8	6	359
203	56	5	7	12	21	27	12	17	25	14	25	24	9	43	7	12	28	20	8	9	10	3	394
204	288	41	40	37	39	37	30	57	53	46	58	37	44	58	33	50	36	36	56	66	44	40	1226
205	208	30	21	19	21	34	22	22	27	26	32	41	41	38	25	19	25	27	30	48	33	17	806
206	797	118	121	141	153	186	214	273	252	244	208	238	239	231	216	235	343	321	312	243	217	192	5494
208	95	18	18	7	7	4	4	14	14	7	10	3	11	6	16	6	7	14	8	7	5	7	288
209	294	33	40	42	36	32	36	44	40	42	36	48	45	35	28	32	36	43	37	36	36	15	1066
210	1030	142	145	144	167	190	206	264	232	249	300	276	225	249	264	255	258	281	273	309	246	206	5911
211	341	40	69	62	80	74	81	92	103	134	133	114	126	97	144	134	190	153	156	140	124	120	2707
212	67	6	8	11	9	12	13	9	7	12	8	10	6	4	5	8	17	16	10	9	8	8	263

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
213	15	3	1	1	3	2	1	1	0	3	2	0	2	0	2	0	1	0	3	4	2	1	47
215	177	23	49	63	42	50	76	66	51	50	42	34	33	51	33	35	42	50	41	38	33	23	1102
216	18	4	5	10	5	5	12	8	5	8	8	9	14	9	4	6	10	7	5	4	11	10	177
217	10	0	4	0	1	5	3	2	1	0	1	1	2	2	1	0	2	1	2	1	0	0	39
218	11	1	0	3	3	1	2	2	2	1	1	2	2	0	2	0	0	0	2	3	0	0	38
219	486	81	77	112	80	94	92	119	132	114	94	89	83	99	93	82	110	126	180	125	127	113	2708
220	474	51	71	93	95	91	110	154	201	176	160	174	158	154	156	145	182	219	184	187	153	119	3507
221	213	25	28	36	41	35	25	35	38	44	45	39	48	44	44	34	47	46	47	48	57	58	1077
222	770	95	132	105	105	123	104	163	151	194	180	171	170	175	168	142	168	246	174	179	170	110	3995
223	124	9	15	25	30	31	20	15	30	40	32	18	17	21	34	45	39	47	61	54	26	20	753
224	484	66	108	70	55	60	118	144	158	153	114	142	150	184	178	181	202	195	165	177	149	133	3386
225	51	11	7	12	9	13	10	17	10	16	24	10	8	10	12	6	12	12	10	8	4	14	286
226	97	12	11	7	6	11	14	6	4	1	2	5	5	3	4	3	5	6	2	4	4	2	214
227	105	16	22	23	22	25	22	36	18	18	18	15	14	17	17	24	22	22	26	23	32	27	564
228	112	18	8	18	30	28	23	32	35	24	25	27	20	29	22	23	13	23	23	26	23	19	601
229	137	14	17	17	28	32	47	50	52	68	50	49	53	44	35	37	62	63	56	53	45	32	1041
231	2	0	1	2	0	1	1	1	0	2	0	0	0	0	0	1	0	0	3	0	1	0	15
232	84	16	9	16	9	18	28	26	29	23	18	12	12	34	16	19	15	19	15	17	11	17	463
234	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
235	195	25	29	29	34	34	29	43	28	24	26	27	31	50	38	41	40	59	66	43	74	104	1069
236	149	32	15	31	18	22	16	20	12	11	18	19	19	15	8	10	15	13	22	14	13	13	505
237	117	18	19	15	14	11	9	10	12	12	7	9	6	5	9	6	11	11	10	16	9	14	350
238	71	5	11	4	2	6	6	13	10	6	12	3	7	8	12	6	15	6	8	9	12	7	239
239	640	76	74	76	101	74	98	118	111	114	103	106	125	96	64	104	151	156	182	130	120	141	2960
241	302	43	31	35	53	52	51	70	69	63	58	87	68	59	70	59	61	81	62	43	57	59	1533
242	478	62	69	92	52	87	86	82	74	54	61	71	67	49	66	72	94	106	86	90	107	90	2095
244	313	50	48	32	56	74	75	79	55	83	91	76	62	53	58	39	86	86	99	91	99	93	1798
245	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
246	22	2	2	1	2	2	5	2	1	3	3	5	5	11	4	6	11	2	10	12	8	10	129
248	790	102	133	141	170	217	196	265	294	366	358	252	248	244	250	242	369	325	363	326	343	312	6306
249	235	21	27	24	19	37	27	29	21	23	19	17	12	14	16	22	24	14	16	18	17	9	661
250	390	37	65	53	57	73	59	111	95	111	90	79	69	88	80	76	93	84	70	70	71	100	2021
251	234	33	59	53	40	47	32	46	39	34	47	49	54	39	32	33	39	43	49	35	44	41	1122
252	97	35	38	18	20	24	15	23	18	21	26	10	19	19	30	23	31	32	37	38	19	21	614
254	354	31	57	59	38	54	51	65	47	44	47	71	42	35	34	57	49	81	74	66	65	76	1497
256	144	14	20	25	15	26	20	31	20	25	26	21	29	25	26	37	34	30	33	32	21	42	696
257	40	9	9	9	8	18	10	18	23	24	31	21	25	36	29	46	44	41	42	55	68	81	687
258	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
261	256	30	31	32	27	30	18	26	36	31	31	25	15	23	26	24	23	27	25	44	31	27	838
264	526	78	78	65	62	51	72	74	102	89	103	111	89	99	90	93	124	104	106	90	104	88	2398
266	137	32	27	18	24	16	17	18	7	15	9	8	10	20	13	13	13	5	14	10	11	10	447
267	67	2	9	7	15	26	19	32	16	10	12	14	14	13	17	12	15	17	14	16	20	13	380
269	283	29	42	46	43	56	50	74	64	40	52	40	33	28	49	26	48	58	63	44	43	46	1257
270	33	7	7	9	8	4	3	2	9	6	2	5	3	3	3	2	4	2	4	3	1	2	122
271	77	10	13	16	20	28	13	22	13	19	18	22	10	13	15	7	9	6	8	6	11	7	363
273	1045	109	153	168	126	142	133	208	218	220	209	189	245	247	214	223	252	224	197	211	223	194	5150
277	157	26	33	30	23	18	21	23	13	18	20	16	18	17	21	24	21	25	18	33	38	21	634
278	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2
279	77	9	9	19	24	20	11	14	16	19	18	16	16	15	13	10	14	19	13	20	12	15	399

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CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
280	1423	202	209	211	260	268	282	315	268	324	276	323	363	345	342	251	410	402	469	455	427	387	8212
281	47	10	14	17	25	23	18	31	25	26	24	29	19	26	24	30	34	44	25	22	17	7	537
283	64	4	7	15	27	26	11	36	32	37	36	43	43	45	34	30	47	64	48	36	24	21	730
285	314	39	57	50	54	88	49	71	47	61	59	64	70	65	59	41	70	75	49	51	51	49	1533
289	30	7	2	3	7	5	3	4	1	4	2	1	1	1	3	7	2	6	4	9	5	4	111
290	215	36	41	29	22	23	21	16	7	9	10	7	12	23	8	7	22	13	23	29	26	15	614
291	4	0	1	1	1	0	1	0	1	0	1	0	0	0	3	0	0	0	1	0	1	0	15
292	333	44	49	36	59	79	44	65	64	86	77	36	37	45	63	73	43	54	54	27	66	47	1481
293	47	5	4	5	6	14	6	12	14	17	12	11	6	3	5	12	8	7	9	14	9	12	238
294	514	50	88	82	70	91	90	90	79	74	81	101	97	106	117	109	150	130	124	81	119	77	2520
295	1	0	1	1	2	0	0	0	1	2	0	0	0	0	1	1	0	2	0	1	1	2	16
296	460	42	57	57	63	103	83	125	148	136	127	100	85	95	116	113	139	151	165	176	126	134	2801
297	445	49	62	82	101	116	107	147	119	115	118	82	165	120	171	161	183	220	262	159	176	182	3342
298	59	7	5	4	8	11	8	9	5	8	5	8	7	9	5	8	7	10	11	7	12	218	
299	130	25	26	15	12	25	21	17	18	15	16	16	6	11	8	11	10	12	10	15	8	12	439
300	9	0	0	1	2	3	0	1	2	2	4	5	5	5	1	4	2	2	1	3	1	4	57
301	78	9	16	8	14	19	17	15	28	25	31	24	25	17	26	13	27	29	39	45	42	40	587
303	50	4	3	2	6	7	4	6	12	7	10	13	6	15	7	14	6	11	11	10	18	8	230
305	29	2	5	2	4	1	5	5	3	0	1	3	5	6	4	7	8	7	8	8	7	6	126
307	182	23	23	22	12	42	42	41	17	14	19	30	25	22	46	47	51	57	38	21	22	30	826
310	240	40	40	33	41	47	45	60	33	43	43	48	40	34	42	51	73	79	66	72	70	61	1301
312	357	43	60	31	46	48	49	58	42	45	71	63	54	68	66	57	87	79	82	51	70	60	1587
313	72	6	12	7	11	9	15	21	14	21	14	8	10	11	21	18	23	32	23	19	23	28	418
314	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
315	188	35	33	30	33	42	32	54	66	74	44	50	37	64	45	29	59	47	65	64	58	71	1220
318	203	28	34	36	38	45	43	39	54	39	32	34	39	48	38	34	46	35	44	33	33	21	996
320	56	12	7	7	18	22	7	12	6	6	21	30	21	10	24	32	31	34	40	41	38	33	508
322	38	7	10	7	3	9	5	3	4	4	3	5	4	1	4	5	5	2	3	6	1	3	132
323	53	8	9	6	8	13	8	16	9	10	15	10	7	7	11	12	13	9	11	16	19	5	275
324	381	48	67	65	48	67	69	117	84	69	96	74	80	99	109	51	97	82	91	97	118	98	2107
326	8	1	3	2	1	2	4	1	7	3	9	4	10	7	7	5	11	7	4	8	10	8	122
327	102	10	9	6	5	5	11	18	11	8	21	13	16	10	16	11	20	23	23	24	22	17	401
329	7	2	3	3	0	0	1	2	0	3	0	1	2	1	2	1	0	0	1	0	1	0	30
330	62	8	17	17	10	14	18	17	8	10	12	7	8	8	12	12	10	15	17	19	13	17	331
331	30	3	8	3	6	11	2	5	4	9	3	3	2	2	6	5	8	8	5	6	2	5	136
332	8	2	3	2	1	0	0	0	2	3	1	0	1	5	3	0	2	1	1	2	0	1	38
333	61	13	7	7	10	13	8	18	8	10	15	11	11	10	10	4	8	10	12	13	13	21	293
334	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
335	96	14	13	11	9	14	11	7	8	11	11	13	12	10	16	14	9	18	14	17	16	16	360
336	36	4	4	5	3	2	1	4	7	1	3	3	6	5	6	8	6	10	9	4	6	15	148
337	65	18	10	17	5	11	2	11	7	7	6	5	4	7	4	14	17	23	17	15	13	20	298
338	43	8	7	3	3	8	11	13	9	12	6	8	6	0	6	3	4	6	8	2	4	4	174
340	877	125	96	114	112	175	150	255	207	229	180	163	167	223	274	314	373	380	432	380	320	225	5771
341	57	9	3	11	11	20	14	29	23	10	14	22	17	24	23	32	33	25	28	34	43	34	516
342	121	5	16	17	16	31	14	20	21	19	21	28	28	27	36	24	40	34	34	39	37	27	655
343	156	15	17	14	22	26	27	31	30	31	9	25	19	27	31	24	29	37	43	52	50	25	740
345	73	10	11	6	12	15	38	39	27	27	30	27	51	52	55	88	109	124	127	147	130	128	1326
346	41	3	4	6	4	7	6	5	4	3	0	0	1	2	2	0	1	3	0	1	0	0	93
347	26	6	5	4	5	8	11	7	8	7	6	1	6	6	4	9	17	10	19	16	22	20	223
348	185	28	15	35	35	51	24	41	60	62	46	38	50	59	57	54	68	63	70	54	49	45	1189

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CLASS	1977-																						TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
349	11	4	0	5	3	8	7	10	7	4	12	6	4	17	19	11	9	7	7	12	9	12	184
351	170	40	27	33	30	46	56	99	78	66	66	59	58	81	70	70	83	114	104	88	86	93	1617
352	72	12	12	15	11	18	1	4	8	16	10	6	1	3	6	10	7	14	5	8	4	6	249
353	89	19	12	10	12	6	11	8	13	10	10	15	13	16	13	12	13	16	11	11	9	9	338
355	188	13	24	38	28	22	22	21	12	20	18	14	14	13	3	11	8	11	6	11	7	7	511
356	277	38	37	45	31	49	36	63	55	62	57	48	38	67	61	61	70	76	75	32	60	58	1396
358	34	8	6	8	10	10	10	9	8	14	17	14	22	19	28	14	15	27	16	13	19	13	334
359	462	53	68	70	103	82	97	116	135	105	128	105	93	89	96	79	136	138	129	154	159	122	2719
360	154	12	18	16	30	43	21	29	29	20	22	25	23	23	15	27	18	20	18	20	16	624	
361	271	32	37	40	45	50	61	80	59	45	66	71	48	71	90	87	118	85	98	115	120	109	1798
362	522	65	92	113	108	104	156	179	183	207	219	141	176	207	219	221	271	259	351	343	327	367	4830
363	77	8	16	15	12	18	17	26	21	19	16	25	16	14	23	22	25	22	28	32	32	19	503
365	42	7	6	4	4	4	6	9	9	11	10	20	24	17	26	27	32	24	30	27	19	25	383
366	308	47	63	48	47	35	50	53	57	43	32	33	47	55	66	44	57	65	46	65	45	39	1345
367	107	5	8	19	15	29	18	23	41	23	41	36	23	26	19	16	19	16	17	23	15	11	550
368	168	26	41	34	29	35	40	32	38	47	43	45	51	27	25	39	43	43	30	50	47	36	969
369	141	17	13	18	12	10	18	16	11	16	12	17	16	34	22	22	26	21	27	20	28	35	552
370	50	9	9	10	14	13	10	17	10	9	13	12	9	34	28	28	33	28	35	35	25	23	454
372	48	10	19	8	10	9	21	25	36	24	13	14	21	26	18	22	19	14	16	16	14	26	429
373	55	2	9	3	3	4	5	3	4	3	5	5	3	5	3	0	0	7	12	6	6	3	146
374	119	12	17	28	17	13	13	21	14	22	13	15	15	8	10	18	29	11	22	14	15	13	459
375	38	7	3	7	18	14	9	20	13	19	19	15	16	23	30	29	33	39	33	21	27	29	462
376	91	15	12	5	11	9	9	8	13	9	18	14	10	12	9	4	12	8	2	4	4	5	284
377	79	10	8	10	4	9	5	13	5	5	9	5	3	5	6	1	1	4	6	3	6	2	199
378	126	11	15	18	31	21	26	27	31	42	35	31	28	24	33	22	36	18	32	28	26	26	687
379	227	44	46	37	56	47	66	87	57	75	64	34	50	75	76	80	102	72	62	72	57	74	1560
380	31	1	2	3	9	8	11	4	17	20	11	15	23	12	15	22	22	8	18	15	11	3	281
381	256	27	48	33	37	39	33	60	50	33	47	43	47	40	57	63	115	63	60	43	68	68	1330
382	34	3	8	12	14	11	9	16	16	22	24	25	18	26	35	39	51	57	66	51	42	59	638
383	83	11	9	13	16	20	27	32	30	40	29	28	37	27	21	21	23	45	51	44	25	15	647
384	154	25	26	41	32	28	17	24	31	26	31	21	34	37	25	16	25	23	20	32	25	18	711
385	30	7	7	7	14	32	43	33	43	48	26	30	31	31	39	32	67	62	59	57	79	76	853
386	23	6	6	8	6	6	9	17	12	13	7	7	3	4	6	11	7	10	11	10	13	5	200
388	15	0	6	3	1	3	2	0	2	3	1	1	7	2	4	1	0	4	1	1	0	0	57
392	99	20	16	20	20	20	22	19	21	14	22	20	21	21	13	16	27	32	31	31	23	18	546
396	307	23	32	44	29	35	46	33	43	44	26	20	29	15	34	27	61	42	24	21	29	39	1003
398	26	4	4	9	6	13	6	8	7	7	4	5	9	7	9	7	9	9	6	7	10	10	182
399	28	4	3	4	2	3	2	6	6	6	10	11	10	13	6	12	9	9	7	20	8	10	189
400	82	12	33	25	19	19	17	22	22	27	19	31	23	31	22	15	20	19	20	11	14	20	523
401	174	23	22	28	32	31	39	41	56	78	45	37	59	46	33	23	36	110	98	124	90	77	1302
402	37	9	8	10	18	14	12	20	18	20	19	15	15	11	18	17	23	13	22	10	15	14	358
403	324	54	51	54	73	63	45	49	70	60	63	55	46	49	52	57	60	64	44	75	63	58	1529
404	211	25	27	29	45	65	43	72	72	80	52	72	59	61	51	51	46	57	63	48	66	56	1351
405	530	63	91	66	78	127	86	134	120	166	150	148	88	91	145	99	134	151	101	107	149	129	2953
406	87	6	10	10	5	9	8	15	12	19	13	10	4	5	8	6	6	7	8	14	12	11	285
407	46	5	9	7	11	9	2	4	5	12	7	9	3	2	2	8	8	9	9	12	3	8	190
408	239	24	27	31	44	31	37	34	51	57	43	32	45	44	25	35	56	47	22	40	27	31	1022
409	101	11	8	21	38	25	23	27	31	20	18	18	14	17	19	27	29	25	31	18	21	20	562
410	101	12	9	8	9	11	23	20	23	22	16	16	20	30	23	16	28	35	47	46	37	47	599
411	192	17	31	23	27	43	47	50	60	39	53	55	42	49	52	52	63	59	55	46	42	34	1131

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CLASS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
412	13	1	3	4	0	3	1	2	7	3	4	6	3	4	4	6	7	4	7	10	9	1	102
413	11	1	0	0	1	1	0	0	0	1	2	1	2	0	2	1	2	0	1	1	0	0	27
414	863	118	105	116	117	131	131	114	128	153	133	125	138	142	142	112	131	144	167	85	113	92	3500
415	155	29	21	30	13	25	32	22	15	22	32	24	22	22	29	13	13	23	30	37	39	39	661
416	184	25	26	29	22	29	26	29	22	9	22	40	30	36	31	24	17	29	43	36	42	29	780
417	393	80	75	90	82	58	83	82	66	75	64	76	58	69	69	68	71	74	113	102	103	100	2051
418	149	21	28	25	15	23	23	19	24	20	23	18	25	22	20	17	17	12	31	27	24	22	605
419	26	2	2	5	7	4	2	1	9	6	2	1	7	4	7	7	4	5	4	2	4	4	115
420	71	15	7	2	2	4	5	6	7	7	6	4	8	6	1	3	2	4	0	1	7	6	174
422	280	49	34	33	39	44	46	54	60	69	94	81	83	108	77	71	89	93	90	93	95	86	1768
423	268	35	33	28	27	36	32	27	40	33	28	26	30	28	24	17	27	29	24	41	35	37	905
424	374	50	78	68	74	87	104	151	127	132	151	152	128	142	186	250	295	338	291	362	351	321	4212
425	521	89	66	79	62	89	99	100	93	84	75	81	83	69	67	57	76	63	65	49	56	47	2070
426	448	50	55	74	58	70	90	117	115	104	99	94	88	98	111	107	105	154	158	165	121	98	2579
427	284	48	41	60	38	64	56	48	38	53	62	38	65	74	59	64	81	74	76	78	60	66	1527
428	625	105	111	172	149	131	146	170	187	158	165	173	181	209	207	213	260	269	244	222	167	211	4475
429	135	24	24	21	10	13	18	22	19	18	17	20	22	35	71	30	29	32	27	28	25	40	680
430	123	32	21	22	19	19	18	10	23	23	14	12	15	23	28	13	23	22	27	24	32	27	570
431	185	43	36	35	34	37	28	41	37	31	33	30	41	38	42	25	51	59	61	69	38	62	1056
432	135	22	32	20	26	22	20	18	16	16	12	9	7	3	2	10	11	15	12	9	11	17	445
433	546	81	122	123	109	112	126	139	118	184	173	143	157	107	145	133	222	203	154	191	134	113	3535
434	461	53	80	72	55	93	84	107	81	82	100	130	107	86	107	97	147	136	143	89	101	123	2534
435	265	44	44	24	43	69	61	64	72	66	71	89	99	114	130	184	228	256	210	247	178	181	2739
436	136	12	24	17	22	23	27	32	16	23	24	33	31	29	42	39	53	40	43	44	30	43	783
438	41	13	6	15	7	14	12	9	10	15	19	20	16	33	23	20	36	52	56	68	65	83	633
439	345	44	47	70	77	106	126	116	130	116	141	117	137	120	133	130	175	150	210	194	159	139	2982
440	143	22	24	35	33	56	36	48	49	57	39	53	44	45	48	51	55	50	56	44	40	50	1078
441	112	15	19	35	43	49	45	54	61	45	51	41	65	59	51	56	66	50	55	54	59	55	1140
442	52	7	11	19	10	11	10	15	7	5	11	8	13	16	10	9	22	29	20	15	10	8	318
445	8	1	1	0	1	1	1	1	2	1	2	2	3	2	1	5	2	9	5	4	3	4	59
446	568	56	51	73	69	85	77	106	131	126	123	107	122	103	109	79	140	135	181	157	176	172	2946
449	41	10	10	9	4	5	7	1	0	6	3	0	3	2	1	5	2	1	2	1	3	5	121
450	53	11	4	5	9	7	6	8	7	6	8	9	4	11	6	14	20	33	49	37	32	14	353
451	350	34	50	63	66	87	78	85	88	84	81	96	69	73	81	88	80	92	101	121	93	81	2041
452	179	27	24	37	50	41	29	22	38	28	40	36	40	31	33	21	17	22	32	31	11	19	808
453	19	4	4	6	5	2	4	4	3	9	4	3	4	5	2	4	0	1	4	1	3	2	93
454	168	20	26	46	29	42	38	39	50	38	54	34	42	24	36	34	44	45	41	59	58	47	1014
455	147	13	12	13	14	15	24	39	15	34	30	25	15	33	54	34	55	59	72	61	66	71	901
460	24	9	5	7	4	2	3	5	11	8	8	5	4	8	12	1	9	5	8	5	5	2	150
462	18	2	0	4	3	4	2	4	3	1	8	10	3	5	3	1	1	0	2	4	0	0	78
463	91	9	13	21	9	23	16	27	17	29	24	28	40	25	36	28	65	52	63	63	52	58	789
464	77	11	12	4	5	7	12	8	10	3	8	8	10	11	10	7	10	4	9	23	10	13	272
470	38	3	3	1	2	3	3	1	1	1	3	6	3	4	2	2	4	4	2	0	3	3	92
472	96	9	15	13	12	12	9	28	33	21	18	29	21	22	24	26	47	31	25	21	23	28	563
473	952	94	134	174	142	162	180	262	307	321	327	301	386	423	395	363	471	382	324	316	308	310	7034
474	99	9	13	24	16	35	19	35	30	27	13	24	33	34	23	25	17	14	28	13	19	10	560
475	93	5	10	16	18	27	35	39	25	36	33	26	20	22	25	19	24	35	35	21	22	25	611
476	17	1	3	2	3	3	0	4	0	3	3	2	0	4	7	1	2	2	5	2	2	1	67
477	32	4	12	8	5	3	3	6	8	7	2	1	4	6	8	6	5	5	4	1	4	6	140
482	499	82	103	119	171	167	177	208	226	220	227	218	249	221	275	281	324	308	304	274	252	262	5167

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
483	5	1	2	4	2	4	2	0	2	4	2	0	3	1	1	3	1	6	6	1	4	2	56
492	27	2	2	1	3	3	2	4	4	1	1	5	2	8	3	6	5	5	3	1	1	2	91
493	137	13	14	25	23	23	10	16	16	24	41	19	23	17	16	11	30	21	24	11	16	25	555
494	48	1	3	4	2	5	6	7	3	6	2	7	8	3	4	5	8	7	6	7	8	2	152
501	39	6	9	5	1	5	9	11	11	9	12	6	13	11	13	7	10	11	5	12	12	14	231
502	64	9	8	12	10	10	5	9	12	17	17	21	9	10	8	8	12	16	18	11	14	4	304
503	7	4	0	1	2	0	2	3	4	3	1	2	4	0	4	2	4	4	0	2	1	0	50
504	30	1	4	6	5	3	2	6	9	8	18	8	5	5	8	11	10	28	14	16	11	9	217
505	2	0	0	0	0	0	0	1	4	5	10	8	6	9	7	8	3	8	6	5	2	3	87
507	6	4	4	8	4	4	3	5	3	2	5	3	0	1	1	3	7	5	3	1	5	6	83
508	24	4	5	6	2	8	3	7	6	6	7	7	5	9	8	8	11	13	10	10	7	8	174
510	50	11	7	12	8	13	14	13	13	15	10	11	12	19	22	23	34	41	23	29	30	30	440
512	2	0	0	0	1	1	2	0	2	0	2	0	3	0	0	1	1	1	3	1	1	1	22
514	429	75	91	85	84	92	90	156	151	173	126	121	117	148	185	208	248	268	243	277	243	201	3811
516	10	4	3	2	1	3	0	1	2	1	4	2	2	2	3	4	2	5	4	5	3	7	70
518	1	0	0	0	3	1	0	1	0	0	1	0	2	2	1	0	1	0	1	4	1	0	19
521	100	14	17	18	11	7	16	12	8	14	20	17	8	16	8	13	17	18	9	15	11	16	385
522	8	1	0	2	1	2	1	1	1	1	3	2	1	6	5	1	2	5	4	2	1	6	56
523	80	15	15	8	10	8	13	9	16	12	11	13	11	16	13	11	20	15	13	14	12	12	347
524	142	26	15	17	14	14	10	20	16	24	33	22	28	26	32	24	40	29	25	22	27	30	636
525	99	10	13	10	3	14	6	9	24	20	19	19	12	13	10	12	15	11	10	14	13	11	367
526	42	6	7	9	3	4	9	3	5	9	5	10	9	1	7	4	9	9	8	14	8	23	204
527	13	3	0	0	1	0	1	3	2	1	1	2	1	3	0	1	1	0	2	0	0	1	36
528	93	10	7	7	8	5	7	11	11	15	14	23	13	11	6	11	15	12	9	14	15	7	324
530	88	14	14	9	11	11	7	14	6	13	20	13	17	13	14	36	45	38	18	40	30	34	505
534	9	0	0	0	4	3	1	4	4	3	1	1	1	1	1	2	2	1	0	0	1	1	40
536	47	6	6	7	7	2	4	7	12	7	11	11	5	15	24	18	34	31	19	31	20	26	350
540	30	1	1	0	4	6	3	2	3	4	2	3	1	3	1	8	2	6	0	3	3	2	88
544	36	3	4	6	4	2	4	2	4	4	3	6	6	4	3	2	2	4	3	1	3	3	109
546	33	3	3	6	1	3	1	1	4	1	2	7	7	3	8	8	6	6	7	5	3	10	128
548	27	2	4	5	7	3	3	5	6	5	7	4	4	5	6	2	4	7	2	2	3	3	116
549	44	3	4	3	2	2	3	3	3	6	2	9	3	1	1	7	6	7	5	10	9	4	137
552	17	0	4	0	0	1	0	2	0	5	1	0	0	1	0	0	1	2	0	1	1	1	37
554	27	0	4	1	3	1	0	2	4	3	3	2	7	4	3	3	4	3	4	6	9	8	101
556	26	1	2	2	4	4	3	1	3	6	4	5	2	6	6	6	3	8	3	4	2	9	110
558	24	2	6	1	2	0	2	4	5	2	2	3	1	2	5	1	4	4	3	1	2	0	76
560	28	10	2	3	1	4	3	4	8	7	4	3	5	6	5	6	4	4	1	7	7	4	126
562	28	5	4	3	3	3	3	5	4	4	3	9	5	3	4	8	5	4	5	6	6	8	128
564	24	4	3	1	4	3	1	5	4	4	6	2	2	10	3	4	3	2	5	10	7	3	110
568	49	6	2	5	5	4	4	5	1	11	9	5	5	4	6	3	10	13	6	6	4	7	170
570	12	2	1	0	0	0	0	2	1	0	5	0	0	0	1	4	2	3	1	5	0	0	39
585	33	8	5	6	4	3	1	10	8	9	6	7	1	6	10	8	17	12	8	11	4	8	185
588	35	8	10	11	7	12	11	9	7	2	5	10	14	17	16	23	19	18	11	8	7	2	262
600	624	109	106	124	145	180	115	196	201	218	196	228	246	268	216	201	374	301	327	266	327	264	5232
601	200	16	25	33	40	39	55	51	48	62	67	41	36	60	51	40	73	43	49	69	50	49	1197
602	220	43	47	59	65	65	60	65	72	80	62	56	62	76	58	71	121	102	109	80	70	95	1738
604	643	114	108	132	183	224	211	290	290	295	326	350	400	335	295	286	359	271	260	242	244	302	6160
606	392	60	102	111	169	161	149	169	159	213	230	253	289	276	312	396	438	437	396	329	278	322	5641
607	152	22	21	41	53	40	43	49	55	59	54	47	47	58	60	43	74	74	84	84	75	75	1310
623	248	29	42	46	75	80	82	93	93	73	105	82	89	78	123	93	116	114	134	156	147	144	2242

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

CLASS	1977-																						TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
700	59	9	12	18	18	22	29	29	22	31	31	26	36	29	51	35	52	45	45	55	60	84	798
701	35	5	7	8	5	6	5	19	11	11	15	15	18	28	21	20	31	31	37	65	67	54	514
702	61	12	8	16	14	10	21	23	24	25	18	24	29	15	38	37	42	44	39	43	68	83	694
703	3	0	0	1	1	1	4	4	4	4	5	4	4	4	6	15	15	14	9	12	19	11	138
704	22	3	6	2	6	11	4	9	12	14	13	9	14	12	12	15	35	35	18	37	28	19	336
705	23	4	7	6	6	13	10	16	18	17	23	33	34	14	31	46	81	144	117	69	75	77	864
706	0	0	0	0	1	1	3	3	6	8	5	7	7	14	15	11	36	16	21	19	22	28	223
707	9	0	2	0	2	1	0	3	3	3	2	9	14	17	14	23	53	61	44	52	59	81	452
708	73	9	17	13	7	8	10	21	13	11	13	22	16	10	18	14	17	15	13	9	14	10	353
709	5	0	2	1	0	0	0	0	3	0	2	5	1	7	14	9	40	34	46	45	51	43	308
710	13	1	7	3	2	5	5	3	7	8	4	7	6	8	11	15	21	18	23	16	12	23	218
711	13	3	4	2	4	3	5	6	5	7	5	6	7	10	13	15	15	11	12	11	10	15	182
712	7	2	4	2	4	4	2	9	9	1	5	7	3	7	11	12	19	9	4	9	6	5	141
713	6	0	4	5	5	5	4	11	11	11	11	9	16	12	17	21	34	29	37	39	29	28	344
714	27	5	4	4	3	12	5	10	5	11	9	4	14	15	14	16	20	13	10	19	11	23	254
715	3	0	3	6	0	3	3	4	8	6	9	8	8	8	6	13	11	21	9	13	4	8	154
716	1	0	0	0	1	1	1	2	0	0	1	0	2	2	3	6	8	4	2	14	19	23	90
717	1	1	1	3	0	0	0	1	1	1	2	0	3	6	7	4	7	15	12	13	11	7	96
718	0	1	0	0	0	0	0	0	1	1	0	1	2	5	1	2	6	3	5	2	0	0	30
719	0	0	0	0	0	0	1	0	0	0	0	1	0	2	1	1	4	0	2	2	4	6	24
725	22	2	3	4	6	3	3	4	7	10	6	3	10	7	18	9	16	23	11	19	12	11	209
800	2	0	0	1	3	2	2	1	1	2	0	2	3	5	2	8	27	24	13	14	18	14	144
D01	29	4	1	3	4	7	4	3	17	17	8	12	12	8	17	19	20	24	25	28	14	6	282
D02	303	70	54	72	62	71	67	85	92	107	70	149	156	165	175	167	275	232	184	144	192	169	3061
D03	425	75	64	81	64	70	73	62	147	171	158	210	204	193	202	195	257	277	249	219	207	209	3812
D04	52	8	18	21	29	34	30	22	32	34	35	57	39	62	62	43	62	46	76	71	88	52	973
D05	28	2	2	2	0	2	4	5	4	2	5	4	2	6	2	9	9	6	14	18	5	16	147
D06	1457	263	250	291	287	284	252	221	313	389	404	561	450	597	542	484	625	587	654	593	627	528	10659
D07	615	86	94	83	149	143	123	154	156	154	170	250	238	229	311	201	278	242	317	293	225	285	4796
D08	705	118	188	137	139	166	189	193	256	301	295	380	352	398	355	303	453	392	474	362	309	420	6885
D09	338	65	67	56	62	77	67	52	108	149	103	138	140	139	145	149	142	134	168	179	140	176	2794
D10	492	78	71	81	63	99	76	72	110	187	147	241	245	240	172	160	242	237	203	180	178	145	3719
D11	640	102	67	90	76	60	60	82	88	132	111	145	163	171	153	161	185	176	202	213	210	166	3453
D12	585	100	89	88	81	133	110	136	221	210	241	253	251	234	298	245	337	253	332	247	224	254	4922
D13	102	22	23	20	26	18	23	18	27	48	41	52	55	64	47	60	68	96	100	92	99	100	1201
D14	291	38	53	50	50	60	54	59	86	105	86	137	113	144	149	147	175	163	217	167	167	173	2684
D15	257	52	69	43	45	41	38	46	64	46	102	100	61	116	77	65	87	54	68	59	57	76	1623
D16	107	17	26	17	24	24	19	14	55	34	49	43	52	42	74	58	75	70	94	48	58	86	1086
D17	105	24	17	37	15	17	18	12	33	29	27	28	27	24	19	19	33	35	22	35	20	32	628
D18	86	6	18	15	21	17	8	7	16	24	15	20	14	11	18	12	17	17	25	16	25	20	428
D19	275	54	42	49	60	52	42	55	62	112	92	115	118	137	95	110	141	120	132	123	91	103	2180
D20	100	24	18	30	23	18	22	17	43	47	34	57	55	56	40	75	85	62	64	54	21	70	1015
D21	1176	228	175	197	183	230	211	269	299	424	392	385	435	424	378	383	556	405	455	434	340	300	8279
D22	289	64	46	30	44	49	46	75	54	49	66	89	96	103	113	81	86	111	92	86	100	93	1862
D23	579	79	87	61	83	87	74	74	112	205	158	146	201	203	154	156	213	211	261	197	197	204	3742
D24	410	90	95	67	102	99	84	90	101	129	159	184	187	187	185	178	213	192	200	233	190	163	3538
D25	379	43	82	26	70	32	41	54	44	50	52	78	104	83	93	108	115	128	137	115	139	126	2099
D26	241	28	42	46	43	55	58	62	62	99	88	84	128	136	174	146	209	162	253	311	260	249	2936
D27	132	14	11	6	13	8	8	4	9	13	4	7	14	18	19	17	44	49	34	35	34	36	529
D28	178	33	46	44	62	28	49	64	126	52	35	65	86	76	74	90	89	84	158	133	93	100	1765

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

CLASS	1977-																				TOTAL		
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		2002	2003
D29	69	10	11	18	18	14	25	18	38	23	33	46	48	62	59	45	41	47	55	31	51	40	802
D30	228	43	24	34	18	43	53	32	41	68	62	88	83	77	82	92	69	73	119	60	60	62	1511
D32	122	28	19	23	26	51	27	28	61	55	39	54	81	89	70	85	86	67	64	49	56	68	1248
D34	141	26	29	28	38	34	49	51	54	81	110	114	94	98	65	57	101	70	78	68	68	83	1537
D99	71	10	11	13	12	18	3	14	16	16	24	34	28	42	29	37	39	34	38	53	30	62	634
PLT	362	60	58	77	73	66	132	188	98	119	75	101	97	78	83	91	124	101	91	125	261	232	2692
TOTAL	90535		14351		15448		16543		20466		20839		21804		22853		28127		28133		25399		536418
		12600		14903		17587		20469		21886		21043		22220		21949		27824		26858		24581	

PART II

PATENT COUNTS BY CLASS BY YEAR

ORIGINAL AND CROSS REFERENCE CLASSIFICATIONS

(DUPLICATES ELIMINATED)

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

1977-																							
CLASS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
001	2	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	6	5	5	0	1	6	29
002	777	121	136	170	196	257	208	275	263	356	308	254	268	272	363	400	472	549	472	456	390	279	7242
004	922	133	126	151	153	150	174	225	229	259	218	247	271	217	204	225	271	347	277	273	299	253	5624
005	852	100	118	150	162	236	207	245	287	285	286	244	243	242	281	260	294	291	292	251	218	229	5773
007	127	10	30	36	36	35	36	48	46	51	39	62	56	38	51	41	53	51	63	67	45	38	1059
008	167	33	21	13	19	20	18	27	23	16	18	26	26	24	28	21	28	35	31	27	18	25	664
012	71	8	7	13	10	15	11	9	10	7	4	8	8	6	4	6	9	18	8	10	4	9	255
014	76	11	9	17	15	25	15	19	15	25	18	13	16	26	27	19	15	24	21	11	24	22	463
015	1254	157	191	243	195	261	259	293	272	319	255	252	298	290	317	267	362	404	413	328	290	283	7203
016	459	68	79	78	83	126	87	163	94	113	91	97	126	113	159	136	180	151	141	141	180	148	3013
019	75	10	9	22	13	12	4	18	19	15	9	8	17	17	8	12	9	16	13	16	18	5	345
023	36	5	2	2	3	4	4	4	3	2	5	0	6	3	1	1	4	1	4	2	3	2	97
024	932	121	161	164	173	228	183	218	257	245	219	185	201	201	224	240	244	240	239	242	217	240	5374
026	35	5	12	3	3	6	5	12	5	7	2	4	3	5	7	7	4	6	5	4	4	0	144
027	48	9	1	4	3	3	7	9	12	11	7	8	11	11	5	16	16	13	9	15	11	18	247
028	109	5	9	11	8	8	8	11	15	7	14	13	10	14	13	13	11	15	15	8	7	5	329
029	1454	207	250	269	300	327	261	317	296	307	254	284	247	239	224	252	231	224	255	259	257	238	6952
030	870	101	151	171	182	188	178	219	217	253	190	180	192	184	209	167	218	232	220	197	201	190	4910
033	1055	172	199	208	228	230	178	213	253	255	238	185	184	230	192	151	206	169	205	205	189	206	5351
034	459	65	69	85	80	83	72	66	67	70	76	89	79	77	69	71	79	103	107	71	67	51	2055
036	436	57	78	62	89	109	92	110	111	80	77	90	92	100	96	113	173	149	128	117	105	107	2571
037	350	51	45	48	59	50	50	72	63	64	67	64	41	50	62	53	64	80	78	63	75	53	1602
038	69	9	13	19	20	21	18	21	16	23	15	14	17	12	19	15	14	23	20	19	12	9	418
040	1082	118	147	149	146	175	176	277	223	263	220	231	259	246	232	232	259	295	310	305	289	288	5922
042	354	76	68	71	70	83	69	99	105	128	74	79	102	108	90	100	108	99	69	103	126	140	2321
043	903	100	173	170	201	264	249	368	264	235	257	242	262	188	251	164	166	304	251	187	216	238	5653
044	146	27	21	26	22	20	22	25	17	15	17	18	19	16	16	11	13	19	29	23	19	19	560
047	665	68	68	73	95	82	91	126	123	141	122	124	143	143	135	103	150	137	168	139	136	126	3158
048	176	32	41	21	13	20	10	21	10	9	11	4	10	14	6	5	8	11	12	8	3	8	453
049	527	70	90	83	97	131	91	131	99	97	96	70	92	108	127	104	104	120	127	111	99	85	2659
051	71	6	8	10	6	9	11	13	13	14	22	18	15	14	10	22	7	7	11	6	9	7	309
052	2565	306	441	373	507	543	441	581	542	493	426	453	495	481	580	591	701	645	634	688	610	564	13660
053	481	51	55	97	108	122	86	96	87	105	78	79	70	91	93	83	97	94	81	77	66	68	2265
054	69	16	14	19	15	15	18	15	14	23	28	19	22	20	15	11	26	14	30	25	33	38	499
055	468	50	64	68	52	67	81	94	94	88	105	91	49	71	72	55	90	93	80	85	71	67	2055
056	569	58	77	84	68	94	75	84	122	117	105	95	94	118	96	54	84	100	95	70	77	64	2400
057	168	27	32	27	44	37	35	38	32	17	34	41	39	16	13	25	36	25	14	22	12	7	741
059	74	8	12	10	10	11	8	12	12	8	5	6	13	13	8	14	5	11	8	8	8	14	278
060	1164	167	152	141	119	149	138	130	101	108	114	121	101	95	89	93	130	118	116	132	123	108	3709
062	794	126	146	160	158	156	151	188	196	165	163	189	188	165	174	154	202	196	212	241	240	208	4572
063	134	11	17	26	22	20	45	31	31	37	48	39	25	49	39	47	39	38	41	33	42	47	861
065	149	32	23	26	19	18	7	22	19	12	19	20	17	15	8	11	15	25	13	16	26	19	531
066	130	14	7	12	17	25	16	19	6	27	15	16	10	14	16	16	21	17	25	23	16	8	470
068	143	22	23	26	16	12	32	27	20	13	22	20	20	29	25	14	26	24	25	21	27	22	609
069	26	6	5	6	4	4	3	4	2	6	1	0	1	1	2	1	2	0	1	2	2	2	81
070	669	76	102	108	117	176	162	190	168	177	149	155	153	167	161	165	220	224	170	128	178	163	3978
071	129	14	19	18	14	15	10	21	13	10	25	14	17	20	18	25	23	24	17	25	32	23	526
072	687	76	89	112	114	112	85	122	103	97	69	78	73	63	80	91	107	101	96	79	60	64	2558
073	1709	245	280	281	305	323	275	410	318	364	286	288	292	305	337	270	335	310	275	287	304	316	8115
074	1125	131	179	203	221	251	207	260	209	227	230	200	197	186	213	185	203	226	197	172	152	138	5312

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																							TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
075	202	44	38	29	26	33	24	29	25	24	25	22	32	32	20	20	29	23	19	37	34	23	790	
076	126	19	22	29	36	22	27	28	24	22	28	21	14	22	17	27	15	16	26	13	12	10	576	
079	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	3	
081	627	107	141	161	167	148	177	201	188	204	160	183	179	143	186	149	190	256	300	317	252	192	4628	
082	187	29	23	25	39	35	23	18	21	29	30	19	22	10	22	30	35	26	19	28	21	38	729	
083	873	101	134	149	169	160	145	171	167	176	172	141	123	102	115	102	136	147	138	118	83	120	3742	
084	760	85	101	117	88	161	120	134	128	136	112	111	128	145	162	118	167	189	196	184	148	150	3640	
086	57	8	8	11	10	3	8	15	3	13	7	13	7	6	2	4	8	3	6	4	8	7	211	
087	18	2	5	6	8	3	4	6	3	4	3	7	5	0	5	7	5	9	3	3	6	5	117	
089	170	23	24	29	36	36	36	42	70	35	44	50	43	51	35	47	48	48	37	55	54	59	1072	
091	403	57	56	47	44	63	56	45	37	39	42	42	40	19	21	26	25	18	20	20	15	19	1154	
092	345	50	55	68	47	61	75	71	65	70	46	49	59	46	38	25	40	36	38	40	38	32	1394	
095	166	29	29	29	23	34	37	39	38	43	48	46	30	41	51	46	37	47	32	51	50	41	987	
096	360	53	50	53	42	65	64	63	82	60	75	65	41	41	56	54	56	74	57	75	74	49	1609	
099	655	87	137	133	123	139	130	146	148	141	130	144	147	179	173	182	214	212	223	231	156	136	3966	
100	415	58	76	76	57	68	50	71	60	68	91	77	75	67	57	75	71	51	43	37	28	34	1705	
101	399	50	65	63	64	62	55	69	68	74	69	67	78	85	53	55	83	64	69	71	54	57	1774	
102	161	23	23	26	29	44	50	39	41	43	50	44	37	43	24	30	31	37	18	46	41	43	923	
104	267	28	30	34	38	56	39	46	36	39	36	33	32	47	36	41	39	34	26	34	42	43	1056	
105	210	25	33	29	35	34	25	31	30	21	26	28	21	24	26	22	26	13	20	27	18	19	743	
106	485	76	49	59	39	58	52	59	44	79	64	82	95	76	66	73	83	78	69	69	63	79	1897	
108	554	70	80	88	111	102	101	144	116	122	134	89	128	125	145	143	161	146	189	145	124	122	3139	
109	94	21	14	21	19	30	25	28	20	19	9	16	15	14	11	17	22	21	18	6	22	12	474	
110	276	73	76	56	48	71	58	44	61	59	53	62	76	44	41	34	44	37	37	36	31	21	1338	
111	197	21	24	22	26	27	27	22	34	25	26	18	27	32	36	27	22	29	33	42	25	30	772	
112	193	26	32	38	42	34	27	35	22	39	35	26	22	27	31	29	46	43	35	40	31	18	871	
114	903	129	139	171	168	255	195	262	260	246	199	199	199	182	198	191	212	221	232	193	179	191	5124	
116	521	46	71	67	86	76	105	124	119	142	86	98	117	95	110	93	85	118	117	96	94	85	2551	
117	52	9	4	7	8	11	14	2	9	7	7	5	8	13	7	6	16	9	12	9	5	7	227	
118	440	58	50	82	71	88	76	73	68	98	69	76	84	79	67	77	93	92	71	73	63	60	2008	
119	848	96	127	138	111	122	161	169	205	248	263	212	222	202	237	227	341	290	276	257	311	303	5366	
122	257	70	65	50	41	48	33	45	35	29	22	22	38	22	27	21	28	31	27	29	16	34	990	
123	1372	232	240	212	181	206	161	218	198	224	199	181	178	165	178	160	194	183	162	231	176	182	5433	
124	303	26	46	53	59	71	61	86	64	72	76	79	82	91	87	105	82	72	73	76	75	98	1837	
125	104	14	16	18	14	18	13	16	20	16	18	15	13	14	13	20	15	16	26	21	15	22	457	
126	2132	317	331	266	232	211	173	195	167	149	125	157	145	137	150	124	152	176	183	151	94	126	5893	
127	47	3	5	2	4	3	1	1	4	4	12	5	7	8	5	4	7	10	6	5	6	2	151	
128	808	113	142	156	184	228	159	290	291	356	317	298	369	368	374	345	436	369	372	327	296	312	6910	
131	273	14	26	28	42	32	26	34	27	28	29	10	20	22	27	29	51	43	42	18	22	24	867	
132	332	47	49	77	84	90	63	99	109	133	97	97	115	102	129	127	200	247	181	133	109	102	2722	
134	483	80	62	69	73	88	103	122	104	140	120	109	110	137	125	104	140	182	158	132	133	104	2878	
135	317	29	45	47	51	56	75	123	98	102	89	109	139	101	128	133	136	120	131	161	118	119	2427	
136	237	40	20	26	22	28	22	29	21	24	23	19	22	24	26	24	26	18	27	22	23	17	740	
137	1765	205	261	295	286	326	296	385	325	329	344	311	335	264	259	266	309	365	372	359	236	238	8131	
138	529	67	87	71	98	93	71	94	79	92	84	74	75	76	74	58	81	112	101	86	82	64	2248	
139	122	19	12	14	12	20	7	22	9	21	16	12	15	23	15	11	15	12	12	12	9	1	411	
140	103	17	11	20	17	19	14	10	15	10	8	8	13	12	12	10	15	17	12	13	5	9	370	
141	493	47	67	78	83	105	80	114	92	109	104	102	115	120	124	98	108	140	129	129	116	94	2647	
142	13	2	0	6	6	3	3	1	5	7	5	2	3	4	3	5	3	6	4	2	0	5	88	
144	489	75	94	87	86	89	101	98	90	98	97	74	82	72	68	82	82	96	89	81	83	84	2297	

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
147	3	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	0	9
148	150	26	29	15	15	28	19	23	31	27	36	32	39	29	16	23	26	27	29	39	36	44	739
149	55	9	3	5	3	7	4	5	4	5	2	4	5	3	8	5	7	2	2	3	1	3	145
150	118	10	8	16	17	22	35	43	62	62	40	45	43	46	57	52	62	66	75	74	57	45	1055
152	209	30	21	14	15	29	24	47	28	28	23	29	33	19	25	20	27	29	28	27	24	36	765
156	1228	154	147	212	206	196	182	214	205	182	207	189	205	225	184	176	238	232	205	229	188	190	5394
157	53	7	5	8	4	5	13	6	8	7	8	6	4	5	6	3	4	5	7	8	3	3	178
159	105	10	6	12	13	11	16	12	17	8	10	14	11	14	7	11	15	9	5	7	13	6	332
160	413	65	74	71	57	102	104	137	129	150	128	111	105	129	138	126	147	146	171	144	131	122	2900
162	140	11	21	24	17	22	24	20	26	22	20	27	26	21	24	28	29	20	21	27	14	17	601
163	1	0	0	1	0	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	8
164	286	16	41	41	53	51	34	43	43	27	22	32	34	25	34	23	28	16	11	31	41	30	962
165	1095	161	163	146	135	158	134	117	111	91	115	99	117	103	107	67	125	115	103	143	107	94	3606
166	430	76	106	94	83	116	76	93	88	100	116	89	107	91	89	76	111	90	118	153	102	106	2510
168	26	5	3	7	5	4	8	10	10	16	14	11	5	2	6	8	7	5	12	9	11	10	194
169	142	14	22	16	24	30	17	27	26	36	38	26	24	19	38	41	41	58	54	39	42	31	805
171	73	3	6	7	5	6	4	0	10	7	9	10	13	4	3	2	5	5	6	3	5	1	187
172	671	65	78	81	91	71	61	95	110	75	68	64	67	95	82	67	97	84	87	75	68	62	2314
173	262	27	30	26	45	45	27	50	37	43	38	24	31	30	34	23	41	36	46	30	24	39	988
174	400	68	74	66	106	86	98	97	87	97	94	91	91	76	90	87	147	133	108	155	159	125	2535
175	437	93	93	78	58	79	65	85	81	83	84	61	61	73	68	48	74	67	69	72	67	76	1972
177	150	30	25	24	27	36	34	38	26	22	23	24	16	16	11	19	28	18	18	17	21	26	649
178	52	4	3	8	5	9	8	6	3	8	4	6	4	4	11	5	9	6	8	4	6	7	180
180	797	108	100	111	141	146	134	156	112	141	127	114	146	141	150	118	142	166	146	138	167	148	3649
181	362	41	51	55	55	59	51	73	74	54	58	69	52	44	47	51	66	79	79	53	63	63	1599
182	557	83	127	128	166	133	116	128	137	155	150	99	134	101	112	111	154	165	152	100	124	113	3245
184	134	19	20	32	28	28	23	37	48	39	37	37	39	53	55	28	35	41	40	46	30	25	874
185	45	4	5	3	4	5	2	7	5	2	4	2	1	4	5	2	4	6	5	5	4	4	125
186	32	2	3	3	7	4	5	3	2	6	9	4	3	11	7	6	5	8	4	5	6	3	138
187	112	16	24	19	14	25	17	16	19	27	27	28	37	25	30	27	24	36	25	21	26	25	620
188	502	52	71	77	80	86	73	114	91	78	71	79	97	98	104	85	111	108	110	91	114	75	2367
190	121	19	21	20	29	29	37	43	42	42	41	40	36	48	58	49	50	55	43	50	52	45	970
191	65	8	8	4	8	9	7	5	8	5	9	5	12	8	6	10	9	9	14	21	18	10	258
192	293	31	46	56	48	49	24	53	42	61	45	34	40	31	67	46	32	59	49	44	36	38	1224
193	117	18	13	12	14	22	22	16	14	16	16	19	10	16	11	9	10	11	16	18	19	9	428
194	99	20	13	19	16	13	18	11	13	21	16	18	14	21	23	16	12	17	10	15	9	11	425
196	29	6	0	4	0	3	3	2	6	1	2	2	4	4	3	1	9	8	1	6	3	1	98
198	725	102	86	123	128	116	128	130	137	129	135	111	117	84	76	76	89	82	101	103	104	79	2961
200	745	89	98	100	82	106	94	137	117	118	104	93	95	92	95	93	119	103	80	64	81	72	2777
201	91	14	9	5	9	9	2	11	3	2	10	3	6	7	3	3	5	4	4	3	3	3	209
202	259	36	23	25	31	21	22	22	32	15	17	21	19	21	16	21	23	18	21	10	20	12	705
203	170	21	24	33	35	43	28	31	48	22	35	39	25	52	19	30	40	28	18	12	23	11	787
204	506	75	86	54	64	77	63	107	102	81	108	88	94	116	86	88	92	74	103	134	84	73	2355
205	310	46	40	32	30	49	30	34	36	32	49	51	62	54	41	39	49	41	47	67	52	29	1220
206	1590	210	251	276	309	335	411	536	504	512	461	494	457	448	431	441	626	590	582	493	416	394	10767
208	164	24	29	18	9	9	8	26	22	16	19	12	15	15	26	12	18	30	15	19	11	14	531
209	474	67	71	74	68	62	69	80	74	81	75	97	74	65	53	57	59	72	59	50	54	37	1872
210	1526	207	220	238	226	263	286	356	324	363	403	373	325	335	368	344	367	399	370	420	336	306	8355
211	871	101	138	149	154	177	190	236	214	270	251	221	214	196	262	220	300	287	284	238	216	222	5411
212	157	15	20	21	18	29	30	30	24	24	17	19	17	23	25	19	25	28	34	22	25	23	645

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CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
213	21	5	3	3	4	3	2	3	1	3	3	0	2	0	2	0	2	1	3	4	2	1	68
215	381	51	98	104	74	103	132	134	117	119	97	92	87	103	90	96	101	112	121	96	88	73	2469
216	55	10	11	16	12	15	24	12	13	18	17	11	21	24	10	10	17	14	13	18	23	22	386
217	77	5	12	6	5	15	10	13	11	7	8	9	8	4	5	6	7	4	7	6	4	5	234
218	18	1	0	4	6	2	2	3	2	1	1	3	3	1	6	1	1	1	3	4	0	0	63
219	940	142	133	185	146	173	158	204	201	177	156	167	154	169	153	148	206	200	257	191	172	164	4596
220	1261	157	204	243	243	255	293	384	401	403	384	413	368	346	389	328	417	437	429	390	349	319	8413
221	363	46	50	57	72	71	54	61	69	86	81	70	78	65	76	49	81	76	72	77	102	87	1843
222	1432	177	229	207	211	217	207	306	283	334	309	293	325	292	296	250	291	383	308	308	283	204	7145
223	194	15	22	36	48	48	35	41	50	56	45	30	29	32	47	64	51	60	75	64	36	24	1102
224	820	132	169	133	122	140	215	263	289	286	248	266	267	290	308	303	335	347	314	297	248	240	6032
225	91	21	23	24	17	22	22	32	21	27	32	14	17	15	22	10	22	23	23	11	16	27	532
226	201	25	31	29	18	29	29	24	24	14	11	17	10	18	14	14	17	14	10	11	7	4	571
227	169	26	32	32	31	38	29	43	23	29	30	37	31	33	26	36	30	35	37	28	41	37	853
228	249	41	31	45	54	48	43	49	47	36	43	43	30	42	39	32	26	41	42	43	33	39	1096
229	357	47	65	64	78	84	99	131	117	140	104	105	98	95	78	85	115	106	107	104	83	73	2335
231	5	1	2	3	0	1	1	1	1	2	3	0	1	0	0	1	0	1	3	0	1	1	28
232	127	21	11	24	13	28	33	32	42	44	25	27	18	39	23	29	19	30	24	21	14	20	664
234	2	1	0	1	2	1	1	2	0	0	2	0	0	0	0	0	2	1	0	1	0	0	16
235	348	47	55	50	54	58	60	86	64	54	55	54	67	93	84	76	80	118	119	73	100	129	1924
236	293	56	50	61	42	44	36	49	32	23	33	27	38	29	20	18	25	25	39	24	32	24	1020
237	403	56	53	46	36	34	37	39	36	29	19	24	20	12	18	15	14	30	29	23	15	20	1008
238	93	8	15	8	4	14	8	16	18	14	17	13	9	15	20	10	22	12	15	13	14	14	370
239	1153	140	146	145	180	167	187	224	224	201	195	202	252	168	139	191	249	265	292	221	214	205	5360
241	455	63	44	63	73	76	76	95	89	89	90	128	107	99	96	83	94	116	87	59	74	85	2241
242	765	102	111	144	97	145	134	139	124	111	97	112	115	97	114	118	128	156	133	122	142	125	3331
244	474	68	84	62	83	110	95	114	79	114	127	103	87	67	81	59	107	110	120	119	129	122	2514
245	7	0	3	1	0	1	2	2	0	2	0	3	2	1	2	2	0	3	1	1	1	0	34
246	42	2	3	3	2	5	8	5	6	7	3	8	7	14	6	9	15	8	16	16	15	16	216
248	2056	265	357	369	408	481	450	597	632	713	660	569	577	548	604	551	749	673	741	651	659	606	13916
249	416	46	62	57	41	66	58	72	54	57	48	44	57	35	45	61	60	51	49	50	49	42	1520
250	781	77	115	113	117	160	114	206	169	182	167	147	125	175	150	154	177	170	142	142	138	172	3893
251	732	112	130	172	139	163	133	169	136	135	165	141	153	138	117	107	124	138	147	136	100	98	3585
252	330	72	79	50	61	69	57	60	56	56	60	46	49	64	80	68	66	74	72	73	73	62	1677
254	643	70	117	103	87	111	106	115	105	92	99	114	96	102	89	101	95	132	137	124	106	119	2863
256	232	24	30	39	26	42	30	49	33	54	52	34	52	52	54	61	55	64	57	52	51	72	1215
257	257	50	43	49	44	58	48	68	68	81	88	74	110	129	117	130	163	172	166	226	224	203	2568
258	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
260	33	6	3	3	2	0	4	3	2	3	1	1	1	0	0	1	0	2	0	1	0	0	66
261	729	102	94	72	80	79	61	77	76	81	84	59	58	62	58	57	59	52	60	65	52	43	2160
264	1248	168	174	178	176	193	204	234	252	221	225	259	250	209	226	202	269	233	225	206	196	193	5741
266	196	53	48	25	37	26	30	29	15	22	19	19	22	30	19	26	21	17	29	17	19	19	738
267	223	26	31	36	45	74	51	71	46	47	36	33	43	38	42	28	36	45	27	30	44	27	1079
269	532	68	86	102	98	134	108	148	146	95	121	94	95	72	109	77	106	113	109	92	86	95	2686
270	49	10	8	12	10	7	9	8	12	6	5	6	9	5	5	3	7	3	9	4	3	4	194
271	174	20	38	35	40	48	30	34	26	31	33	33	19	29	21	11	19	18	20	14	16	13	722
273	1473	156	210	243	188	209	210	301	300	341	307	295	359	325	302	303	371	322	286	297	303	290	7391
277	299	46	56	65	47	42	47	53	55	49	47	36	50	41	45	38	29	38	30	58	57	34	1262
278	0	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	5
279	208	29	30	44	56	51	27	39	44	53	34	28	34	31	30	24	34	44	23	39	17	25	944

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1977-																								
CLASS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
280	2169	295	316	323	396	387	429	506	415	480	442	495	565	515	518	392	600	576	652	620	628	530	12249	
281	112	24	39	40	50	49	39	61	62	61	52	57	47	58	49	59	73	79	65	43	46	31	1196	
283	195	33	42	46	64	67	39	73	89	67	81	89	85	73	67	66	102	116	101	79	56	45	1675	
285	702	78	111	109	126	152	111	160	113	139	126	116	134	109	95	96	121	156	110	105	97	103	3169	
289	50	9	4	5	8	7	3	6	3	6	5	3	4	7	7	12	5	8	7	12	8	6	185	
290	354	48	51	41	32	31	31	25	18	18	19	10	24	30	13	18	34	23	36	37	32	22	947	
291	9	0	2	1	2	0	2	2	1	0	2	0	0	0	3	0	0	1	2	1	2	1	31	
292	535	82	90	64	101	137	98	123	101	137	122	84	88	90	115	110	99	114	107	75	111	102	2685	
293	92	13	11	10	16	18	14	22	28	23	22	18	13	9	10	19	17	20	13	20	14	22	444	
294	991	101	168	167	157	200	211	231	201	191	178	186	178	206	195	185	237	212	209	134	188	136	4862	
295	9	0	2	3	3	3	1	0	2	2	1	0	0	2	3	1	0	2	1	2	1	2	40	
296	725	79	92	111	110	158	151	198	226	231	188	160	155	154	184	168	215	210	257	260	192	203	4427	
297	767	92	115	148	183	200	188	268	233	235	224	182	281	224	280	247	296	316	355	267	260	261	5622	
298	108	16	12	11	25	25	13	20	16	26	15	19	13	15	13	11	16	14	18	15	12	17	450	
299	206	38	40	25	20	34	32	35	26	28	24	33	11	20	15	22	20	20	25	19	19	21	733	
300	22	3	4	3	5	6	1	4	3	9	5	5	5	6	2	6	6	6	1	6	1	5	114	
301	151	16	29	17	27	32	32	26	42	44	44	39	42	36	52	30	43	46	53	56	55	53	965	
303	78	4	6	6	11	13	9	11	16	9	14	21	16	21	13	17	13	16	13	16	21	15	359	
305	48	5	15	5	10	7	9	10	6	6	3	9	11	13	4	8	10	10	14	10	11	10	234	
307	404	55	63	42	43	80	69	95	59	63	63	61	59	72	105	103	121	125	93	60	61	76	1972	
310	429	69	75	62	84	82	78	93	60	70	79	78	66	72	69	72	104	101	90	106	94	85	2118	
312	687	87	104	89	96	114	114	122	121	103	138	125	117	125	145	126	174	170	172	118	138	126	3311	
313	192	22	27	26	30	37	36	40	42	34	30	21	22	32	39	27	41	58	37	47	42	49	931	
314	9	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	12	
315	330	48	50	49	45	73	57	89	91	104	64	66	50	85	73	49	79	71	91	94	73	96	1827	
318	345	45	61	55	60	68	64	68	78	61	45	49	65	69	62	44	71	52	64	55	49	39	1569	
320	83	14	12	10	20	26	12	19	14	13	29	41	28	19	36	42	41	46	47	54	46	44	696	
322	75	9	14	10	6	14	9	8	6	11	10	10	4	3	13	11	8	5	7	8	4	8	253	
323	112	18	17	22	19	33	15	34	21	27	23	20	18	11	25	19	27	21	30	30	39	21	602	
324	608	78	107	104	83	114	115	171	134	128	130	113	108	146	148	104	148	119	132	154	166	139	3249	
326	18	3	4	2	5	6	6	7	8	6	11	9	18	8	11	12	15	11	9	12	17	12	210	
327	264	28	30	22	17	32	23	37	34	26	37	26	35	29	37	18	42	39	38	36	34	30	914	
329	20	2	5	5	7	3	3	3	0	6	4	3	3	8	4	2	2	3	3	2	2	0	90	
330	112	8	21	20	16	25	23	31	12	17	16	8	9	9	19	16	22	21	19	25	16	23	488	
331	110	8	21	7	13	23	4	14	13	15	6	8	7	6	13	9	17	17	9	14	8	10	352	
332	25	4	6	3	9	2	3	3	3	6	2	2	3	7	6	2	2	5	5	4	7	1	110	
333	115	20	22	23	26	24	26	32	24	24	25	25	24	26	25	19	30	25	27	21	23	30	636	
334	12	3	4	1	2	1	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	1	28	
335	192	30	24	28	19	32	33	26	19	23	20	25	27	21	29	26	23	31	24	24	19	28	723	
336	91	12	18	18	11	17	10	17	15	10	11	10	15	15	19	13	17	17	12	10	12	18	388	
337	124	26	15	22	9	17	15	16	13	15	15	10	7	10	11	18	21	27	22	20	18	23	474	
338	168	25	15	25	23	23	26	28	31	25	22	17	12	6	14	13	14	13	20	8	10	9	547	
340	1546	209	174	201	202	306	297	463	351	359	318	275	299	359	430	457	545	533	569	516	464	358	9231	
341	133	19	13	24	25	38	30	52	33	23	30	37	23	37	40	56	54	50	53	51	57	51	929	
342	196	9	25	21	23	44	21	30	37	28	35	44	47	38	61	46	73	66	68	87	72	62	1133	
343	215	18	20	18	35	37	33	44	35	45	13	31	26	38	38	30	47	54	55	61	58	35	986	
345	154	21	26	22	29	40	61	79	58	49	58	46	81	84	105	130	175	183	205	211	191	192	2200	
346	115	18	13	20	14	14	18	19	13	14	8	5	4	5	7	2	3	6	2	4	3	1	308	
347	68	10	8	11	9	15	18	20	17	14	14	10	17	19	19	21	33	21	28	25	35	33	465	
348	288	46	34	54	65	72	55	94	115	99	93	76	86	104	123	114	129	133	126	114	105	116	2241	

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CLASS	1977-																						TOTAL
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
349	44	9	2	9	7	12	12	13	14	10	17	8	7	26	23	17	16	15	16	25	17	23	342
351	233	47	40	46	42	71	72	122	100	90	88	73	78	98	85	93	101	132	130	111	107	110	2069
352	164	24	18	23	28	26	11	16	26	32	18	19	11	13	16	15	17	22	11	11	10	12	543
353	169	29	20	20	19	14	14	14	19	15	16	21	17	25	15	15	17	25	18	15	19	13	549
355	250	21	34	50	36	33	30	34	19	29	25	17	23	15	10	16	15	18	7	19	10	14	725
356	489	64	65	83	62	87	78	109	98	112	104	108	84	110	112	110	128	131	125	67	91	98	2515
358	64	8	7	15	28	15	21	26	24	31	32	22	34	43	41	30	36	56	33	19	30	30	645
359	827	111	117	122	151	158	158	190	226	170	186	160	160	152	146	120	186	202	189	217	224	184	4356
360	247	27	33	44	52	64	40	59	47	45	42	48	43	39	46	31	45	26	30	34	31	34	1107
361	544	72	93	92	87	129	106	153	105	118	131	112	103	139	146	148	205	174	193	197	193	190	3430
362	749	87	120	146	160	163	211	254	266	298	274	214	272	301	324	314	404	383	483	483	428	479	6813
363	117	13	26	23	20	36	30	43	28	29	26	36	24	22	30	32	35	32	38	39	41	29	749
365	68	10	12	8	8	8	8	19	11	23	19	31	33	28	34	37	40	34	38	30	25	33	557
366	516	76	96	79	80	71	96	91	93	81	67	71	79	94	98	77	102	98	84	93	66	54	2262
367	211	21	24	34	29	50	31	45	65	40	59	63	30	38	38	38	38	38	35	32	29	23	1011
368	249	35	48	40	40	44	54	48	56	56	56	58	65	37	38	53	62	55	52	66	67	47	1326
369	198	23	21	32	19	26	39	30	22	30	24	27	27	45	30	33	47	32	38	31	36	42	852
370	73	17	15	13	18	18	13	30	19	19	23	20	12	43	57	42	62	54	55	53	44	46	746
372	78	15	22	18	15	14	31	34	46	31	16	24	28	32	28	31	27	23	21	22	22	36	614
373	86	10	12	4	6	7	9	6	9	6	9	5	9	9	7	2	4	9	19	8	11	4	251
374	217	35	33	51	30	33	40	47	40	32	34	28	29	17	27	31	48	23	34	29	25	23	906
375	92	15	14	14	23	19	14	36	21	35	30	19	26	36	50	48	46	59	47	32	43	42	761
376	187	33	24	20	20	22	18	16	22	16	22	22	16	17	21	16	17	10	8	9	5	9	550
377	193	25	27	23	10	17	16	31	13	13	15	14	12	12	12	6	4	6	11	8	8	3	479
378	193	21	25	26	45	32	36	40	43	55	51	44	35	33	48	26	47	31	41	34	37	33	976
379	319	52	55	47	75	82	102	128	98	103	94	54	82	108	123	111	148	126	121	110	92	109	2339
380	48	3	4	8	11	15	17	15	32	41	23	29	34	22	27	44	43	26	39	30	25	16	552
381	357	42	64	50	56	69	49	102	85	59	69	69	65	56	72	81	151	79	87	56	91	93	1902
382	52	7	12	15	18	22	19	26	25	39	30	39	25	43	55	61	73	94	88	70	71	87	971
383	287	34	37	56	62	73	92	109	107	121	84	92	93	104	83	75	101	122	122	106	68	57	2085
384	252	41	39	59	56	53	49	53	57	48	51	46	65	56	44	33	47	36	32	55	47	35	1254
385	82	11	21	23	22	49	59	49	57	63	34	39	57	42	55	46	87	80	75	72	98	91	1212
386	44	16	14	14	13	16	12	21	18	19	13	14	10	9	10	16	10	14	16	17	15	10	341
388	27	2	10	4	5	3	3	2	5	10	2	4	9	4	8	3	4	8	5	2	1	1	122
392	286	49	31	47	52	46	47	50	42	29	43	44	48	50	34	33	59	63	54	48	41	36	1232
396	438	36	47	67	39	60	63	52	64	70	40	35	52	29	47	38	81	62	43	33	36	48	1480
398	39	5	5	12	7	14	9	12	10	7	8	9	14	10	19	15	19	24	19	19	30	16	322
399	55	8	5	5	5	8	3	9	13	10	16	16	16	21	7	13	19	13	11	24	13	14	304
400	167	21	52	53	31	43	35	43	39	40	37	47	35	59	43	37	42	39	34	23	29	37	986
401	366	46	46	67	70	68	80	99	115	134	102	83	114	84	92	56	94	156	137	153	114	101	2377
402	64	15	16	21	30	24	16	32	26	37	27	26	28	20	31	33	43	32	39	23	26	18	627
403	1065	162	184	206	233	266	217	259	239	204	212	203	210	210	214	201	214	209	211	197	192	195	5503
404	373	45	56	46	73	92	78	97	117	108	93	105	90	106	88	95	88	101	98	87	97	85	2218
405	845	99	137	98	119	180	142	205	186	223	208	210	150	160	222	156	191	215	153	165	198	183	4445
406	151	17	20	24	13	22	15	27	20	27	21	17	6	15	18	12	10	14	13	20	14	19	515
407	110	12	19	12	28	20	15	12	18	29	22	17	11	10	6	22	19	20	23	19	8	15	467
408	411	52	64	71	97	79	59	74	87	107	74	53	71	67	58	67	91	87	54	80	51	58	1912
409	216	22	30	42	67	54	49	46	58	52	44	40	27	34	33	55	57	47	63	42	50	37	1165
410	165	27	23	24	21	27	35	46	43	45	35	38	31	51	46	34	47	49	59	60	53	61	1020
411	404	56	66	65	76	100	93	98	130	79	106	113	82	96	120	103	118	121	107	95	78	74	2380

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CLASS	1977-																					TOTAL	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003
412	32	5	6	8	4	6	4	4	10	7	7	11	4	9	6	10	8	6	11	12	9	3	182
413	22	2	1	2	4	2	1	1	1	3	3	1	5	0	5	1	3	4	7	2	0	2	72
414	1403	185	190	213	213	222	238	224	224	261	260	219	229	225	217	195	208	223	256	164	194	178	5941
415	404	61	59	63	30	45	63	40	30	42	46	50	49	51	51	29	32	30	50	59	64	66	1414
416	468	66	63	74	62	77	58	68	54	39	58	69	64	68	57	41	48	62	85	70	75	66	1792
417	805	140	135	160	147	138	150	151	106	140	121	134	122	118	118	107	119	125	155	155	153	127	3626
418	268	34	43	39	23	46	31	30	44	32	45	36	37	40	31	32	35	25	47	46	37	37	1038
419	49	6	9	7	11	12	7	9	13	14	8	3	13	7	12	10	7	11	12	6	9	14	249
420	115	23	12	8	3	12	7	20	14	20	13	8	18	16	8	11	11	13	9	11	25	21	398
422	784	119	111	96	123	122	132	147	146	169	188	180	181	211	178	178	213	213	197	221	191	198	4298
423	495	80	68	70	48	64	66	67	63	56	65	61	76	61	69	44	66	66	56	72	67	63	1843
424	548	84	105	98	109	126	136	209	184	194	196	195	176	213	251	334	394	455	389	490	476	448	5810
425	960	148	143	154	137	168	201	202	177	158	148	152	150	151	142	132	157	133	129	118	115	93	4068
426	747	96	100	129	105	133	140	204	181	181	143	144	120	149	163	178	183	239	239	228	179	152	4133
427	798	122	109	148	110	147	119	144	127	136	129	113	130	134	123	132	166	161	166	154	134	143	3645
428	1867	264	268	351	334	330	348	418	403	353	335	338	342	353	351	344	398	409	383	380	304	351	9224
429	173	34	31	27	25	24	27	32	24	28	35	34	31	42	94	43	45	43	48	40	40	51	971
430	199	45	28	33	26	29	37	19	35	36	18	18	22	32	32	22	41	39	43	35	46	40	875
431	336	65	69	61	61	62	51	64	59	51	58	49	64	59	62	44	75	83	88	90	57	82	1690
432	283	57	58	35	47	41	39	34	31	29	30	23	27	18	15	21	24	27	32	27	24	25	947
433	655	93	137	139	131	132	151	160	152	213	196	170	183	131	171	150	245	231	179	221	163	151	4154
434	738	103	130	123	109	157	136	189	142	162	170	200	161	163	189	180	228	223	228	164	178	181	4254
435	462	74	79	55	66	99	92	118	116	114	133	153	155	171	191	248	368	387	320	390	299	320	4410
436	270	38	58	35	49	56	69	81	53	78	72	89	93	87	114	116	143	121	105	113	79	113	2032
438	89	21	11	21	16	24	18	16	19	25	30	25	34	48	29	25	53	61	78	103	90	116	952
439	539	61	87	102	112	148	162	180	188	164	187	161	183	177	188	189	246	194	274	249	234	198	4223
440	222	37	37	48	50	75	53	69	73	85	64	69	64	62	68	71	78	71	80	63	57	62	1558
441	219	31	31	59	71	73	72	83	92	86	79	70	96	84	76	83	91	74	86	85	79	78	1798
442	130	17	25	33	20	26	25	35	29	19	22	24	32	42	28	27	49	57	46	40	19	20	765
445	25	4	4	1	5	3	4	3	4	2	4	2	3	5	3	6	5	11	7	5	5	6	117
446	953	104	103	135	141	185	158	221	243	244	245	220	243	206	225	178	260	242	291	257	266	250	5370
449	43	12	10	11	4	5	7	1	1	7	3	0	3	4	1	5	2	1	2	1	4	5	132
450	72	15	4	7	10	12	8	20	14	14	16	18	7	17	18	21	28	53	68	45	39	16	522
451	583	56	76	100	105	131	117	122	124	126	107	142	94	103	109	113	107	124	127	154	123	111	2954
452	214	33	26	46	58	47	35	28	47	32	47	41	42	34	36	22	23	24	35	42	13	23	948
453	37	6	5	9	7	2	5	8	5	11	6	4	5	7	5	4	2	2	5	1	4	4	144
454	392	56	61	89	60	75	72	84	98	70	95	62	71	52	75	59	87	70	77	98	93	79	1975
455	292	31	37	23	29	49	58	70	47	64	71	55	46	74	100	77	105	116	119	96	117	108	1784
460	33	11	6	10	6	3	5	5	12	12	11	6	6	10	17	2	11	12	13	11	10	4	216
462	31	7	4	9	8	13	7	10	8	2	11	19	12	12	6	5	6	10	9	9	9	0	207
463	115	10	24	25	16	33	24	38	26	37	39	37	50	31	45	50	94	86	106	105	100	99	1190
464	172	15	20	16	18	25	22	33	22	21	19	15	24	18	16	26	19	23	23	35	14	21	617
470	78	6	6	9	8	12	9	16	18	7	8	11	13	8	7	6	8	7	5	5	5	5	257
472	186	19	22	26	35	24	30	41	66	41	40	48	49	46	47	48	75	59	48	42	44	42	1078
473	1286	119	162	204	166	210	211	326	368	386	382	368	450	483	450	431	541	447	376	370	363	362	8461
474	182	17	29	42	35	48	33	55	38	47	24	36	45	44	36	35	25	27	38	15	29	20	900
475	136	15	17	23	22	34	46	50	37	44	44	30	26	28	39	26	30	40	47	25	31	28	818
476	29	2	5	3	7	5	5	6	1	6	3	4	5	6	10	5	3	6	7	2	3	2	125
477	63	8	18	10	7	6	7	10	12	9	4	4	5	11	14	9	10	12	7	3	7	8	244
482	664	107	126	153	207	206	224	260	276	286	283	283	305	265	316	331	396	364	354	307	292	308	6313

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

1977-

CLASS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
483	11	2	2	4	2	5	4	2	2	5	3	1	5	2	1	3	5	9	9	2	8	2	89
492	66	6	8	8	11	8	7	13	17	6	6	13	5	16	15	11	15	12	18	9	9	6	285
493	232	29	28	43	46	49	29	39	43	55	61	45	44	33	33	30	53	43	37	27	28	33	1060
494	80	4	7	7	6	8	8	11	10	17	11	12	17	8	9	10	15	16	10	11	12	6	295
501	90	19	24	17	15	15	14	18	26	24	24	26	28	25	27	22	22	23	17	31	20	22	549
502	141	24	15	21	21	26	14	20	19	28	26	28	21	20	17	21	27	32	32	30	21	16	620
503	13	6	0	1	2	0	2	4	4	4	5	2	4	1	4	3	7	4	1	3	3	2	75
504	49	3	7	9	5	6	3	8	12	9	21	11	6	5	9	14	15	38	16	23	20	15	304
505	67	8	9	1	1	2	2	5	9	7	15	14	9	13	10	12	8	14	17	9	6	11	249
507	20	6	10	13	4	6	6	9	8	4	8	9	1	3	3	5	13	5	9	6	8	6	162
508	32	5	8	6	2	11	5	8	6	11	9	9	8	11	10	10	16	16	12	12	7	10	224
510	103	19	19	21	21	25	22	21	24	24	16	21	19	31	34	32	49	66	43	43	46	37	736
512	6	1	0	2	1	1	3	1	3	3	2	1	3	4	3	2	4	3	7	5	1	3	59
514	633	95	119	117	133	148	155	248	228	260	224	213	186	235	319	353	409	448	366	445	405	348	6087
516	45	13	9	9	8	8	3	7	13	12	8	10	10	11	11	11	13	10	11	11	10	11	254
518	9	3	0	3	3	3	0	2	0	0	2	1	2	2	3	0	2	1	2	5	1	1	45
520	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
521	203	29	25	26	20	16	28	22	16	18	29	29	22	22	16	21	32	28	17	23	18	23	683
522	36	5	4	8	2	8	7	3	6	2	5	5	3	12	10	5	6	9	7	8	6	12	169
523	169	29	25	20	21	17	24	26	31	27	25	38	25	39	26	32	45	38	17	38	33	34	779
524	363	60	40	39	36	44	38	52	49	56	56	43	52	54	57	55	81	56	54	60	59	60	1464
525	260	31	33	30	19	23	20	31	42	40	44	42	30	35	29	29	45	35	33	29	35	34	949
526	124	13	11	12	6	14	19	10	13	20	18	25	19	9	12	12	17	22	14	20	11	32	453
527	35	6	2	0	1	4	3	6	3	2	7	5	5	5	2	2	3	0	3	2	2	1	99
528	258	30	22	23	23	18	19	23	28	24	32	43	28	35	22	24	29	33	19	29	32	14	808
530	216	30	35	26	27	28	26	45	33	51	53	59	53	61	65	109	161	138	94	133	98	115	1656
534	23	1	5	3	4	5	3	7	7	5	4	4	3	3	2	5	8	2	4	2	2	2	104
536	129	14	18	15	16	22	23	28	31	35	43	29	29	48	81	88	145	173	121	136	105	115	1444
540	56	9	3	6	5	12	7	10	8	11	5	7	4	8	6	20	10	11	6	8	12	7	231
544	81	17	17	21	18	13	10	18	22	15	18	14	14	18	23	20	19	24	26	20	21	20	469
546	85	11	13	17	16	15	12	23	20	11	20	19	16	20	30	25	23	20	32	26	20	33	507
548	81	9	21	16	17	13	17	23	15	20	26	15	21	16	30	20	17	20	16	16	25	24	478
549	85	9	8	6	13	10	5	15	16	15	10	20	12	11	15	18	27	25	23	25	20	18	406
552	38	2	9	1	4	2	2	3	6	9	3	2	1	5	2	3	2	7	2	4	3	5	115
554	58	4	6	9	7	3	3	7	7	8	5	4	11	9	10	11	8	8	11	11	17	13	230
556	80	7	4	11	7	7	7	5	8	12	10	7	7	11	12	14	7	14	5	14	8	9	266
558	56	5	16	7	5	6	7	12	9	4	10	12	4	12	11	6	10	14	6	6	9	3	230
560	71	18	13	17	8	21	12	23	16	13	16	21	15	13	21	13	13	16	10	15	21	19	405
562	82	12	14	11	11	13	15	26	13	14	14	21	13	17	13	17	15	17	10	22	16	15	401
564	69	11	14	14	8	6	6	15	13	12	12	9	8	19	19	17	11	10	11	19	19	14	336
568	102	14	6	17	17	22	10	23	20	23	31	23	17	31	15	18	34	35	18	13	14	15	518
570	18	3	1	2	1	2	0	5	3	5	15	3	0	3	3	5	2	4	3	7	2	0	87
585	65	14	16	13	11	12	5	23	20	16	25	17	9	31	16	15	26	27	24	19	9	19	432
588	48	12	11	16	14	18	12	15	10	6	11	24	35	43	40	46	35	41	34	22	28	12	533
600	857	142	154	169	207	256	191	282	284	320	282	340	373	375	314	256	501	411	433	372	423	354	7296
601	346	33	39	51	64	74	82	85	76	97	111	66	75	111	110	90	125	100	99	108	84	93	2119
602	268	53	53	69	76	82	79	88	93	108	96	99	103	118	90	115	174	156	159	113	122	131	2445
604	1003	164	190	220	269	349	303	440	397	442	439	514	562	480	442	426	522	414	405	342	336	412	9071
606	561	91	143	153	207	213	209	249	239	292	344	386	440	427	462	547	606	580	520	437	385	444	7935
607	265	40	38	68	80	66	60	81	89	94	82	80	86	107	97	80	124	137	155	138	115	135	2217

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																				TOTAL			
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		2002	2003	
623	333	39	55	61	107	115	99	124	119	111	151	114	117	104	158	129	168	150	173	187	200	177	2991	
700	131	18	19	35	33	47	42	54	50	50	53	44	67	59	83	63	110	101	74	83	94	129	1439	
701	73	11	14	15	8	14	12	35	19	26	24	22	35	39	44	37	76	73	70	110	111	96	964	
702	171	25	22	39	32	31	43	63	39	42	45	44	47	38	64	65	77	77	62	75	103	121	1325	
703	4	0	1	2	2	2	5	8	3	5	7	9	8	7	11	23	18	26	17	20	26	26	230	
704	34	5	11	5	10	13	6	14	18	20	19	21	19	27	21	29	48	47	29	44	40	32	512	
705	47	8	13	13	12	18	17	25	29	30	35	47	50	24	49	77	109	191	154	125	136	143	1352	
706	0	0	3	1	1	4	4	6	12	15	11	16	13	23	29	22	53	31	31	32	38	44	389	
707	11	0	2	2	2	2	1	4	5	4	3	13	16	23	19	33	73	86	61	72	83	106	621	
708	126	13	28	20	13	20	15	40	23	22	25	31	28	20	32	33	34	42	29	20	32	21	667	
709	5	0	2	1	2	2	2	0	5	2	3	8	6	7	24	26	61	59	78	80	88	92	553	
710	15	4	8	3	2	6	7	4	7	8	5	11	9	19	20	29	40	26	33	29	20	31	336	
711	19	4	6	2	4	4	7	6	5	7	6	10	10	19	19	32	31	24	19	19	14	24	291	
712	10	2	5	2	4	4	2	11	9	1	6	7	5	9	15	15	28	11	9	14	11	8	188	
713	13	2	5	8	7	8	9	17	18	24	16	22	28	22	40	47	63	52	63	56	49	50	619	
714	38	7	6	6	10	19	10	19	7	18	17	7	21	23	32	30	40	27	29	31	26	33	456	
715	7	1	3	9	1	4	3	10	8	7	10	15	21	14	12	29	41	49	33	37	24	26	364	
716	4	0	1	0	1	2	3	3	1	0	3	0	4	5	3	9	10	4	4	17	29	29	132	
717	1	1	1	3	1	0	1	1	1	1	2	0	3	7	8	8	13	19	14	15	16	12	128	
718	0	2	0	0	0	0	0	0	0	1	2	1	1	3	5	3	3	9	9	7	3	10	7	66
719	0	0	0	0	0	0	1	0	0	0	0	1	0	5	3	4	8	3	7	7	14	13	66	
725	34	5	4	9	12	8	8	8	16	19	12	14	12	16	32	19	32	38	31	26	17	20	392	
800	2	0	0	1	3	2	2	1	1	2	1	2	3	5	4	8	30	25	22	19	20	18	171	
901	57	15	11	14	26	37	26	26	17	35	26	22	18	19	19	16	20	19	16	16	20	16	491	
902	33	7	11	3	23	30	8	8	5	6	4	5	6	6	2	12	9	4	11	2	4	5	204	
930	59	8	6	7	9	19	19	11	0	0	3	3	3	0	0	2	4	4	4	6	2	1	170	
968	325	39	52	42	32	49	53	54	46	1	0	0	0	1	0	2	0	1	1	0	0	0	698	
976	196	40	32	23	29	24	31	33	16	7	5	2	1	4	4	3	3	0	2	0	1	0	456	
984	632	74	91	96	80	134	106	120	76	0	0	0	0	0	0	0	0	0	1	2	1	3	1416	
987	53	6	8	6	8	8	13	9	7	3	0	0	0	0	0	0	0	0	0	1	1	0	123	
D01	44	4	1	5	4	10	7	6	20	22	9	13	17	10	19	24	27	27	29	32	21	6	357	
D02	360	83	70	103	79	106	100	110	122	156	101	172	178	188	205	195	300	253	210	154	208	179	3632	
D03	694	116	106	120	93	103	117	103	211	232	224	286	262	266	263	245	326	337	312	269	245	248	5178	
D04	81	12	30	30	38	39	46	33	39	49	51	69	58	73	88	71	93	74	95	84	113	59	1325	
D05	50	6	6	8	2	2	6	8	7	6	5	4	5	6	6	11	15	10	17	19	7	17	223	
D06	2078	352	345	371	396	413	355	351	447	536	539	713	578	717	652	582	735	676	742	651	694	580	13503	
D07	1072	150	169	155	225	230	196	241	232	231	236	369	323	312	396	262	341	284	359	330	258	308	6679	
D08	1158	208	249	223	251	225	265	268	340	411	393	459	446	491	447	383	550	469	538	404	339	458	8975	
D09	477	98	92	90	106	110	100	89	163	213	161	196	205	210	234	223	227	188	212	217	165	209	3985	
D10	662	106	110	127	103	133	129	118	157	234	192	269	278	282	201	200	291	262	230	204	199	158	4645	
D11	929	147	101	144	110	106	92	123	123	177	157	211	219	233	199	207	239	219	252	254	249	197	4688	
D12	754	119	98	101	154	253	267	246	343	331	361	390	344	351	361	290	374	285	356	281	243	269	6571	
D13	149	27	32	34	34	32	35	26	50	77	66	74	86	85	77	74	84	118	110	99	106	105	1580	
D14	349	48	68	63	67	78	78	88	110	129	117	166	138	180	178	185	212	181	235	180	183	193	3226	
D15	420	101	110	82	65	54	56	62	84	57	124	140	90	152	141	89	106	81	77	64	58	80	2293	
D16	142	22	33	26	36	32	29	21	63	42	57	48	55	49	80	63	82	74	102	51	60	88	1255	
D17	128	30	22	39	27	27	26	20	37	34	32	37	41	35	36	26	40	46	26	42	23	40	814	
D18	151	13	30	26	34	38	18	22	28	43	27	52	28	28	31	17	30	25	34	20	29	25	749	
D19	490	87	69	71	94	69	61	76	82	143	141	152	155	182	129	155	209	161	156	156	121	135	3094	
D20	137	32	24	37	28	26	30	22	56	62	55	82	81	90	73	95	114	90	82	59	28	78	1381	

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																				TOTAL		
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		2002	2003
D21	1423	278	208	236	231	285	261	330	366	516	475	482	564	549	495	461	676	512	543	485	386	340	10102
D22	396	79	76	57	68	84	84	118	114	90	97	108	116	128	139	94	97	116	102	97	107	98	2465
D23	753	113	109	78	103	109	89	91	123	227	179	169	222	230	174	186	240	232	285	210	206	209	4337
D24	608	125	137	123	160	149	151	169	184	194	229	242	235	232	230	200	245	220	222	248	199	185	4687
D25	728	83	132	63	106	76	80	81	67	83	111	111	153	141	123	127	144	142	145	125	156	147	3124
D26	320	43	51	55	54	65	67	78	73	121	125	111	154	159	200	179	234	183	275	328	272	257	3404
D27	159	18	16	9	15	13	10	11	14	19	6	9	18	21	20	26	49	55	38	40	42	37	645
D28	240	42	55	60	78	45	58	84	147	82	57	86	130	104	112	127	114	104	176	154	103	113	2271
D29	105	26	22	35	32	28	54	38	52	34	42	58	65	80	73	59	51	53	67	36	57	40	1107
D30	301	58	36	49	40	71	80	57	66	120	118	154	140	145	135	117	88	79	130	72	72	80	2208
D32	173	38	32	36	39	65	50	45	79	76	65	81	102	122	99	105	120	92	90	69	66	83	1727
D34	205	33	45	41	82	111	151	137	121	203	228	206	146	169	97	81	117	86	96	76	74	87	2592
D99	115	16	20	24	19	27	7	25	23	21	29	40	31	53	34	43	48	38	45	60	33	67	818
PLT	362	60	58	77	73	66	132	188	98	119	75	101	97	78	83	91	124	101	92	125	261	232	2693
TOTAL	159264		24929		27127		29143		34776		34784		35545		37042		43924		42916		38026		885947
		22168		26297		31102		36087		36655		34714		35927		34942		43256		40532		36791	

U.S. PATENT CLASSES AS OF 31-DEC-2003
TITLES ARRANGED IN CLASS NUMBER ORDER

UTILITY CLASSES

CLASS	TITLE
001	** Classification Undetermined **
002	Apparel
004	Baths, Closets, Sinks, and Spittoons
005	Beds
007	Compound Tools
008	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers
012	Boot and Shoe Making
014	Bridges
015	Brushing, Scrubbing, and General Cleaning
016	Miscellaneous Hardware
019	Textiles: Fiber Preparation
023	Chemistry: Physical Processes
024	Buckles, Buttons, Clasps, Etc.
026	Textiles: Cloth Finishing
027	Undertaking
028	Textiles: Manufacturing
029	Metal Working
030	Cutlery
033	Geometrical Instruments
034	Drying and Gas or Vapor Contact with Solids
036	Boots, Shoes, and Leggings
037	Excavating
038	Textiles: Ironing or Smoothing
040	Card, Picture, or Sign Exhibiting
042	Firearms
043	Fishing, Trapping, and Vermin Destroying
044	Fuel and Related Compositions
047	Plant Husbandry
048	Gas: Heating and Illuminating
049	Movable or Removable Closures
051	Abrasive Tool Making Process, Material, or Composition
052	Static Structures (e.g., Buildings)
053	Package Making
054	Harness
055	Gas Separation
056	Harvesters
057	Textiles: Spinning, Twisting, and Twining
059	Chain, Staple, and Horseshoe Making
060	Power Plants
062	Refrigeration
063	Jewelry
065	Glass Manufacturing
066	Textiles: Knitting
068	Textiles: Fluid Treating Apparatus
069	Leather Manufactures
070	Locks
071	Chemistry: Fertilizers
072	Metal Deforming
073	Measuring and Testing
074	Machine Element or Mechanism
075	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures
076	Metal Tools and Implements, Making
079	Button Making
081	Tools
082	Turning
083	Cutting
084	Music
086	Ammunition and Explosive-Charge Making
087	Textiles: Braiding, Netting, and Lace Making

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UTILITY CLASSES

CLASS	TITLE
089	Ordnance
091	Motors: Expansible Chamber Type
092	Expansible Chamber Devices
095	Gas Separation: Processes
096	Gas Separation: Apparatus
099	Foods and Beverages: Apparatus
100	Presses
101	Printing
102	Ammunition and Explosives
104	Railways
105	Railway Rolling Stock
106	Compositions: Coating or Plastic
108	Horizontally Supported Planar Surfaces
109	Safes, Bank Protection, or a Related Device
110	Furnaces
111	Planting
112	Sewing
114	Ships
116	Signals and Indicators
117	Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non-Coating Apparatus Therefor
118	Coating Apparatus
119	Animal Husbandry
122	Liquid Heaters and Vaporizers
123	Internal-Combustion Engines
124	Mechanical Guns and Projectors
125	Stone Working
126	Stoves and Furnaces
127	Sugar, Starch, and Carbohydrates
128	Surgery
131	Tobacco
132	Toilet
134	Cleaning and Liquid Contact with Solids
135	Tent, Canopy, Umbrella, or Cane
136	Batteries: Thermoelectric and Photoelectric
137	Fluid Handling
138	Pipes and Tubular Conduits
139	Textiles: Weaving
140	Wireworking
141	Fluent Material Handling, with Receiver or Receiver Coacting Means
142	Wood Turning
144	Woodworking
147	Coopering
148	Metal Treatment
149	Explosive and Thermic Compositions or Charges
150	Purses, Wallets, and Protective Covers
152	Resilient Tires and Wheels
156	Adhesive Bonding and Miscellaneous Chemical Manufacture
157	Wheelwright Machines
159	Concentrating Evaporators
160	Flexible or Portable Closure, Partition, or Panel
162	Paper Making and Fiber Liberation
163	Needle and Pin Making
164	Metal Founding
165	Heat Exchange
166	Wells
168	Farriery
169	Fire Extinguishers

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UTILITY CLASSES

CLASS	TITLE
171	Unearthing Plants or Buried Objects
172	Earth Working
173	Tool Driving or Impacting
174	Electricity: Conductors and Insulators
175	Boring or Penetrating the Earth
177	Weighing Scales
178	Telegraphy
180	Motor Vehicles
181	Acoustics
182	Fire Escape, Ladder, or Scaffold
184	Lubrication
185	Motors: Spring, Weight, or Animal Powered
186	Merchandising
187	Elevator, Industrial Lift Truck, or Stationary Lift for Vehicle
188	Brakes
190	Trunks and Hand-Carried Luggage
191	Electricity: Transmission To Vehicles
192	Clutches and Power-Stop Control
193	Conveyors, Chutes, Skids, Guides, and Ways
194	Check-Actuated Control Mechanisms
196	Mineral Oils: Apparatus
198	Conveyors: Power-Driven
199	Type Casting
200	Electricity: Circuit Makers and Breakers
201	Distillation: Processes, Thermolytic
202	Distillation: Apparatus
203	Distillation: Processes, Separatory
204	Chemistry: Electrical and Wave Energy
205	Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions
206	Special Receptacle or Package
208	Mineral Oils: Processes and Products
209	Classifying, Separating, and Assorting Solids
210	Liquid Purification or Separation
211	Supports: Racks
212	Traversing Hoists
213	Railway Draft Appliances
215	Bottles and Jars
216	Etching a Substrate: Processes
217	Wooden Receptacles
218	High-Voltage Switches with Arc Preventing or Extinguishing Devices
219	Electric Heating
220	Receptacles
221	Article Dispensing
222	Dispensing
223	Apparel Apparatus
224	Package and Article Carriers
225	Severing by Tearing or Breaking
226	Advancing Material of Indeterminate Length
227	Elongated-Member-Driving Apparatus
228	Metal Fusion Bonding
229	Envelopes, Wrappers, and Paperboard Boxes
231	Whips and Whip Apparatus
232	Deposit and Collection Receptacles
234	Selective Cutting (e.g., Punching)
235	Registers
236	Automatic Temperature and Humidity Regulation

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UTILITY CLASSES

CLASS	TITLE
237	Heating Systems
238	Railways: Surface Track
239	Fluid Sprinkling, Spraying, and Diffusing
241	Solid Material Comminution or Disintegration
242	Winding, Tensioning, or Guiding
244	Aeronautics
245	Wire Fabrics and Structure
246	Railway Switches and Signals
248	Supports
249	Static Molds
250	Radiant Energy
251	Valves and Valve Actuation
252	Compositions
254	Implements or Apparatus for Applying Pushing or Pulling Force
256	Fences
257	Active Solid-State Devices (e.g., Transistors, Solid-State Diodes)
258	Railway Mail Delivery
260	Chemistry of Carbon Compounds
261	Gas and Liquid Contact Apparatus
264	Plastic and Nonmetallic Article Shaping or Treating: Processes
266	Metallurgical Apparatus
267	Spring Devices
269	Work Holders
270	Sheet-Material Associating
271	Sheet Feeding or Delivering
273	Amusement Devices: Games
276	Typesetting
277	Seal for a Joint or Junction
278	Land Vehicles: Animal Draft Appliances
279	Chucks or Sockets
280	Land Vehicles
281	Books, Strips, and Leaves
283	Printed Matter
285	Pipe Joints or Couplings
289	Knots and Knot Tying
290	Prime-Mover Dynamo Plants
291	Track Sanders
292	Closure Fasteners
293	Vehicle Fenders
294	Handling: Hand and Hoist-Line Implements
295	Railway Wheels and Axles
296	Land Vehicles: Bodies and Tops
297	Chairs and Seats
298	Land Vehicles: Dumping
299	Mining or In Situ Disintegration of Hard Material
300	Brush, Broom, and Mop Making
301	Land Vehicles: Wheels and Axles
303	Fluid-Pressure and Analogous Brake Systems
305	Wheel Substitutes for Land Vehicles
307	Electrical Transmission or Interconnection Systems
310	Electrical Generator or Motor Structure
312	Supports: Cabinet Structure
313	Electric Lamp and Discharge Devices
314	Electric Lamp and Discharge Devices: Consumable Electrodes
315	Electric Lamp and Discharge Devices: Systems

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UTILITY CLASSES

CLASS	TITLE
318	Electricity: Motive Power Systems
320	Electricity: Battery or Capacitor Charging or Discharging
322	Electricity: Single Generator Systems
323	Electricity: Power Supply or Regulation Systems
324	Electricity: Measuring and Testing
326	Electronic Digital Logic Circuitry
327	Miscellaneous Active Electrical Nonlinear Devices, Circuits, and Systems
329	Demodulators
330	Amplifiers
331	Oscillators
332	Modulators
333	Wave Transmission Lines and Networks
334	Tuners
335	Electricity: Magnetically Operated Switches, Magnets, and Electromagnets
336	Inductor Devices
337	Electricity: Electrothermally or Thermally Actuated Switches
338	Electrical Resistors
340	Communications: Electrical
341	Coded Data Generation or Conversion
342	Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)
343	Communications: Radio Wave Antennas
345	Computer Graphics Processing, Operator Interface Processing, and Selective Visual Display Systems
346	Recorders
347	Incremental Printing of Symbolic Information
348	Television
349	Liquid Crystal Cells, Elements and Systems
351	Optics: Eye Examining, Vision Testing and Correcting
352	Optics: Motion Pictures
353	Optics: Image Projectors
355	Photocopying
356	Optics: Measuring and Testing
358	Facsimile and Static Presentation Processing
359	Optics: Systems and Elements
360	Dynamic Magnetic Information Storage or Retrieval
361	Electricity: Electrical Systems and Devices
362	Illumination
363	Electric Power Conversion Systems
365	Static Information Storage and Retrieval
366	Agitating
367	Communications, Electrical: Acoustic Wave Systems and Devices
368	Horology: Time Measuring Systems or Devices
369	Dynamic Information Storage or Retrieval
370	Multiplex Communications
372	Coherent Light Generators
373	Industrial Electric Heating Furnaces
374	Thermal Measuring and Testing
375	Pulse or Digital Communications
376	Induced Nuclear Reactions: Processes, Systems, and Elements
377	Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems
378	X-Ray or Gamma Ray Systems or Devices

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UTILITY CLASSES

CLASS	TITLE
379	Telephonic Communications
380	Cryptography
381	Electrical Audio Signal Processing Systems and Devices
382	Image Analysis
383	Flexible Bags
384	Bearings
385	Optical Waveguides
386	Television Signal Processing for Dynamic Recording or Reproducing
388	Electricity: Motor Control Systems
392	Electric Resistance Heating Devices
396	Photography
398	Optical Communications
399	Electrophotography
400	Typewriting Machines
401	Coating Implements with Material Supply
402	Binder Device Releasably Engaging Aperture or Notch of Sheet
403	Joints and Connections
404	Road Structure, Process, or Apparatus
405	Hydraulic and Earth Engineering
406	Conveyors: Fluid Current
407	Cutters, for Shaping
408	Cutting by Use of Rotating Axially Moving Tool
409	Gear Cutting, Milling, or Planing
410	Freight Accommodation On Freight Carrier
411	Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener
412	Bookbinding: Process and Apparatus
413	Sheet Metal Container Making
414	Material or Article Handling
415	Rotary Kinetic Fluid Motors or Pumps
416	Fluid Reaction Surfaces (i.e., Impellers)
417	Pumps
418	Rotary Expansible Chamber Devices
419	Powder Metallurgy Processes
420	Alloys or Metallic Compositions
422	Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing
423	Chemistry of Inorganic Compounds
424	Drug, Bio-Affecting and Body Treating Compositions
425	Plastic Article or Earthenware Shaping or Treating: Apparatus
426	Food or Edible Material: Processes, Compositions, and Products
427	Coating Processes
428	Stock Material or Miscellaneous Articles
429	Chemistry: Electrical Current Producing Apparatus, Product, and Process
430	Radiation Imagery Chemistry: Process, Composition, or Product Thereof
431	Combustion
432	Heating
433	Dentistry
434	Education and Demonstration
435	Chemistry: Molecular Biology and Microbiology
436	Chemistry: Analytical and Immunological Testing
438	Semiconductor Device Manufacturing: Process
439	Electrical Connectors

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UTILITY CLASSES

CLASS	TITLE
440	Marine Propulsion
441	Buoys, Rafts, and Aquatic Devices
442	Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)
445	Electric Lamp or Space Discharge Component or Device Manufacturing
446	Amusement Devices: Toys
449	Bee Culture
450	Foundation Garments
451	Abrading
452	Butchering
453	Coin Handling
454	Ventilation
455	Telecommunications
460	Crop Threshing or Separating
462	Books, Strips, and Leaves for Manifolding
463	Amusement Devices: Games
464	Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts
470	Threaded, Headed Fastener, or Washer Making: Process and Apparatus
472	Amusement Devices
473	Games Using Tangible Projectile
474	Endless Belt Power Transmission Systems or Components
475	Planetary Gear Transmission Systems or Components
476	Friction Gear Transmission Systems or Components
477	Interrelated Power Delivery Controls, Including Engine Control
482	Exercise Devices
483	Tool Changing
492	Roll or Roller
493	Manufacturing Container or Tube From Paper; or Other Manufacturing From a Sheet or Web
494	Imperforate Bowl: Centrifugal Separators
501	Compositions: Ceramic
502	Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making
503	Record Receiver Having Plural Interactive Leaves or a Colorless Color Former, Method of Use, or Developer Therefor
504	Plant Protecting and Regulating Compositions
505	Superconductor Technology: Apparatus, Material, Process
507	Earth Boring, Well Treating, and Oil Field Chemistry
508	Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separate Compositions for Moving Solid Surfaces, and Miscellaneous Mineral Oil Compositions
510	Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions
512	Perfume Compositions
514	Drug, Bio-Affecting and Body Treating Compositions
516	Colloid Systems and Wetting Agents; Subcombinations Thereof; Processes Of
518	Chemistry: Fischer-Tropsch Processes; or Purification or Recovery of Products Thereof
520	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
521	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
522	Synthetic Resins or Natural Rubbers -- Part of the Class 520

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UTILITY CLASSES

CLASS	TITLE
	Series
523	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
524	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
525	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
526	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
527	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
528	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series
530	Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof
532	Organic Compounds -- Part of the Class 532-570 Series
534	Organic Compounds -- Part of the Class 532-570 Series
536	Organic Compounds -- Part of the Class 532-570 Series
540	Organic Compounds -- Part of the Class 532-570 Series
544	Organic Compounds -- Part of the Class 532-570 Series
546	Organic Compounds -- Part of the Class 532-570 Series
548	Organic Compounds -- Part of the Class 532-570 Series
549	Organic Compounds -- Part of the Class 532-570 Series
552	Organic Compounds -- Part of the Class 532-570 Series
554	Organic Compounds -- Part of the Class 532-570 Series
556	Organic Compounds -- Part of the Class 532-570 Series
558	Organic Compounds -- Part of the Class 532-570 Series
560	Organic Compounds -- Part of the Class 532-570 Series
562	Organic Compounds -- Part of the Class 532-570 Series
564	Organic Compounds -- Part of the Class 532-570 Series
568	Organic Compounds -- Part of the Class 532-570 Series
570	Organic Compounds -- Part of the Class 532-570 Series
585	Chemistry of Hydrocarbon Compounds
588	Hazardous or Toxic Waste Destruction or Containment
600	Surgery
601	Surgery: Kinesitherapy
602	Surgery: Splint, Brace, or Bandage
604	Surgery
606	Surgery
607	Surgery: Light, Thermal, and Electrical Application
623	Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor
700	Data Processing: Generic Control Systems or Specific Applications
701	Data Processing: Vehicles, Navigation, and Relative Location
702	Data Processing: Measuring, Calibrating, or Testing
703	Data Processing: Structural Design, Modeling, Simulation, and Emulation
704	Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression
705	Data Processing: Financial, Business Practice, Management, or Cost/Price Determination
706	Data Processing: Artificial Intelligence
707	Data Processing: Database and File Management or Data Structures
708	Electrical Computers: Arithmetic Processing and Calculating
709	Electrical Computers and Digital Processing Systems:

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UTILITY CLASSES

CLASS	TITLE
	Multiple Computer or Process Coordinating
710	Electrical Computers and Digital Data Processing Systems: Input/Output
711	Electrical Computers and Digital Processing Systems: Memory
712	Electrical Computers and Digital Processing Systems: Processing Architectures and Instruction Processing (e.g., Processors)
713	Electrical Computers and Digital Processing Systems: Support
714	Error Detection/Correction and Fault Detection/Recovery
715	Data Processing: Presentation Processing of Document
716	Data Processing: Design and Analysis of Circuit or Semiconductor Mask
717	Data Processing: Software Development, Installation, and Management
718	Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control
719	Electrical Computers and Digital Processing Systems: Interprogram Communication or Interprocess Communication (Ipc)
725	Interactive Video Distribution Systems
800	Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes
901	Robots
902	Electronic Funds Transfer
930	Peptide or Protein Sequence
968	Horology
976	Nuclear Technology
984	Musical Instruments
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

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DESIGN AND PLANT CLASSES

CLASS	TITLE
D00	** Design Classification Undetermined **
D01	Edible Products
D02	Apparel and Haberdashery
D03	Travel Goods and Personal Belongings
D04	Brushware
D05	Textile or Paper Yard Goods; Sheet Material
D06	Furnishings
D07	Equipment for Preparing or Serving Food or Drink Not Elsewhere Specified
D08	Tools and Hardware
D09	Packages and Containers for Goods
D10	Measuring, Testing, or Signalling Instruments
D11	Jewelry, Symbolic Insignia, and Ornaments
D12	Transportation
D13	Equipment for Production, Distribution, or Transformation of Energy
D14	Recording, Communication, or Information Retrieval Equipment
D15	Machines Not Elsewhere Specified
D16	Photography and Optical Equipment
D17	Musical Instruments
D18	Printing and Office Machinery
D19	Office Supplies; Artists` and Teachers` Materials
D20	Sales and Advertising Equipment
D21	Games, Toys, and Sports Goods
D22	Arms, Pyrotechnics, Hunting and Fishing Equipment
D23	Environmental Heating and Cooling; Fluid Handling and Sanitary Equipment
D24	Medical and Laboratory Equipment
D25	Building Units and Construction Elements
D26	Lighting
D27	Tobacco and Smokers' Supplies
D28	Cosmetic Products and Toilet Articles
D29	Equipment for Safety, Protection, and Rescue (1)
D30	Animal Husbandry
D32	Washing, Cleaning, or Drying Machine
D34	Material or Article Handling Equipment
D99	Miscellaneous
PLT	Plants