

PATENT COUNTS BY CLASS BY YEAR
INDEPENDENT INVENTOR PATENTS
JANUARY 1977 -- DECEMBER 2004



August 2005
U.S. PATENT AND TRADEMARK OFFICE
OFFICE OF ELECTRONIC INFORMATION PRODUCTS / PTMD
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A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

Patent Counts By Class By Year, Patents By Independent Inventors, 1977 - 2004

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, 2004**.

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 PTMD database.

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)

1977-

CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
001	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	5	5	0	0	5	3	28
002	628	99	120	142	197	147	190	175	255	220	161	176	152	266	296	348	428	372	375	308	205	220	5480
004	714	94	108	108	96	118	150	176	182	148	174	190	152	136	152	212	264	218	201	237	198	177	4205
005	584	73	82	96	166	134	161	191	193	214	165	157	152	208	175	181	190	207	177	166	189	188	4049
007	77	12	10	17	17	13	22	19	25	15	28	21	12	24	17	23	23	26	34	24	14	21	494
008	106	11	9	12	7	12	19	11	9	11	14	18	14	17	14	22	18	17	16	15	14	6	392
012	44	2	7	5	8	4	8	7	4	2	5	5	3	2	3	5	13	1	6	2	6	6	148
014	46	5	10	6	18	8	11	8	11	4	8	12	16	15	10	10	17	6	7	15	11	17	271
015	883	129	158	118	142	154	154	143	166	134	144	193	199	236	181	237	240	251	186	175	176	137	4536
016	233	15	18	18	47	42	85	39	54	37	40	63	55	69	66	91	74	70	64	97	78	67	1422
019	63	6	16	9	6	3	14	15	14	6	5	13	10	6	8	5	10	10	8	14	4	1	246
023	13	1	1	0	0	0	0	0	0	2	0	3	1	0	0	1	1	3	0	1	1	0	28
024	438	81	76	59	91	65	89	111	125	103	79	81	98	95	131	121	116	121	130	126	142	79	2557
026	21	5	1	1	2	4	4	4	4	2	1	1	1	4	5	1	4	2	2	0	0	1	70
027	42	1	2	1	2	7	6	11	9	6	7	7	5	5	12	11	9	5	9	6	15	6	184
028	40	3	4	1	4	2	1	6	6	6	2	9	6	5	4	4	7	4	3	4	1	7	129
029	835	118	135	158	176	149	171	156	169	145	168	127	133	131	144	137	120	152	157	142	157	135	3915
030	637	93	97	130	127	107	146	151	155	118	104	109	98	124	97	136	137	129	116	146	124	127	3208
033	846	130	155	157	167	115	140	185	177	171	113	117	167	121	96	132	112	143	148	134	150	163	3839
034	338	47	49	45	51	40	40	36	46	47	50	52	49	43	56	59	75	78	51	49	41	40	1382
036	407	63	52	71	81	72	75	81	61	47	69	73	64	65	86	126	106	96	83	76	76	81	2011
037	242	30	26	32	31	28	43	37	36	43	38	23	31	47	29	35	43	49	40	49	31	34	997
038	45	9	12	15	13	13	14	13	13	9	8	12	9	13	7	11	14	10	11	9	7	11	278
040	684	83	72	58	90	100	145	112	111	78	95	113	100	92	98	124	136	153	140	148	179	131	3042
042	328	59	51	50	70	55	78	93	112	63	61	70	82	63	84	88	77	49	77	104	108	88	1910
043	829	150	143	183	239	227	330	231	208	215	220	219	163	223	135	139	266	214	142	184	208	171	5039
044	116	13	19	17	15	16	13	14	8	9	13	13	14	12	9	4	15	22	10	10	14	14	390
047	475	47	48	61	50	54	90	82	100	79	82	108	106	100	62	88	103	124	98	102	94	52	2205
048	64	15	8	6	8	3	9	7	3	4	0	4	6	0	2	7	3	4	3	0	2	6	164
049	286	40	43	54	77	38	53	44	50	48	33	51	60	61	41	55	47	50	57	42	35	54	1319
051	47	3	7	5	5	7	11	11	11	14	18	7	8	5	14	4	4	6	4	5	4	3	203
052	1794	306	239	350	376	309	390	352	305	262	309	348	301	385	431	497	467	461	533	435	401	360	9611
053	339	35	59	68	77	52	57	56	76	52	46	45	65	60	51	71	57	54	47	33	37	53	1490
054	60	10	13	14	8	13	13	14	19	18	14	15	12	13	9	20	8	20	17	24	29	18	381
055	142	19	20	19	23	25	28	24	30	31	28	9	15	25	17	35	36	28	33	24	30	29	670
056	429	60	66	42	61	52	63	91	88	77	78	71	88	75	39	65	80	71	48	64	43	48	1799
057	163	21	24	36	33	27	30	28	13	27	39	32	14	8	16	34	17	10	15	10	5	6	608
059	40	8	2	3	5	3	9	8	4	2	4	9	7	6	10	4	9	6	4	5	11	9	168
060	827	89	98	87	105	96	85	64	68	77	88	61	56	61	69	82	86	91	100	92	84	91	2557
062	640	106	112	116	114	112	139	145	130	105	142	141	110	127	122	150	144	156	192	201	170	116	3490
063	90	7	19	16	13	27	21	19	27	35	25	14	30	25	32	21	24	25	19	30	30	24	573
065	127	10	20	11	7	3	14	10	4	13	9	13	4	6	5	11	22	8	7	18	12	8	342
066	111	5	9	13	18	12	13	2	19	4	12	4	3	12	15	10	12	18	20	14	6	11	343
068	77	8	14	3	5	13	6	6	9	10	9	9	12	11	7	15	15	10	8	15	14	2	278
069	24	2	4	2	1	3	3	2	4	0	0	1	0	2	1	0	0	1	1	1	1	2	55
070	511	68	64	76	118	112	139	116	123	102	104	105	122	103	128	174	170	105	92	121	129	96	2878
071	79	16	8	7	6	7	10	9	3	18	6	10	16	14	19	17	11	11	12	19	7	8	313
072	601	57	81	75	73	60	87	73	72	42	60	53	40	57	63	84	83	69	52	46	42	37	1907
073	1298	188	184	202	187	163	240	187	204	167	159	173	203	217	189	209	196	166	167	205	218	180	5302
074	499	59	62	78	80	73	105	81	80	116	94	91	85	109	90	102	112	101	86	58	74	53	2288

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

	1977-																							TOTAL
	CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
	075	165	29	25	15	18	17	16	15	10	12	13	21	25	12	14	17	14	14	27	25	17	8	529
	076	86	11	9	20	11	11	13	6	15	13	5	10	16	10	10	7	3	15	5	3	7	1	287
	079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	081	495	98	123	112	88	124	152	126	134	109	115	129	91	116	79	118	182	215	251	187	139	157	3340
	082	151	15	15	23	25	15	15	10	15	16	12	14	7	9	19	19	15	22	13	30	12	491	
	083	531	75	77	87	88	67	85	92	100	84	76	58	51	58	47	72	93	73	66	45	57	99	2081
	084	742	92	94	75	129	101	112	113	109	91	87	104	124	128	95	130	158	173	152	121	131	123	3184
	086	44	7	9	7	3	6	12	3	9	5	10	3	5	2	4	5	1	6	2	6	3	1	153
	087	10	4	4	5	1	2	4	2	1	2	5	0	0	1	2	1	5	2	0	5	5	5	66
	089	119	16	15	22	22	22	33	43	22	24	28	24	34	18	21	30	28	23	30	33	32	35	674
	091	187	21	13	15	22	27	15	19	18	17	19	18	4	9	9	10	6	9	5	8	6	8	465
	092	91	17	22	10	15	33	20	33	29	16	12	25	22	16	7	18	12	10	13	15	17	9	462
	095	121	18	15	14	19	23	24	23	20	27	19	13	14	16	21	23	28	14	28	27	22	17	546
	096	193	19	28	16	29	27	33	41	25	27	29	19	21	27	19	21	27	22	25	25	17	23	713
	099	434	86	73	69	86	75	73	78	72	88	92	93	126	102	130	148	133	149	150	110	96	89	2552
	100	245	47	34	25	29	25	18	17	40	45	40	37	29	28	34	37	25	21	22	11	27	16	852
	101	267	41	40	38	43	37	44	43	53	49	49	51	69	39	49	67	50	56	53	36	49	52	1275
	102	116	18	17	18	29	31	31	30	33	36	31	28	32	18	15	19	21	11	35	28	27	28	652
	104	137	14	11	22	30	21	17	23	27	20	14	16	24	20	25	22	18	14	20	29	23	21	568
	105	53	10	7	9	11	7	9	10	11	13	13	6	8	13	11	12	3	12	14	12	6	6	256
	106	232	18	13	17	24	16	25	27	31	31	34	59	35	44	33	39	44	32	39	32	39	38	902
	108	276	20	24	30	43	37	63	44	42	51	28	62	62	83	77	77	83	103	68	63	66	72	1474
	109	68	12	11	9	14	9	15	11	5	2	10	5	3	5	11	9	9	8	3	7	5	2	233
	110	167	34	29	29	32	37	28	42	36	35	29	44	29	23	19	30	15	17	21	19	12	15	742
	111	133	15	8	18	19	18	15	26	18	16	12	18	23	28	22	10	22	21	29	19	24	13	527
	112	170	28	26	31	25	18	27	16	34	28	19	20	16	20	18	32	40	29	35	26	11	16	685
	114	696	99	119	112	184	139	172	179	181	148	139	144	138	147	139	141	154	174	148	133	138	108	3732
	116	233	24	19	37	19	26	45	49	62	34	34	49	38	35	28	23	32	41	37	42	32	44	983
	117	39	4	5	6	8	8	2	6	4	2	2	6	7	3	4	9	8	8	7	4	3	3	148
	118	220	21	36	32	39	29	26	25	48	36	33	37	43	32	37	40	47	32	33	34	30	21	931
	119	737	103	119	89	101	128	133	169	200	209	180	186	164	194	186	287	227	216	207	255	248	177	4515
	122	140	33	24	25	26	17	23	20	12	8	9	17	11	11	6	16	15	14	11	10	25	11	484
	123	1270	209	165	132	159	117	173	139	182	159	142	126	131	137	123	159	136	129	195	148	156	132	4419
	124	224	33	35	47	58	44	61	44	54	51	53	60	67	70	91	59	60	56	60	52	67	80	1426
	125	68	6	13	8	10	8	8	14	6	9	9	11	8	10	15	10	12	14	16	12	11	17	295
	126	1755	242	180	141	129	107	110	112	96	60	83	79	75	65	61	73	93	102	90	48	70	65	3836
	127	28	4	1	3	1	1	1	2	2	7	4	5	3	2	1	4	6	1	4	1	0	0	81
	128	474	75	81	85	117	72	162	149	188	151	149	181	191	215	205	245	195	176	170	171	160	159	3771
	131	235	26	26	34	29	22	31	25	24	26	7	15	22	23	22	41	27	29	13	19	17	24	737
	132	308	34	52	66	59	41	61	76	92	68	73	85	72	87	88	169	195	141	104	86	74	57	2088
	134	274	23	34	33	49	70	71	57	83	68	62	65	90	68	56	76	120	98	79	83	74	48	1681
	135	179	28	25	29	31	50	73	60	50	52	60	101	62	77	84	90	76	83	126	78	68	87	1569
	136	125	8	8	10	12	7	9	8	10	6	4	10	13	16	11	14	9	22	14	18	10	14	358
	137	1009	135	169	149	178	163	217	185	190	195	183	181	147	141	143	171	237	251	223	128	127	135	4657
	138	189	32	15	26	28	24	26	14	32	28	20	31	30	28	23	45	63	52	46	34	24	23	833
	139	110	7	9	12	15	4	13	5	14	10	3	5	11	11	7	7	5	8	8	5	1	8	278
	140	65	8	10	6	9	8	3	8	4	4	3	9	8	7	5	9	5	8	6	3	5	2	195
	141	310	35	34	42	57	27	56	44	50	53	54	73	69	72	68	62	76	68	88	81	60	80	1559
	142	9	0	4	5	1	1	1	1	3	4	1	1	1	1	2	1	5	2	0	0	1	0	44
	144	349	60	51	64	53	65	63	59	56	69	46	52	50	40	44	53	59	62	53	59	61	31	1499

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

	1977-																							TOTAL
	CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
	147	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	5
	148	86	22	6	8	9	10	14	15	11	18	15	24	14	9	15	15	15	19	26	22	26	21	420
	149	38	1	4	2	6	2	4	3	3	1	1	2	1	4	3	3	0	2	3	1	2	2	88
	150	50	2	5	7	9	13	14	19	15	14	16	15	10	14	6	13	13	24	21	14	16	10	320
	152	181	15	11	10	17	16	30	17	16	16	25	19	14	13	16	16	17	22	17	13	21	13	535
	156	743	91	111	100	100	93	117	100	89	101	99	111	136	107	109	127	141	129	139	122	112	104	3081
	157	49	3	8	4	4	11	5	7	7	7	5	3	5	4	1	2	3	5	7	2	1	1	144
	159	27	2	4	2	2	4	2	1	0	5	6	3	3	2	0	3	1	1	0	1	0	0	69
	160	251	34	34	23	51	51	76	60	79	74	60	52	70	69	82	83	84	108	92	81	70	73	1657
	162	82	9	14	9	11	12	14	16	14	11	18	14	12	15	12	20	10	13	21	9	9	6	351
	163	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	164	199	30	25	40	35	24	36	33	21	13	29	26	12	31	13	21	13	6	20	31	23	12	693
	165	444	51	66	64	73	60	72	58	46	59	39	67	52	48	27	49	51	39	53	42	36	70	1566
	166	314	78	58	57	88	52	58	64	71	78	71	80	67	58	53	73	56	81	126	70	79	69	1801
	168	26	2	6	5	3	8	7	4	13	13	10	5	2	4	6	6	4	11	8	9	7	5	164
	169	107	10	14	17	19	11	21	16	27	30	22	13	9	25	31	31	42	40	24	26	20	12	567
	171	46	2	1	5	2	3	0	8	4	3	2	6	3	1	1	2	1	4	2	5	0	1	102
	172	447	52	49	53	35	28	56	51	34	39	34	38	50	47	42	65	51	54	49	41	33	32	1380
	173	136	14	16	23	23	15	36	17	23	20	9	14	16	15	15	28	21	28	15	10	21	24	539
	174	170	25	26	38	32	34	31	42	39	37	45	46	49	40	48	83	78	59	84	95	79	72	1252
	175	300	54	51	41	35	40	50	50	52	52	36	44	46	45	29	53	45	42	49	39	37	33	1223
	177	122	14	18	18	28	23	27	20	11	16	20	12	11	2	12	19	13	10	15	13	19	14	457
	178	21	2	4	3	5	3	1	3	3	3	2	1	4	5	3	3	0	3	0	2	0	0	71
	180	499	53	66	75	56	74	65	55	71	60	58	76	59	66	35	60	70	73	70	78	78	56	1853
	181	220	36	33	33	35	30	39	35	33	22	42	30	24	26	32	38	54	53	31	35	42	22	945
	182	429	98	90	118	102	84	90	91	110	106	61	100	74	75	80	111	130	102	67	95	78	99	2390
	184	76	7	10	8	9	8	11	21	15	16	15	14	23	25	11	14	17	14	20	12	7	7	360
	185	14	1	1	0	4	0	2	3	0	1	1	1	0	0	3	0	1	2	1	1	1	0	37
	186	25	1	1	4	2	3	2	1	2	7	3	1	6	5	5	4	0	3	4	2	2	4	87
	187	64	18	10	7	12	9	7	8	17	14	14	21	12	22	16	16	28	17	16	14	11	10	363
	188	193	24	21	31	21	26	52	41	31	29	26	44	46	58	43	41	55	45	52	78	44	31	1032
	190	61	10	10	14	10	16	16	11	10	21	13	17	22	23	19	16	17	16	20	19	22	10	393
	191	36	4	2	2	3	4	2	4	4	6	3	8	4	3	7	4	2	4	13	6	5	3	129
	192	133	21	17	21	25	5	17	19	34	17	11	17	18	30	20	16	27	18	18	15	11	10	520
	193	57	2	3	4	11	4	6	3	8	5	7	3	3	3	2	1	8	8	9	13	1	4	165
	194	93	9	13	12	7	12	9	7	14	12	14	9	18	15	7	7	15	5	8	5	9	7	307
	196	12	0	0	0	1	1	1	1	1	0	1	1	1	1	0	4	1	1	0	1	0	0	28
	198	378	36	58	53	59	68	60	67	68	73	60	81	49	44	45	57	55	70	63	66	56	50	1616
	200	319	40	41	29	31	35	33	38	43	31	30	32	32	32	32	54	38	20	21	39	31	50	1051
	201	29	1	0	4	2	0	3	0	0	5	0	2	2	0	3	2	1	0	0	1	2	0	57
	202	153	10	17	15	11	13	11	19	8	6	10	11	9	8	15	8	7	9	5	8	6	5	364
	203	61	7	12	21	27	12	17	25	14	25	24	9	43	7	12	28	20	8	9	11	3	6	401
	204	330	40	37	39	37	30	57	53	46	58	37	44	58	33	50	36	38	56	67	44	40	29	1259
	205	240	21	19	21	34	22	22	27	26	32	41	41	38	25	19	25	27	30	48	33	17	25	833
	206	915	121	141	153	186	214	273	252	244	208	238	239	231	216	235	343	321	312	243	217	192	174	5668
	208	113	18	7	7	4	4	14	14	7	10	3	11	6	16	6	7	14	8	7	5	7	4	292
	209	327	40	42	36	32	36	44	40	42	36	48	45	35	28	32	36	43	37	36	36	15	27	1093
	210	1174	145	144	167	190	206	264	232	249	300	276	225	249	264	255	258	281	273	310	246	206	209	6123
	211	381	69	62	80	74	81	92	103	134	133	114	126	97	144	134	190	153	156	140	124	120	105	2812
	212	73	8	11	9	12	13	9	7	12	8	10	6	4	5	8	17	16	10	9	8	8	5	268

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	CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
	213	18	1	1	3	2	1	1	0	3	2	0	2	0	2	0	1	0	3	4	2	1	3	50
	215	200	49	63	42	50	76	66	51	50	42	34	33	51	33	35	42	50	41	38	33	23	22	1124
	216	27	5	11	5	5	12	8	5	8	8	9	14	9	4	6	10	7	5	4	11	10	16	199
	217	10	4	0	1	5	3	2	1	0	1	1	2	2	1	0	2	1	2	1	0	0	0	39
	218	12	0	3	3	1	2	2	2	1	1	2	2	0	2	0	0	0	2	3	0	0	2	40
	219	567	77	112	80	94	92	119	132	114	94	89	82	99	93	82	110	126	180	125	127	113	128	2835
	220	525	71	93	95	91	110	154	201	176	160	174	158	154	156	145	182	219	184	187	153	119	106	3613
	221	238	28	36	41	35	25	35	38	44	45	39	48	44	44	34	47	46	47	48	57	58	43	1120
	222	865	132	105	105	123	104	163	151	194	180	171	170	175	168	142	168	246	174	179	170	110	135	4130
	223	133	15	25	30	31	20	15	30	40	32	18	17	21	34	45	39	47	61	54	26	20	34	787
	224	550	108	70	55	60	118	144	158	153	114	142	150	184	178	181	202	195	165	177	149	133	133	3519
	225	62	7	12	9	13	10	17	10	16	24	10	8	10	12	6	12	12	10	8	4	14	7	293
	226	109	11	7	6	11	14	6	4	1	2	5	5	3	4	3	5	6	2	4	4	2	2	216
	227	121	22	23	22	25	22	36	18	18	18	15	14	17	17	24	22	22	26	23	32	27	27	591
	228	130	8	18	30	28	23	32	35	24	25	27	20	29	22	23	13	23	23	26	24	19	21	623
	229	151	17	17	28	32	47	50	52	68	50	49	53	44	35	37	62	63	56	53	45	32	12	1053
	231	2	1	2	0	1	1	1	0	2	0	0	0	0	0	1	0	0	3	0	1	0	0	15
	232	100	9	16	9	18	28	26	29	23	18	12	12	34	16	19	15	19	15	17	11	17	15	478
	234	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	235	220	29	29	34	34	29	43	28	24	26	27	31	50	38	41	40	59	66	43	74	104	96	1165
	236	181	15	31	18	22	16	20	12	11	18	19	19	15	8	10	15	13	22	14	13	13	10	515
	237	135	19	15	14	11	9	10	12	12	7	9	6	5	9	6	11	11	10	16	9	14	5	355
	238	76	11	4	2	6	6	13	10	6	12	3	7	8	12	6	15	6	8	9	12	7	7	246
	239	716	74	76	101	74	98	118	111	114	103	106	125	96	64	104	151	156	182	130	120	141	128	3088
	241	345	31	35	53	52	51	70	69	63	58	87	68	59	70	59	61	82	62	43	57	59	50	1584
	242	540	69	92	52	87	86	82	74	54	61	71	67	49	66	72	94	106	86	90	107	90	52	2147
	244	363	48	32	56	74	75	79	55	83	91	76	62	53	58	39	86	86	99	91	99	93	91	1889
	245	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
	246	24	2	1	2	2	5	2	1	3	3	5	5	11	4	6	11	2	10	12	8	10	5	134
	248	892	133	141	170	217	196	265	294	366	358	252	248	244	250	242	369	325	363	326	343	312	233	6539
	249	256	27	24	19	37	27	29	21	23	19	17	12	14	16	22	24	14	16	18	17	9	16	677
	250	427	65	53	57	73	59	111	95	111	90	79	69	88	80	76	93	84	70	70	71	100	96	2117
	251	267	59	53	40	47	32	46	39	34	47	49	54	39	32	33	39	43	49	35	44	41	39	1161
	252	132	38	18	20	24	15	23	18	21	26	10	19	19	30	23	31	32	37	39	19	21	30	645
	254	385	57	59	38	54	51	65	47	44	47	71	42	35	34	57	49	81	74	66	65	76	63	1560
	256	158	20	25	15	26	20	31	20	25	26	21	29	25	26	37	34	30	33	32	21	42	34	730
	257	49	9	9	8	18	10	18	23	24	31	21	25	36	29	46	44	41	42	55	68	81	64	751
	258	1	0	1	0	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	1	0	0	0	1
	261	286	31	32	27	30	18	26	36	31	31	25	15	23	26	24	23	27	25	44	31	27	24	862
	264	604	78	65	62	51	72	74	102	89	103	111	89	99	90	93	124	104	106	90	104	88	89	2487
	266	169	27	18	24	16	17	18	7	15	9	8	10	20	13	13	13	5	14	10	11	10	14	461
	267	69	9	7	15	26	19	32	16	10	12	14	14	13	17	12	15	17	14	16	20	13	11	391
	269	312	42	46	43	56	50	74	64	40	52	40	33	29	49	26	48	58	63	44	43	46	40	1298
	270	40	7	9	8	4	3	2	9	6	2	5	3	3	3	2	4	2	4	3	1	2	2	124
	271	87	13	16	20	28	13	22	13	19	18	22	10	13	15	7	9	6	8	6	11	7	4	367
	273	1154	153	168	126	142	133	208	218	220	209	189	245	247	214	223	253	224	197	211	223	194	136	5287
	277	183	33	30	23	18	21	23	13	18	20	16	18	17	21	24	21	25	18	33	38	21	20	654
	278	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	2
	279	86	9	19	24	20	11	14	16	19	18	16	16	15	13	10	14	19	13	20	12	15	3	402

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CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
280	1625	209	211	260	268	282	315	268	324	276	323	363	345	342	251	410	402	469	455	427	387	365	8577
281	57	14	17	25	23	18	31	25	26	24	29	19	26	24	30	34	44	25	22	17	7	12	549
283	68	7	15	27	26	11	36	32	37	36	43	43	45	34	30	47	64	48	36	24	21	13	743
285	353	57	50	54	88	49	71	47	61	59	64	70	65	59	41	70	75	49	51	51	49	43	1576
289	37	2	3	7	5	3	4	1	4	2	1	1	1	3	7	2	6	4	9	5	4	5	116
290	251	41	29	22	23	21	16	7	9	10	7	12	23	8	7	22	13	23	29	26	15	60	674
291	4	1	1	1	0	1	0	1	0	1	0	0	0	3	0	0	0	1	0	1	0	1	16
292	377	49	36	59	79	44	65	64	86	77	36	37	45	63	73	43	54	54	27	66	47	30	1511
293	52	4	5	6	14	6	12	14	17	12	11	6	3	5	12	8	7	9	14	9	12	9	247
294	564	88	82	70	91	90	90	79	74	81	101	97	106	117	109	150	130	124	81	119	77	45	2565
295	1	1	1	2	0	0	0	1	2	0	0	0	0	1	1	0	2	0	1	1	2	1	17
296	502	57	57	63	103	83	125	148	136	127	100	85	95	116	113	139	151	165	176	126	134	143	2944
297	494	62	82	101	116	107	147	119	115	118	82	165	120	171	161	183	220	262	159	176	182	179	3521
298	66	5	4	8	11	8	9	5	8	5	8	7	9	5	5	8	7	10	11	7	12	18	236
299	155	26	15	12	25	21	17	18	15	16	16	6	11	8	11	10	12	10	15	8	12	7	446
300	9	0	1	2	3	0	1	2	2	4	5	5	5	1	4	2	2	1	3	1	4	2	59
301	87	16	8	14	19	17	15	28	25	31	24	25	17	26	13	27	29	39	45	42	40	34	621
303	54	3	2	6	7	4	6	12	7	10	13	6	15	7	14	6	11	11	10	18	8	5	235
305	31	5	2	4	1	5	5	3	0	1	3	5	6	4	7	8	7	8	8	7	6	1	127
307	205	23	22	12	42	42	41	17	14	19	30	25	22	46	47	51	57	38	21	22	30	32	858
310	280	40	33	41	47	45	60	33	43	43	48	40	34	42	51	73	79	66	72	70	61	88	1389
312	400	60	31	46	48	49	58	42	45	71	63	54	68	66	57	87	79	82	51	70	60	57	1644
313	78	12	7	11	9	15	21	14	21	14	8	10	11	21	18	23	32	23	19	23	28	20	438
314	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
315	223	33	30	33	42	32	54	66	74	44	50	37	64	45	29	59	47	65	64	58	71	43	1263
318	231	34	36	38	45	43	39	54	39	32	34	39	48	38	34	46	35	44	33	33	21	22	1018
320	68	7	7	18	22	7	12	6	6	21	30	21	10	24	32	31	34	40	41	38	33	31	539
322	45	10	7	3	9	5	3	4	4	3	5	4	1	4	5	5	2	3	6	1	3	2	134
323	61	9	6	8	13	8	16	9	10	15	10	7	7	11	12	13	9	11	16	19	5	8	283
324	429	67	65	48	67	69	117	84	69	96	74	80	99	109	51	97	82	91	97	118	98	95	2202
326	9	3	2	1	2	4	1	7	3	9	4	10	7	7	5	11	7	4	8	10	8	8	130
327	112	9	6	5	5	11	18	11	8	21	13	16	10	16	11	20	23	23	24	22	17	20	421
329	9	3	3	0	0	1	2	0	3	0	1	2	1	2	1	0	0	1	0	1	0	1	31
330	70	17	17	10	14	18	17	8	10	12	7	8	8	12	12	10	15	17	19	13	17	16	347
331	33	8	3	6	11	2	5	4	9	3	3	2	2	6	5	8	8	5	6	2	5	5	141
332	10	3	2	1	0	0	0	2	3	1	0	1	5	3	0	2	1	1	2	0	1	0	38
333	74	7	7	10	13	8	18	8	10	15	11	11	10	10	4	8	10	12	13	13	21	12	305
334	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
335	110	13	11	9	14	11	7	8	11	11	13	12	10	16	14	9	18	14	17	16	16	13	373
336	40	4	5	3	2	1	4	7	1	3	3	6	5	6	8	6	10	9	4	6	15	19	167
337	83	10	17	5	11	2	11	7	7	6	5	4	7	4	14	17	23	17	15	13	20	8	306
338	51	7	3	3	8	11	13	9	12	6	8	6	0	6	3	4	6	8	2	4	4	2	176
340	1002	96	114	112	175	150	255	207	229	180	163	167	223	274	314	373	380	432	380	320	224	310	6080
341	66	3	11	11	20	15	29	23	10	14	22	17	24	23	32	33	25	28	34	43	34	24	541
342	126	16	17	16	31	14	20	21	19	21	28	28	27	36	24	40	34	34	39	37	27	26	681
343	171	17	14	22	26	27	31	30	31	9	25	19	27	31	24	29	37	43	52	50	25	26	766
345	80	11	6	10	15	35	32	25	27	27	21	46	47	47	76	85	107	112	122	113	107	81	1232
346	44	4	6	4	7	6	5	4	3	0	0	1	2	2	0	1	3	0	1	0	0	0	93
347	32	5	4	5	8	11	7	8	7	6	1	6	6	4	9	17	10	19	16	22	20	20	243
348	213	15	35	35	51	24	41	60	62	46	38	50	59	57	54	68	63	70	54	49	44	54	1242

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	1977-																						TOTAL	
	CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		2004
	349	15	0	5	3	8	7	10	7	4	12	6	4	17	19	11	9	7	7	12	9	12	11	195
	351	210	27	33	30	46	56	99	78	66	66	59	58	81	70	70	83	114	104	88	86	93	95	1712
	352	84	12	15	11	18	1	4	8	16	10	6	1	3	6	10	7	14	5	8	4	6	8	257
	353	108	12	10	12	6	11	8	13	10	10	15	13	16	13	12	13	16	11	11	9	9	22	360
	355	201	24	38	28	22	22	21	12	20	18	14	14	13	3	11	8	11	6	11	7	7	6	517
	356	315	37	45	31	49	36	63	55	62	57	48	38	67	61	61	70	76	75	32	60	58	73	1469
	358	42	6	8	10	10	10	9	8	14	17	14	22	19	28	14	15	27	16	13	19	13	17	351
	359	515	68	70	103	82	97	116	135	105	128	105	93	89	96	79	136	138	129	154	159	122	113	2832
	360	166	18	16	30	43	21	29	29	20	22	25	25	23	23	15	27	18	20	18	20	16	15	639
	361	303	37	40	45	50	61	80	59	45	66	72	48	71	90	87	118	85	98	115	120	109	115	1914
	362	587	92	113	108	104	156	179	183	207	219	141	176	207	219	221	271	259	351	343	327	367	304	5134
	363	85	16	15	12	18	17	26	21	19	16	25	16	14	23	22	25	22	28	32	32	19	13	516
	365	49	6	4	4	4	6	9	9	11	10	20	24	17	26	27	32	24	30	27	19	25	17	400
	366	355	63	48	47	35	50	53	57	43	32	33	47	55	66	44	57	65	46	65	45	39	28	1373
	367	112	8	19	15	29	18	23	41	23	41	36	23	26	19	16	19	16	17	23	15	11	15	565
	368	194	41	34	29	35	40	32	38	47	43	45	51	27	25	39	43	43	30	50	47	36	45	1014
	369	157	11	18	11	9	17	15	10	14	11	16	16	31	19	21	21	17	22	18	22	27	15	518
	370	59	9	10	14	13	10	17	10	9	13	12	9	34	28	28	33	28	35	35	25	23	39	493
	372	58	19	8	10	9	21	25	36	24	13	14	21	26	18	22	19	14	16	16	14	26	39	468
	373	57	9	3	3	4	5	3	4	3	5	5	3	5	3	0	0	7	12	6	6	3	3	149
	374	131	17	28	17	13	13	21	14	22	13	15	15	8	10	18	29	11	22	14	15	13	14	473
	375	45	3	7	18	14	9	20	13	19	19	15	16	23	30	29	33	39	33	21	27	29	30	492
	376	106	12	5	11	9	9	8	13	9	18	14	10	12	9	4	12	8	2	4	4	5	6	290
	377	89	8	10	4	9	5	13	5	5	9	5	3	5	6	1	1	4	6	3	6	2	3	202
	378	137	15	18	31	21	26	27	31	42	35	31	28	24	33	22	36	18	32	28	26	26	17	704
	379	271	46	37	56	47	66	87	57	75	64	34	50	75	76	80	102	72	62	72	57	73	72	1631
	380	32	2	3	9	8	11	4	17	20	11	15	23	12	15	22	22	8	18	15	11	3	8	289
	381	283	48	33	37	39	33	60	50	33	47	43	47	40	57	63	115	63	60	43	68	68	68	1398
	382	37	8	12	14	11	9	16	16	22	24	25	18	26	35	39	51	57	66	51	42	59	59	697
	383	94	9	13	16	20	27	32	30	40	29	28	37	27	21	21	23	45	51	44	25	15	13	660
	384	179	26	41	32	28	17	24	31	26	31	21	34	37	25	16	25	23	20	32	25	18	11	722
	385	37	7	7	14	32	43	33	43	48	26	30	31	31	39	32	67	62	59	57	79	76	66	919
	386	29	6	8	6	6	9	17	12	13	7	7	3	4	6	11	7	10	11	10	13	5	10	210
	388	15	6	3	1	3	2	0	2	3	1	1	7	2	4	1	0	4	1	1	0	0	1	58
	392	119	16	20	20	20	22	19	21	14	22	20	21	21	13	16	27	32	31	31	23	18	12	558
	396	330	32	44	29	35	46	33	43	44	26	20	29	15	34	27	61	42	24	21	29	39	34	1037
	398	30	4	9	6	13	6	8	7	7	4	5	9	7	9	7	9	9	6	7	10	10	9	191
	399	32	3	4	2	3	2	6	6	6	10	11	10	13	6	12	9	9	7	20	8	10	4	193
	400	94	33	25	19	19	17	22	22	27	19	31	23	31	22	15	20	19	20	11	14	20	25	548
	401	197	22	28	32	31	39	41	56	78	45	37	59	46	33	23	36	110	98	124	90	77	89	1391
	402	46	8	10	18	14	12	20	18	20	19	15	15	11	18	17	23	13	22	10	15	14	9	367
	403	378	51	54	73	63	45	49	70	60	63	55	46	49	52	57	60	64	44	75	63	58	43	1572
	404	236	27	29	45	65	43	72	72	80	52	72	59	61	51	51	46	57	63	48	66	56	71	1422
	405	593	91	66	78	127	86	134	120	166	150	148	88	91	145	99	135	151	101	107	149	129	118	3072
	406	93	10	10	5	9	8	15	12	19	13	10	4	5	8	6	6	7	8	14	12	11	6	291
	407	51	9	7	11	9	2	4	5	12	7	9	3	2	2	8	8	9	9	12	3	8	1	191
	408	263	27	31	44	31	37	34	51	57	43	32	45	44	25	35	56	47	22	40	27	31	19	1041
	409	112	8	21	38	25	23	27	31	20	18	18	14	17	19	27	29	25	31	18	21	20	16	578
	410	113	9	8	9	11	23	20	23	22	16	16	20	30	23	16	28	35	47	46	37	47	48	647
	411	209	31	23	27	43	47	50	60	39	53	54	42	49	52	52	63	59	55	46	42	34	35	1165

PATENTS GRANTED BY CLASS BY YEAR (ORs only)

	1977-																							TOTAL
	CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
	412	14	3	4	0	3	1	2	7	3	4	6	3	4	4	6	7	4	7	10	9	1	1	103
	413	12	0	0	1	1	0	0	0	1	2	1	2	0	2	1	2	0	1	1	0	0	2	29
	414	981	105	116	117	131	131	114	128	153	133	125	138	142	142	112	131	144	167	85	113	92	101	3601
	415	184	21	30	13	25	32	22	15	22	32	24	22	22	29	13	13	13	23	30	37	39	31	692
	416	209	26	29	22	29	26	29	22	9	22	40	30	36	31	24	17	29	43	36	42	29	35	815
	417	473	75	90	82	58	83	82	66	75	64	76	58	69	69	68	71	74	113	102	103	100	62	2113
	418	170	28	25	15	23	23	19	24	20	23	18	25	22	20	17	17	12	31	27	24	22	14	619
	419	28	2	5	7	4	2	1	9	6	2	1	7	4	7	7	4	5	4	2	4	4	5	120
	420	86	7	2	2	4	5	6	7	7	6	4	8	6	1	3	2	4	0	1	7	6	3	177
	422	329	34	33	39	44	46	54	60	69	94	81	83	108	77	72	89	93	90	93	95	86	62	1831
	423	304	33	28	27	36	32	27	40	33	28	26	30	28	24	17	27	29	24	41	35	36	24	929
	424	424	78	68	74	87	104	151	127	132	151	152	128	142	186	250	295	338	292	361	351	321	200	4412
	425	610	66	79	62	89	99	100	93	84	75	81	83	69	67	57	76	63	65	49	56	47	48	2118
	426	498	55	74	58	70	90	117	115	104	99	94	88	98	111	107	105	154	159	165	121	98	94	2674
	427	326	41	59	38	62	54	49	38	52	62	38	64	74	58	64	80	73	75	77	58	66	50	1558
	428	730	111	172	149	131	146	170	187	158	165	173	181	209	207	214	260	269	244	222	167	211	171	4647
	429	159	24	21	10	13	18	22	19	18	17	20	22	35	71	30	29	32	27	28	25	40	16	696
	430	155	21	22	19	19	19	10	23	23	14	12	16	23	28	13	23	22	27	25	33	27	25	599
	431	228	36	35	34	37	28	41	37	31	33	30	41	38	42	25	51	59	61	69	38	62	52	1108
	432	157	32	20	26	22	20	18	16	16	12	9	7	3	2	10	11	15	12	9	11	17	5	450
	433	627	122	123	109	112	126	139	118	184	173	143	157	107	145	133	222	203	154	191	134	113	82	3617
	434	514	80	72	55	93	84	107	81	82	100	130	107	86	107	97	147	136	143	89	101	123	94	2628
	435	309	44	24	43	69	61	64	72	66	71	89	99	114	130	184	228	256	210	247	178	181	139	2878
	436	148	24	17	22	23	27	32	16	23	24	33	31	29	42	39	53	40	43	44	30	43	30	813
	438	54	6	15	7	16	12	9	10	16	19	20	16	33	24	20	36	52	56	68	65	83	72	709
	439	389	47	70	77	106	126	116	130	116	141	117	137	120	133	130	175	150	210	194	159	139	177	3159
	440	165	24	35	33	56	36	48	49	57	39	53	44	45	48	51	55	50	56	44	40	50	46	1124
	441	127	19	35	43	49	45	54	61	45	51	41	65	59	51	56	66	50	55	54	59	55	45	1185
	442	59	11	19	10	11	10	15	7	5	11	8	13	16	10	9	22	29	20	15	10	8	9	327
	445	9	1	0	1	1	1	1	2	1	2	2	3	2	1	5	2	9	5	4	3	4	3	62
	446	624	51	73	69	85	77	106	131	126	123	107	122	103	109	79	140	135	181	157	176	172	141	3087
	449	51	10	9	4	5	7	1	0	6	3	0	3	2	1	5	2	1	2	1	3	5	3	124
	450	64	4	5	9	7	6	8	7	6	8	9	4	11	6	14	20	33	49	37	32	14	18	371
	451	384	50	63	66	87	78	85	88	84	81	96	69	73	81	88	80	92	101	121	93	81	96	2137
	452	206	24	37	50	41	29	22	38	28	40	36	40	31	33	21	17	22	32	31	11	19	15	823
	453	23	4	6	5	2	4	4	3	9	4	3	4	5	2	4	0	1	4	1	3	2	8	101
	454	188	26	46	29	42	38	39	50	38	54	34	42	24	36	34	44	45	41	59	58	47	46	1060
	455	160	12	13	14	15	24	39	15	34	30	25	15	33	54	34	55	59	72	61	66	75	94	999
	460	33	5	7	4	2	3	5	11	8	8	5	4	8	12	1	9	5	8	5	5	2	4	154
	462	20	0	4	3	4	2	4	3	1	8	10	3	5	3	1	1	0	2	4	0	0	0	78
	463	100	13	21	9	23	16	27	17	29	24	28	40	25	36	28	65	52	63	63	52	58	43	832
	464	88	12	4	5	7	12	8	10	3	8	8	10	11	10	7	10	4	9	23	10	13	9	281
	470	41	3	1	2	3	3	1	1	1	3	6	3	4	2	2	4	4	2	0	3	3	1	93
	472	105	15	13	12	12	9	28	33	21	18	29	21	22	24	26	47	31	25	21	23	28	19	582
	473	1046	134	174	142	162	180	262	307	321	327	301	386	423	395	363	471	382	324	316	308	310	290	7324
	474	108	13	24	16	35	19	35	30	27	13	24	33	34	23	25	17	14	28	13	19	10	6	566
	475	98	10	16	18	27	35	39	25	36	33	26	20	22	25	19	24	35	35	21	22	25	16	627
	476	18	3	2	3	3	0	4	0	3	3	2	0	4	7	1	2	2	5	2	2	1	2	69
	477	36	12	8	5	3	3	6	8	7	2	1	4	6	8	6	5	5	4	1	4	6	3	143
	482	581	103	119	171	167	177	208	226	220	227	218	249	221	275	281	324	308	304	274	252	262	263	5430

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CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
483	6	2	4	2	4	2	0	2	4	2	0	3	1	1	3	1	6	6	1	4	2	1	57
492	29	2	1	3	3	2	4	4	1	1	5	2	8	3	6	5	5	3	1	1	2	3	94
493	150	14	25	23	23	10	16	16	24	41	19	23	17	16	11	30	21	24	11	16	25	15	570
494	49	3	4	2	5	6	7	3	6	2	7	8	3	4	5	8	7	6	7	8	2	3	155
501	45	9	5	1	5	9	11	11	9	12	6	13	11	13	7	10	11	5	12	12	14	5	236
502	73	8	12	10	10	5	9	12	17	17	21	9	10	8	8	12	16	18	11	14	4	4	308
503	11	0	1	2	0	2	3	4	3	1	2	4	0	4	2	4	4	0	2	1	0	3	53
504	31	4	6	5	3	2	6	9	8	18	8	5	5	8	11	10	28	14	16	11	9	5	222
505	2	0	0	0	0	0	1	4	5	10	8	6	9	7	8	3	8	6	5	2	3	4	91
507	10	4	8	4	4	3	5	3	2	5	3	0	1	1	3	7	5	3	1	5	6	11	94
508	28	5	6	2	8	3	7	6	6	7	7	5	9	8	8	11	13	10	10	7	8	4	178
510	61	7	12	8	13	14	13	13	15	10	11	12	19	22	23	34	41	23	29	30	30	26	466
512	2	0	0	1	1	2	0	2	0	2	0	3	0	0	1	1	1	3	1	1	1	1	23
514	504	91	85	84	92	90	156	151	173	126	121	117	148	185	208	248	268	243	277	243	201	151	3962
516	14	3	2	1	3	0	1	2	1	4	2	2	2	3	4	2	5	4	5	3	7	2	72
518	1	0	0	3	1	0	1	0	0	1	0	2	2	1	0	1	0	1	4	1	0	2	21
521	114	17	18	11	7	16	12	8	14	20	17	8	16	8	13	17	18	9	15	11	16	5	390
522	9	0	2	1	2	1	1	1	1	3	2	1	6	5	1	2	5	4	2	1	6	3	59
523	95	15	8	10	8	13	9	16	12	11	13	11	16	13	11	20	15	13	14	12	12	6	353
524	167	15	17	14	14	10	20	16	24	33	22	28	26	32	24	40	29	25	22	27	30	18	653
525	109	13	10	3	14	6	9	24	20	19	19	12	13	10	12	15	11	10	14	13	11	9	376
526	48	7	9	3	4	9	3	5	9	5	10	9	1	7	4	9	9	8	14	8	23	8	212
527	16	0	0	1	0	1	3	2	1	1	2	1	3	0	1	1	0	2	0	0	1	1	37
528	103	7	7	7	5	7	11	11	15	14	23	13	11	6	11	15	12	9	14	15	7	7	330
530	102	14	9	11	11	7	14	6	13	20	13	17	13	14	36	45	38	18	40	30	34	31	536
534	9	0	0	4	3	1	4	4	3	1	1	1	1	1	2	2	1	0	0	1	1	0	40
536	53	6	7	7	2	4	7	12	7	11	11	5	15	24	18	34	31	19	31	20	26	17	367
540	31	1	0	4	6	3	2	3	4	2	3	1	3	1	8	2	6	0	3	3	2	3	91
544	39	4	6	4	2	4	2	4	4	3	6	6	4	3	2	2	4	3	1	3	3	5	114
546	36	3	6	1	3	1	1	4	1	2	7	7	3	8	8	6	6	7	5	3	10	4	132
548	29	4	5	7	3	3	5	6	5	7	4	4	5	6	2	4	7	2	2	3	3	3	119
549	47	4	3	2	2	3	3	3	6	2	9	3	1	1	7	6	7	5	10	9	4	2	139
552	17	4	0	0	1	0	2	0	5	1	0	0	1	0	0	1	2	0	1	1	1	2	39
554	27	4	1	3	1	0	2	4	3	3	2	7	4	3	3	4	3	4	6	9	8	4	105
556	27	2	2	4	4	3	1	3	6	4	5	2	6	6	6	3	8	3	4	2	9	2	112
558	26	6	1	2	0	2	4	5	2	2	3	1	2	5	1	4	4	3	1	2	0	1	77
560	38	2	3	1	4	3	4	8	7	4	3	5	6	5	6	4	4	1	7	7	4	3	129
562	33	4	3	3	3	3	5	4	4	3	9	5	3	4	8	5	4	5	6	6	8	2	130
564	28	3	1	4	3	1	5	4	4	6	2	2	10	3	4	3	2	5	10	7	3	2	112
568	55	2	5	5	4	4	5	1	11	9	5	5	4	6	3	10	13	6	6	4	7	6	176
570	14	1	0	0	0	0	2	1	0	5	0	0	0	1	4	2	3	1	5	0	0	0	39
585	41	5	6	4	3	1	10	8	9	6	7	1	6	10	8	17	12	8	11	4	8	4	189
588	36	10	10	8	8	9	9	7	2	6	10	15	17	16	22	18	15	11	5	6	3	2	245
600	733	106	124	145	180	115	196	201	218	196	228	246	268	216	201	374	301	327	266	327	264	179	5411
601	216	25	33	40	39	55	51	48	62	67	41	36	60	51	40	73	43	49	69	50	49	45	1242
602	263	47	59	65	65	60	65	72	80	62	56	62	76	58	71	121	102	109	80	70	95	63	1801
604	757	108	132	183	224	211	290	290	295	326	350	400	335	295	286	359	271	260	242	244	302	196	6356
606	452	102	111	169	161	149	169	159	213	230	253	289	276	312	396	438	437	396	329	278	322	191	5832
607	174	21	41	53	40	43	49	55	59	54	47	47	58	60	43	74	74	84	84	75	75	59	1369
623	277	42	46	75	80	82	93	93	73	105	82	89	78	123	93	116	114	134	156	147	144	132	2374

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1977-

CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
700	68	12	18	18	22	29	29	22	31	31	26	36	29	51	35	52	45	45	55	60	84	73	871
701	40	7	8	5	6	5	19	11	11	15	15	18	28	21	20	31	31	37	65	67	54	47	561
702	73	8	16	14	10	21	23	24	25	18	24	29	15	38	37	42	44	39	43	68	83	90	784
703	3	0	1	1	1	4	4	2	4	5	4	4	4	6	15	15	14	9	12	19	11	9	147
704	25	6	2	6	11	4	9	12	14	13	9	14	12	12	15	35	35	18	37	28	19	23	359
705	27	7	6	6	13	10	16	18	17	23	33	34	14	31	46	81	144	117	69	75	77	60	924
706	0	0	0	1	1	3	3	6	8	5	7	7	14	15	11	36	16	21	19	22	28	20	243
707	9	2	0	2	1	0	3	3	3	2	9	14	17	14	23	53	61	44	52	59	81	91	543
708	83	17	13	7	8	10	21	13	11	13	22	16	10	18	14	17	15	13	9	14	10	12	366
709	5	2	1	0	0	0	0	3	0	2	5	1	7	14	9	40	34	46	45	51	43	62	370
710	14	7	3	2	5	5	3	7	8	4	7	6	8	11	15	21	18	23	16	12	23	16	234
711	16	4	2	4	3	5	6	5	7	5	6	7	10	13	15	15	11	12	11	10	15	13	195
712	9	4	2	4	4	2	9	9	1	5	7	3	7	11	12	19	9	4	9	6	5	2	143
713	6	4	5	5	5	4	11	11	11	11	9	16	12	17	21	34	29	37	39	29	28	27	371
714	32	4	4	3	12	5	10	5	11	9	4	14	15	14	16	20	13	10	19	11	23	24	278
715	6	3	6	2	3	6	11	10	6	12	14	13	13	14	25	35	38	24	38	21	29	29	358
716	1	0	0	1	1	1	2	0	0	1	0	2	2	3	6	8	4	2	14	19	23	19	109
717	2	1	3	0	0	0	1	1	1	2	0	3	6	7	4	7	15	12	13	11	7	9	105
718	1	0	0	0	0	0	0	1	1	0	1	2	5	1	2	6	3	5	2	0	0	1	31
719	0	0	0	0	0	1	0	0	0	0	1	0	2	1	1	4	0	2	2	4	6	3	27
720	1	2	0	1	1	1	1	1	2	1	0	0	3	3	1	5	4	5	2	6	7	7	54
725	24	3	4	6	3	3	4	7	10	6	3	10	7	18	9	16	23	11	19	12	11	11	220
800	2	0	1	3	2	2	1	1	2	0	2	3	5	2	8	27	24	13	14	18	14	16	160
D00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2
D01	33	1	3	4	7	4	3	17	17	8	12	12	8	17	19	20	24	25	29	14	6	26	309
D02	373	54	72	62	71	67	85	92	107	70	149	156	165	175	167	275	232	184	144	192	169	149	3210
D03	508	66	84	65	70	74	63	147	171	159	211	210	195	202	198	259	278	250	221	207	210	184	4032
D04	61	18	21	29	34	30	22	32	34	35	57	39	62	62	43	62	46	76	72	88	52	31	1006
D05	30	2	2	0	2	4	5	4	2	5	4	2	6	3	9	9	6	14	18	5	16	9	157
D06	1719	250	291	287	284	252	220	314	389	404	561	450	600	542	485	625	587	654	593	628	528	414	11077
D07	702	94	83	149	143	124	154	158	155	170	252	239	231	311	201	281	242	318	295	225	288	262	5077
D08	823	188	137	139	166	189	193	256	301	295	380	352	398	355	303	453	392	474	362	310	420	375	7261
D09	388	65	53	60	77	62	50	104	146	100	131	130	131	144	142	134	131	165	174	137	170	114	2808
D10	570	71	81	63	99	76	72	110	187	147	241	245	240	172	160	242	237	203	180	178	145	157	3876
D11	742	67	90	76	60	60	82	88	132	111	147	164	171	153	161	186	176	202	213	210	166	164	3621
D12	685	89	88	82	133	110	136	221	210	241	253	251	234	298	245	337	253	332	247	223	254	285	5207
D13	124	23	20	26	18	23	18	27	48	41	52	55	64	47	60	68	96	100	92	99	100	55	1256
D14	329	53	50	50	60	54	59	86	105	86	137	113	144	149	147	175	163	217	167	167	173	157	2841
D15	312	69	43	45	41	39	46	64	46	103	100	61	116	77	65	87	55	68	59	57	77	79	1709
D16	124	26	17	24	24	19	14	55	34	49	43	52	42	74	58	75	70	94	48	58	86	47	1133
D17	129	17	37	15	17	18	12	33	29	27	28	27	24	19	19	33	35	22	35	20	32	21	649
D18	92	18	15	20	17	8	8	16	24	15	20	14	11	18	12	16	17	25	16	25	20	12	439
D19	329	42	49	60	52	43	55	62	112	92	116	118	137	95	110	143	120	132	123	91	103	109	2293
D20	124	18	30	23	18	22	17	43	47	34	57	55	56	40	75	85	62	64	54	21	70	55	1070
D21	1404	175	197	183	230	211	269	299	424	392	386	436	425	378	383	555	405	455	434	340	299	274	8554
D22	353	46	30	44	49	46	75	54	49	66	89	96	103	113	81	86	111	92	86	100	93	72	1934
D23	658	87	61	83	87	74	74	112	205	158	146	201	203	154	158	213	211	261	197	197	204	191	3935
D24	501	95	67	102	99	84	90	102	130	160	184	187	187	185	178	213	193	200	233	190	163	109	3652
D25	422	82	26	70	32	41	54	44	50	52	78	104	83	93	108	115	128	137	115	139	126	124	2223
D26	269	42	46	43	55	58	62	62	99	88	84	128	136	174	146	209	162	253	311	260	249	199	3135

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CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
D27	146	11	6	13	8	8	4	9	13	4	7	14	18	19	17	44	49	34	35	34	36	35	564
D28	212	46	44	63	28	49	64	126	53	35	65	86	76	74	91	89	84	158	133	95	102	98	1871
D29	79	11	18	18	14	25	18	38	23	33	46	48	62	59	45	42	47	55	31	51	40	40	843
D30	271	24	34	18	43	54	32	41	68	62	88	83	77	82	92	69	73	119	60	60	62	61	1573
D32	150	19	23	26	51	27	28	61	55	39	54	82	89	70	85	86	67	64	49	56	68	40	1289
D34	167	29	28	38	34	49	51	54	81	110	114	94	98	65	57	101	70	78	68	68	83	58	1595
D99	81	11	13	12	18	3	14	16	16	24	34	28	42	29	37	39	34	38	52	30	62	44	677
PLT	422	58	77	73	66	132	188	98	119	75	101	97	78	83	91	124	101	91	125	261	232	156	2848
TOTAL	103136		14903		17587		20469		21886		21043		22220		21949		27824		26857		24578		558224
		14351		15448		16543		20466		20839		21804		22853		28127		28133		25399		21809	

PART II

PATENT COUNTS BY CLASS BY YEAR

ORIGINAL AND CROSS REFERENCE CLASSIFICATIONS

(DUPLICATES ELIMINATED)

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																						TOTAL
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
001	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	5	5	0	0	5	3	28
002	898	136	170	196	257	208	275	263	356	308	254	268	272	363	400	472	549	472	456	390	278	298	7539
004	1055	126	151	153	150	174	225	229	259	218	247	271	217	204	225	271	347	277	273	299	253	222	5846
005	952	118	150	162	236	207	245	287	285	286	244	243	242	281	260	294	291	292	251	218	229	238	6011
007	137	30	36	36	35	36	48	46	51	39	62	56	38	51	41	53	51	63	67	45	38	48	1107
008	200	21	13	19	20	18	27	23	16	18	26	26	24	28	21	28	35	31	27	18	25	13	677
012	79	7	13	10	15	11	9	10	7	4	8	8	6	4	6	9	18	8	10	4	9	8	263
014	87	9	17	15	25	15	19	15	25	18	13	16	26	27	19	15	24	21	11	24	22	28	491
015	1411	191	243	195	261	259	293	272	319	255	252	298	290	317	267	362	404	413	328	290	283	217	7420
016	527	79	78	83	126	87	163	94	113	91	97	126	113	159	136	180	151	141	141	180	148	131	3144
019	85	9	22	13	12	4	18	19	15	9	8	17	17	8	12	9	16	13	16	18	5	2	347
023	41	2	2	3	4	4	4	3	2	5	0	6	3	1	1	4	1	4	2	3	2	1	98
024	1053	161	164	173	228	183	218	257	245	219	185	201	201	224	240	244	240	239	242	217	240	163	5537
026	40	12	3	3	6	5	12	5	7	2	4	3	5	7	7	4	6	5	4	4	0	1	145
027	57	1	4	3	3	7	9	12	11	7	8	11	11	5	16	16	13	9	15	11	18	7	254
028	114	9	11	8	8	8	11	15	7	14	13	10	14	13	13	11	15	15	8	7	5	13	342
029	1661	250	269	300	327	261	317	296	307	254	284	247	239	224	252	231	224	255	259	258	238	222	7175
030	971	151	171	182	188	178	219	217	253	190	180	192	184	209	167	218	232	220	197	201	190	177	5087
033	1227	199	208	228	230	178	213	253	255	238	185	184	230	192	151	206	169	205	205	189	206	216	5567
034	524	69	85	80	83	72	66	67	70	76	89	79	77	69	71	79	103	107	71	67	51	52	2107
036	493	78	62	89	109	92	110	111	80	77	90	92	100	96	113	173	149	128	117	105	107	107	2678
037	401	45	48	59	50	50	72	63	64	67	64	41	50	62	53	64	80	78	63	75	53	51	1653
038	78	13	19	20	21	18	21	16	23	15	14	17	12	19	15	14	23	20	19	12	9	19	437
040	1200	147	149	146	175	176	277	223	263	220	231	259	246	232	232	259	295	310	305	289	288	250	6172
042	430	68	71	70	83	69	99	105	128	74	79	102	108	90	100	108	99	69	103	126	140	114	2435
043	1003	173	170	201	264	249	368	264	235	257	242	262	188	251	164	166	304	251	187	216	238	202	5855
044	173	21	26	22	21	22	25	17	15	17	18	19	16	16	11	13	19	29	23	19	19	18	579
047	733	68	73	95	82	91	126	123	141	122	124	143	143	135	103	150	137	168	139	136	126	73	3231
048	208	41	21	13	20	10	21	10	9	11	4	10	14	6	5	8	11	12	8	3	8	10	463
049	597	90	83	97	131	91	131	99	97	96	70	92	108	127	104	104	120	127	111	99	85	94	2753
051	77	8	10	6	9	11	13	13	14	22	18	15	14	10	22	7	7	11	6	9	7	8	317
052	2871	441	373	507	543	441	581	542	493	426	453	495	481	580	591	701	645	634	688	610	564	506	14166
053	532	55	97	108	122	86	96	87	105	78	79	70	91	93	83	97	94	81	77	66	68	77	2342
054	85	14	19	15	15	18	15	14	23	28	19	22	20	15	11	26	14	30	25	33	38	25	524
055	518	64	68	52	67	81	94	94	88	105	91	49	71	72	55	90	93	80	85	71	67	76	2131
056	627	77	84	68	94	75	84	122	117	105	95	94	118	96	54	84	100	95	70	77	64	60	2460
057	195	32	27	44	37	35	38	32	17	34	41	39	16	13	25	36	25	14	22	12	7	11	752
059	82	12	10	10	11	8	12	12	8	5	6	13	13	8	14	5	11	8	8	8	14	10	288
060	1331	152	141	119	149	138	130	101	108	114	121	101	95	89	93	130	118	116	132	123	108	120	3829
062	920	146	160	158	156	151	188	196	165	163	189	188	165	174	154	202	196	212	241	240	208	164	4736
063	145	17	26	22	20	45	31	31	37	48	39	25	49	39	47	39	38	41	33	42	47	33	894
065	181	23	26	19	18	7	22	19	12	19	20	17	15	8	11	15	25	13	17	26	19	16	548
066	144	7	12	17	25	16	19	6	27	15	16	10	14	16	16	21	17	25	23	16	8	12	482
068	165	23	26	16	12	32	27	20	13	22	20	20	29	25	14	26	24	25	21	27	22	10	619
069	32	5	6	4	4	3	4	2	6	1	0	1	1	2	1	2	0	1	2	2	2	2	83
070	745	102	108	117	176	162	190	168	177	149	155	153	167	161	165	220	224	170	128	178	163	141	4119
071	143	19	18	14	15	10	21	13	10	25	14	17	20	18	25	23	24	17	25	32	23	16	542
072	763	89	112	114	112	85	122	103	97	69	78	73	63	80	91	107	101	96	79	60	64	62	2620
073	1954	280	281	305	323	275	410	318	364	286	288	292	305	337	270	335	310	275	287	304	316	270	8385
074	1256	179	203	221	251	207	260	209	227	230	200	197	186	213	185	203	226	197	172	152	138	113	5425

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

	CLASS	1977-																				TOTAL		
		1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003	2004
	075	246	38	29	26	33	24	29	25	24	25	22	32	32	20	20	29	23	19	37	34	23	17	807
	076	145	22	29	36	22	27	28	24	22	28	21	14	22	17	27	15	16	26	13	12	10	7	583
	079	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3	
	081	734	141	161	167	148	177	201	188	204	160	183	179	143	186	149	190	256	300	317	252	191	213	4840
	082	216	23	25	39	35	23	18	21	29	30	19	22	10	22	30	35	26	19	28	21	38	20	749
	083	974	134	149	169	160	145	171	167	176	172	141	123	102	115	102	136	147	138	118	83	120	134	3876
	084	845	101	117	88	161	120	134	128	136	112	111	128	145	162	118	167	189	196	184	148	150	132	3772
	086	65	8	11	10	3	8	15	3	13	7	13	7	6	2	4	8	3	6	4	8	7	3	214
	087	20	5	6	8	3	4	6	3	4	3	7	5	0	5	7	5	9	3	3	6	5	5	122
	089	193	24	29	36	36	36	42	70	35	44	50	43	51	35	47	48	48	37	55	54	59	57	1129
	091	460	56	47	44	63	56	45	37	39	42	42	40	19	21	26	25	18	20	20	15	19	17	1171
	092	395	55	68	47	61	75	71	65	70	46	49	59	46	38	25	40	36	38	40	38	32	18	1412
	095	195	29	29	23	34	37	39	38	43	48	46	30	41	51	46	37	47	32	51	50	41	29	1016
	096	413	50	53	42	65	64	63	82	60	75	65	41	41	56	54	56	74	57	75	74	49	61	1670
	099	742	137	133	123	139	130	146	148	141	130	144	147	179	173	182	215	212	223	231	156	136	132	4099
	100	473	76	76	57	68	50	71	60	68	91	77	75	67	57	75	71	51	43	37	28	34	30	1735
	101	449	65	63	64	62	55	69	68	74	69	67	78	85	53	55	83	64	69	71	54	57	66	1840
	102	184	23	26	29	44	50	39	41	43	50	44	37	43	24	30	31	37	18	46	41	43	39	962
	104	295	30	34	38	56	39	46	36	39	36	33	32	47	36	41	39	34	26	34	42	43	35	1091
	105	235	33	29	35	34	25	31	30	21	26	28	21	24	26	22	26	13	20	27	18	19	13	756
	106	561	49	59	39	58	52	59	44	79	64	82	95	76	66	73	83	78	69	69	63	79	67	1964
	108	624	80	88	111	102	101	144	116	122	134	89	128	125	145	143	161	146	189	145	124	122	128	3267
	109	115	14	21	19	30	25	28	20	19	9	16	15	14	11	17	22	21	18	6	22	12	6	480
	110	349	76	56	48	71	58	44	61	59	53	62	76	44	41	34	44	37	37	36	31	21	20	1358
	111	218	24	22	26	27	27	22	34	25	26	18	27	32	36	27	22	29	33	42	25	30	21	793
	112	219	32	38	42	34	27	35	22	39	35	26	22	27	31	29	46	43	35	40	31	18	24	895
	114	1032	139	172	168	255	195	262	260	246	199	199	199	182	198	191	212	221	232	193	179	191	150	5275
	116	567	71	67	86	76	105	124	119	142	86	98	117	95	110	93	85	118	117	96	94	85	85	2636
	117	61	4	7	8	11	14	2	9	7	7	5	8	13	7	6	16	9	12	9	5	7	6	233
	118	498	50	82	71	88	76	73	68	98	69	76	84	79	67	77	94	92	71	73	63	60	59	2068
	119	944	127	138	111	122	161	169	205	248	263	212	222	202	237	227	341	290	276	257	311	303	232	5598
	122	327	65	50	41	48	33	45	35	29	22	22	38	22	27	21	28	31	27	29	16	34	21	1011
	123	1603	240	212	181	206	161	218	198	224	199	181	178	165	178	160	194	183	162	231	176	182	170	5602
	124	329	46	53	59	71	61	86	64	72	76	79	82	91	87	105	82	72	73	76	75	98	101	1938
	125	118	16	18	14	18	13	16	20	16	18	15	13	14	13	20	15	16	26	21	15	22	27	484
	126	2449	331	266	232	211	173	195	167	149	125	157	145	137	150	124	152	176	183	151	94	126	117	6010
	127	50	5	2	4	3	1	1	4	4	12	5	7	8	5	4	7	10	6	5	6	2	3	154
	128	921	142	156	184	228	159	290	291	356	317	298	369	368	374	345	436	369	372	327	296	312	265	7175
	131	287	26	28	42	32	26	34	27	28	29	10	20	22	27	29	51	43	42	18	22	24	29	896
	132	379	49	77	84	90	63	99	109	133	97	97	115	102	129	127	200	247	181	133	109	102	78	2800
	134	563	62	69	73	88	103	122	104	140	120	109	110	137	125	104	140	182	158	132	133	104	80	2958
	135	346	45	47	51	56	75	123	98	102	89	109	139	101	128	133	136	120	131	161	118	119	126	2553
	136	277	20	26	22	28	22	29	21	24	23	19	22	24	26	24	26	18	27	22	23	17	24	764
	137	1970	261	295	286	326	296	385	325	329	344	311	335	264	259	266	309	365	372	359	236	238	208	8339
	138	596	87	71	98	93	71	94	79	92	84	74	75	76	74	58	81	112	101	86	82	64	62	2310
	139	141	12	14	12	20	7	22	9	21	16	12	15	23	15	11	15	12	12	12	9	1	15	426
	140	120	11	20	17	19	14	10	15	10	8	8	13	12	12	10	15	17	12	13	5	9	6	376
	141	540	67	78	83	105	80	114	92	109	104	102	115	120	124	98	108	140	129	129	116	94	115	2762
	142	15	0	6	6	3	3	1	5	7	5	2	3	4	3	5	3	6	4	2	0	5	0	88
	144	564	94	87	86	89	101	98	90	98	97	74	82	72	68	82	82	96	89	81	83	84	60	2357

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

1977-

CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
147	3	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	9
148	176	29	15	15	28	19	23	31	27	36	32	39	29	16	23	26	27	29	39	36	44	36	775
149	64	3	5	3	7	4	5	4	5	2	4	5	3	8	5	7	2	2	3	1	4	3	149
150	128	8	16	17	22	35	43	62	62	40	45	43	46	57	52	62	66	75	74	57	45	39	1094
152	239	21	14	15	29	24	47	28	28	23	29	33	19	25	20	27	29	28	27	24	36	22	787
156	1382	147	212	206	196	182	214	205	183	207	189	205	225	184	176	238	232	205	229	188	190	162	5557
157	60	5	8	4	5	13	6	8	7	8	6	4	5	6	3	4	5	7	8	3	3	2	180
159	115	6	12	13	11	16	12	17	8	10	14	11	14	7	11	15	9	5	7	13	6	11	343
160	478	74	71	57	102	104	137	129	150	128	111	105	129	138	126	147	146	171	144	131	122	110	3010
162	151	21	24	17	22	24	20	26	22	20	27	26	21	24	28	29	20	21	27	14	17	10	611
163	1	0	1	0	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	8
164	302	41	41	53	51	34	43	43	27	22	32	34	25	34	23	28	16	11	31	41	30	14	976
165	1256	163	146	135	158	134	117	111	91	115	99	117	103	107	67	125	115	103	143	107	94	127	3733
166	507	106	94	83	116	76	93	88	100	116	89	107	91	89	76	111	90	118	153	102	106	92	2603
168	31	3	7	5	4	8	10	10	16	14	11	5	2	6	8	7	5	12	9	11	10	7	201
169	156	22	16	24	30	17	27	26	36	38	26	24	19	38	41	41	58	54	39	42	31	25	830
171	76	6	7	5	6	4	0	10	7	9	10	13	4	3	2	5	5	6	3	5	1	2	189
172	736	78	81	91	71	61	95	110	75	68	64	67	95	82	67	97	84	87	75	68	62	46	2360
173	289	30	26	45	45	27	50	37	43	38	24	31	30	34	23	41	36	46	30	24	39	39	1027
174	468	74	66	106	86	98	97	87	97	94	91	91	76	90	87	147	133	108	155	159	125	141	2676
175	530	93	78	58	79	65	85	81	83	84	61	61	73	68	48	74	67	69	72	67	76	57	2029
177	180	25	24	27	36	34	38	26	22	23	24	16	16	11	19	28	18	18	17	21	26	20	669
178	56	3	8	5	9	8	6	3	8	4	6	4	4	11	5	9	6	8	4	6	7	0	180
180	905	100	111	141	146	134	156	112	141	127	114	146	141	150	118	142	166	146	138	167	148	124	3773
181	403	51	55	55	59	51	73	74	54	58	69	52	44	47	51	66	79	79	53	63	63	46	1645
182	640	127	128	166	133	116	128	137	155	150	99	134	101	112	111	154	165	152	100	124	113	142	3387
184	153	20	32	28	28	23	37	48	39	37	37	39	53	55	28	35	41	40	46	30	25	22	896
185	49	5	3	4	5	2	7	5	2	4	2	1	1	4	5	2	4	6	5	5	4	2	127
186	34	3	3	7	4	5	3	2	6	9	4	3	11	7	6	5	8	4	5	6	3	6	144
187	128	24	19	14	25	17	16	19	27	27	28	37	25	30	27	24	36	25	21	26	25	13	633
188	554	71	77	80	86	73	114	91	78	71	79	97	98	104	85	111	108	110	91	114	75	67	2434
190	140	21	20	29	29	37	43	42	42	41	40	36	48	58	49	50	55	43	50	52	45	24	994
191	73	8	4	8	9	7	5	8	5	9	5	12	8	6	10	9	9	14	21	18	10	6	264
192	324	46	56	48	49	24	53	42	61	45	34	40	31	67	46	32	59	49	44	36	38	30	1254
193	135	13	12	14	22	22	16	14	16	16	19	10	16	11	9	10	11	16	18	19	9	5	433
194	119	13	19	16	13	18	11	13	21	16	18	14	21	23	16	12	17	10	15	9	11	8	433
196	35	0	4	0	3	3	2	6	1	2	2	4	4	3	1	9	8	1	6	3	1	1	99
198	827	86	123	128	116	128	130	137	129	135	111	117	84	76	76	89	82	101	103	104	80	72	3034
200	834	98	100	82	106	94	137	117	118	104	93	95	92	95	93	119	103	80	64	81	72	76	2853
201	105	9	5	9	9	2	11	3	2	10	3	6	7	3	3	5	4	4	3	3	3	4	213
202	295	23	25	31	21	22	22	32	15	17	21	19	21	16	21	23	18	21	10	20	12	12	717
203	191	24	33	35	43	28	31	48	22	35	39	25	52	19	30	40	28	18	12	24	11	8	796
204	581	86	54	64	77	63	107	102	81	108	88	94	117	86	88	92	75	103	135	84	73	74	2432
205	358	40	33	32	49	31	34	36	32	49	51	63	54	41	39	51	41	47	68	52	30	37	1268
206	1800	251	276	309	335	411	536	504	512	461	494	457	448	431	441	626	590	582	493	416	394	333	11100
208	188	29	18	9	9	8	26	22	16	19	12	15	15	26	12	18	30	15	19	11	14	9	540
209	541	71	74	68	62	69	80	74	81	75	97	74	65	53	57	59	72	59	50	54	37	40	1912
210	1734	220	238	226	263	286	356	324	363	403	373	325	335	368	344	367	399	370	420	336	306	275	8631
211	972	138	149	154	177	190	236	214	270	251	221	214	196	262	220	300	287	284	238	216	222	180	5591
212	172	20	21	18	29	30	30	24	24	17	19	17	23	25	19	25	28	34	22	25	23	15	660

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																						TOTAL
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
213	26	3	3	4	3	2	3	1	3	3	0	2	0	2	0	2	1	3	4	2	1	5	73
215	432	98	104	74	103	132	134	117	119	97	92	87	103	90	96	101	112	121	96	88	73	64	2533
216	71	11	17	12	16	24	12	13	18	17	11	21	24	11	10	17	14	13	18	23	23	27	423
217	82	12	6	5	15	10	13	11	7	8	9	8	4	5	6	7	4	7	6	4	5	1	235
218	19	0	4	6	2	2	3	2	1	1	3	3	1	6	1	1	1	3	4	0	0	2	65
219	1082	133	185	146	173	158	204	201	177	156	167	154	169	153	148	206	200	257	191	172	164	182	4778
220	1418	204	243	243	255	293	384	401	403	384	413	368	346	389	328	417	437	429	390	349	319	273	8686
221	409	50	57	72	71	54	61	69	86	81	70	78	65	76	49	81	76	72	77	102	87	61	1904
222	1609	229	207	211	217	207	306	283	334	309	293	325	292	296	250	291	383	308	308	283	205	231	7377
223	209	22	36	48	48	35	41	50	56	45	30	29	32	47	64	51	60	75	64	36	24	39	1141
224	952	169	133	122	140	215	263	289	286	248	266	267	290	308	303	335	347	314	297	248	240	214	6246
225	112	23	24	17	22	22	32	21	27	32	14	17	15	22	10	22	23	23	11	16	27	17	549
226	226	31	29	18	29	29	24	24	14	11	17	10	18	14	14	17	14	10	11	7	4	6	577
227	195	32	32	31	38	29	43	23	29	30	37	31	33	26	36	30	35	37	28	41	37	37	890
228	290	31	45	54	48	43	49	47	36	43	43	30	42	39	32	26	41	42	43	34	39	33	1130
229	404	65	64	78	84	99	131	117	140	104	105	98	95	78	85	115	106	107	104	83	73	37	2372
231	6	2	3	0	1	1	1	1	2	3	0	1	0	0	1	0	1	3	0	1	1	2	30
232	148	11	24	13	28	33	32	42	44	25	27	18	39	23	29	19	30	24	21	14	20	24	688
234	3	0	1	2	1	1	2	0	0	2	0	0	0	0	0	2	1	0	1	0	0	1	17
235	395	55	50	54	58	60	86	64	54	55	54	67	93	84	76	80	118	119	73	100	129	128	2052
236	349	50	61	42	44	36	49	32	23	33	27	38	29	20	18	25	25	39	24	32	24	22	1042
237	459	53	46	36	34	37	39	36	29	19	24	20	12	18	15	14	30	29	23	15	20	18	1026
238	101	15	8	4	14	8	16	18	14	17	13	9	15	20	10	22	12	12	15	13	14	10	380
239	1293	146	145	180	167	187	224	224	201	195	202	252	168	139	191	249	265	292	221	214	205	181	5541
241	518	44	63	73	76	76	95	89	89	90	128	107	99	96	83	95	116	87	59	74	85	61	2303
242	867	111	144	97	145	134	139	124	111	97	112	115	97	114	118	128	156	133	122	142	125	84	3415
244	542	84	62	83	110	95	114	79	114	127	103	87	67	81	59	107	110	120	119	129	122	113	2627
245	7	3	1	0	1	2	2	0	2	0	3	2	1	2	2	0	3	1	1	1	0	2	36
246	44	3	3	2	5	8	5	6	7	3	8	7	14	6	9	15	8	16	16	15	16	9	225
248	2321	357	369	408	481	450	597	632	713	660	569	577	548	604	551	749	673	741	651	659	606	508	14424
249	462	62	57	41	66	58	72	54	57	48	44	57	35	45	61	60	51	49	50	49	42	33	1553
250	858	115	113	117	160	114	206	169	182	167	147	125	175	150	154	177	170	142	142	138	172	154	4047
251	844	130	172	139	163	133	169	136	135	165	141	153	138	117	107	124	138	147	136	100	98	92	3677
252	402	79	50	61	69	57	60	56	56	60	46	49	64	80	68	66	74	72	74	73	62	57	1735
254	713	117	103	87	111	106	115	105	92	99	114	96	102	89	101	95	132	137	124	106	119	105	2968
256	256	30	39	26	42	30	49	33	54	52	34	52	52	54	61	55	64	57	52	51	72	63	1278
257	300	43	49	44	58	48	68	68	81	88	75	110	129	117	130	164	172	166	231	233	227	191	2792
258	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
260	39	3	3	2	0	4	3	2	3	1	1	1	0	0	1	0	2	0	1	0	0	0	66
261	831	94	72	80	79	61	77	76	81	84	59	58	62	58	57	59	52	60	65	52	43	47	2207
264	1416	174	178	176	194	204	234	252	221	225	260	250	209	226	202	269	233	225	206	196	193	159	5902
266	249	48	25	37	26	30	29	15	22	19	19	22	30	19	26	21	17	29	17	19	19	23	761
267	249	31	36	45	74	51	71	46	47	36	33	43	38	42	28	36	45	27	30	44	27	31	1110
269	600	86	102	98	134	108	148	146	95	121	94	95	73	109	77	106	113	109	92	86	95	77	2764
270	59	8	12	10	7	9	8	12	6	5	6	9	5	5	3	7	3	9	4	3	4	5	199
271	194	38	35	40	48	30	34	26	31	33	33	19	29	21	11	19	18	20	14	16	13	9	731
273	1629	210	243	188	209	210	301	300	341	307	295	359	325	302	303	371	322	287	297	303	290	207	7599
277	345	56	65	47	42	47	53	55	49	47	36	50	41	45	38	29	38	30	58	57	34	36	1298
278	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	5
279	237	30	44	56	51	27	39	44	53	34	28	34	31	30	24	34	44	23	39	17	25	10	954

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CLASS	1977-																						
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
280	2464	316	323	396	387	429	506	415	480	442	495	565	515	518	392	600	576	652	620	628	530	495	12744
281	136	39	40	50	49	39	61	62	61	52	57	47	58	49	59	73	79	65	43	46	31	26	1222
283	228	42	46	64	67	39	73	89	67	81	89	85	73	67	66	102	116	101	79	56	45	34	1709
285	780	111	109	126	152	111	160	113	139	126	116	134	109	95	96	121	156	110	105	97	103	84	3253
289	59	4	5	8	7	3	6	3	6	5	3	4	7	7	12	5	8	7	12	8	6	6	191
290	402	51	41	32	31	31	25	18	18	19	10	24	30	13	18	34	23	36	37	32	22	69	1016
291	9	2	1	2	0	2	2	1	0	2	0	0	0	3	0	0	1	2	1	2	1	1	32
292	617	90	64	101	137	98	123	101	137	122	84	88	90	115	110	99	114	107	75	111	102	75	2760
293	105	11	10	16	18	14	22	28	23	22	18	13	9	10	19	17	20	13	21	14	22	14	459
294	1092	168	167	157	200	211	231	201	191	178	186	178	206	195	185	237	212	209	134	188	136	89	4951
295	9	2	3	3	3	1	0	2	2	1	0	0	2	3	1	0	2	1	2	1	2	1	41
296	804	92	111	110	158	151	198	226	231	188	160	155	154	184	168	214	210	257	260	192	203	210	4636
297	859	115	148	183	200	188	268	233	235	224	182	281	224	280	247	296	316	355	267	260	261	252	5874
298	124	12	11	25	25	13	20	16	26	15	19	13	15	13	11	16	14	18	15	12	17	28	478
299	244	40	25	20	34	32	35	26	28	24	33	11	20	15	22	20	20	25	19	19	21	14	747
300	25	4	3	5	6	1	4	3	9	5	5	5	6	2	6	6	6	1	6	1	5	2	116
301	167	29	17	27	32	32	26	42	44	44	39	42	36	52	30	43	46	53	56	55	53	45	1010
303	82	6	6	11	13	9	11	16	9	14	21	16	21	13	17	13	16	13	16	21	15	8	367
305	53	15	5	10	7	9	10	6	6	3	9	11	13	4	8	10	10	14	10	11	10	4	238
307	459	63	42	43	80	69	95	59	63	63	61	59	72	105	103	121	125	93	60	61	76	65	2037
310	498	75	62	84	82	78	93	60	70	79	78	66	72	69	72	104	101	90	106	94	85	116	2234
312	774	104	89	96	114	114	122	121	103	138	125	117	125	145	126	174	170	172	118	138	126	105	3416
313	214	27	26	30	37	36	40	42	34	30	21	22	32	39	27	41	58	37	47	42	49	42	973
314	9	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	13
315	378	50	49	45	73	57	89	91	104	64	66	50	85	73	49	79	71	91	94	73	97	65	1893
318	390	61	55	60	68	64	68	78	61	45	49	65	69	62	44	71	52	64	55	49	39	36	1605
320	97	12	10	20	26	12	19	14	13	29	41	28	19	36	42	41	46	47	54	46	44	38	734
322	84	14	10	6	14	9	8	6	11	10	10	4	3	13	11	8	5	7	8	4	8	9	262
323	130	17	22	19	33	15	34	21	27	23	20	18	11	25	19	27	21	30	30	39	21	17	619
324	686	107	104	83	114	115	171	134	128	130	113	108	146	148	104	148	119	132	154	166	139	127	3376
326	21	4	2	5	6	6	7	8	6	11	9	18	8	11	12	15	11	9	12	17	12	13	223
327	292	30	22	17	32	23	37	34	26	37	26	35	29	37	18	42	39	38	36	34	30	29	943
329	22	5	5	7	3	3	3	0	6	4	3	3	8	4	2	2	3	3	2	2	0	2	92
330	120	21	20	16	25	23	31	12	17	16	8	9	9	19	16	22	21	19	25	16	23	22	510
331	118	21	7	13	23	4	14	13	15	6	8	7	6	13	9	17	17	9	14	8	10	7	359
332	29	6	3	9	2	3	3	3	6	2	2	3	7	6	2	2	5	5	4	7	1	2	112
333	135	22	23	26	24	26	32	24	24	25	25	24	26	25	19	30	25	27	21	23	30	20	656
334	15	4	1	2	1	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	1	0	28
335	222	24	28	19	32	33	26	19	23	20	25	27	21	29	26	23	31	24	19	28	23	746	
336	103	18	18	11	17	10	17	15	10	11	10	15	15	19	13	17	17	12	10	12	18	28	416
337	150	15	22	9	17	15	16	13	15	15	10	7	10	11	18	21	27	22	20	18	23	16	490
338	193	15	25	23	23	26	28	31	25	22	17	12	6	14	13	14	13	20	8	10	9	7	554
340	1755	174	201	202	306	297	463	351	359	318	275	299	359	430	457	545	533	569	516	464	359	431	9663
341	152	13	24	25	38	30	52	33	23	30	37	23	37	40	56	54	50	53	51	57	51	36	965
342	205	25	21	23	44	21	30	37	28	35	44	47	38	61	46	73	66	68	87	72	62	55	1188
343	233	20	18	35	37	33	44	35	45	13	31	26	38	38	30	47	54	55	61	58	35	38	1024
345	173	26	21	28	40	58	73	57	48	55	39	74	76	91	113	132	152	183	182	165	158	136	2080
346	133	13	20	14	14	18	19	13	14	8	5	4	5	7	2	3	6	2	4	3	1	1	309
347	78	8	11	9	15	18	20	17	14	14	10	17	19	19	21	33	21	28	25	35	33	27	492
348	334	34	54	65	72	55	94	115	99	93	76	86	104	123	114	129	133	126	114	105	115	124	2364

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CLASS	1977-																						
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
349	53	2	9	7	12	12	13	14	10	17	8	7	26	23	17	16	15	16	25	17	23	19	361
351	280	40	46	42	71	72	122	100	90	88	73	78	98	85	93	101	132	130	111	107	110	110	2179
352	188	18	23	28	26	11	16	26	32	18	19	11	13	16	15	17	22	11	11	10	12	16	559
353	198	20	20	19	14	14	14	19	15	16	21	17	25	15	15	17	25	18	15	19	13	33	582
355	271	34	50	36	33	30	34	19	29	25	17	23	15	10	16	15	18	7	19	10	14	9	734
356	553	65	83	62	87	78	109	98	112	104	108	84	110	112	110	128	131	124	67	91	98	101	2615
358	72	7	15	28	15	21	26	24	31	32	22	34	43	41	30	36	56	33	19	30	30	34	679
359	938	117	122	151	158	158	190	226	170	186	160	160	152	146	120	186	202	189	217	224	184	171	4527
360	274	33	44	52	64	40	59	47	45	42	48	43	39	47	31	45	26	30	34	31	34	21	1129
361	616	93	92	87	129	106	153	105	118	131	112	103	139	146	148	205	174	193	197	193	190	213	3643
362	836	120	146	160	163	211	254	266	298	274	214	272	301	324	314	404	383	483	483	428	479	414	7227
363	130	26	23	20	36	30	43	28	29	26	36	24	22	30	32	35	32	38	39	41	29	22	771
365	78	12	8	8	8	8	19	11	23	19	31	33	28	34	37	40	34	38	30	25	33	22	579
366	592	96	79	80	71	96	91	93	81	67	71	79	94	98	77	102	98	84	93	66	54	53	2315
367	232	24	34	29	50	31	45	65	40	59	63	30	38	38	38	38	38	35	32	29	23	26	1037
368	284	48	40	40	44	54	48	56	56	56	58	65	37	38	53	62	55	52	66	67	47	59	1385
369	219	18	32	19	25	38	28	19	27	23	25	24	42	28	32	42	27	34	29	30	35	21	817
370	90	15	13	18	18	13	30	19	19	23	20	12	43	57	42	62	54	55	53	44	46	59	805
372	93	22	18	15	14	31	34	46	31	16	24	28	32	28	31	27	23	21	22	22	36	44	658
373	96	12	4	6	7	9	6	9	6	9	5	9	9	7	2	4	9	19	8	11	4	8	259
374	252	33	51	30	33	40	47	40	32	34	28	29	17	27	31	48	23	34	29	25	23	23	929
375	107	14	14	23	19	14	36	21	35	30	19	26	36	50	48	46	59	47	32	43	42	54	815
376	220	24	20	20	22	18	16	22	16	22	22	16	17	21	16	17	10	8	9	5	9	8	558
377	218	27	23	10	17	16	31	13	13	15	14	12	12	12	6	4	6	11	8	8	3	7	486
378	214	25	26	45	32	36	40	43	55	51	44	35	33	48	26	47	31	41	34	37	33	24	1000
379	371	55	47	75	82	102	128	98	103	94	54	82	108	123	111	148	126	121	110	92	109	116	2455
380	51	4	8	11	15	17	15	32	41	23	29	34	22	27	44	43	26	39	30	25	16	20	572
381	399	64	50	56	69	49	102	85	59	69	69	65	56	72	81	151	79	87	56	91	93	91	1993
382	59	12	15	18	22	19	26	25	39	30	39	25	43	55	61	73	94	88	70	71	87	91	1062
383	321	37	56	62	73	92	109	107	121	84	92	93	104	83	75	101	122	122	106	68	57	46	2131
384	293	39	59	56	53	49	53	57	48	51	46	65	56	44	33	47	36	32	55	47	35	19	1273
385	93	21	23	22	49	59	49	57	63	34	39	57	42	55	46	87	80	75	72	98	91	87	1299
386	60	14	14	13	16	12	21	18	19	13	14	10	9	10	16	10	14	16	17	15	10	15	356
388	29	10	4	5	3	3	2	5	10	2	4	9	4	8	3	4	8	5	2	1	1	2	124
392	335	31	47	52	46	47	50	42	29	43	44	48	50	34	33	59	63	54	48	41	36	35	1267
396	474	47	67	39	60	63	52	64	70	40	35	52	29	47	38	81	62	43	33	36	48	51	1531
398	44	5	12	7	14	9	12	10	7	8	9	14	10	19	15	19	24	19	19	30	16	20	342
399	63	5	5	5	8	3	9	13	10	16	16	16	21	7	13	19	13	11	24	13	14	8	312
400	188	52	53	31	43	35	43	39	40	37	47	35	59	43	37	42	39	34	23	29	37	34	1020
401	412	46	67	70	68	80	99	115	134	102	83	114	84	92	56	94	156	137	153	114	101	110	2487
402	79	16	21	30	24	16	32	26	37	27	26	28	20	31	33	43	32	39	23	26	18	18	645
403	1227	184	206	233	266	217	259	239	204	212	203	210	210	214	201	214	209	211	197	192	195	152	5655
404	418	56	46	73	92	78	97	117	108	93	105	90	106	88	95	88	101	98	87	97	85	121	2339
405	944	137	98	119	180	142	205	186	223	208	210	150	160	222	156	191	215	153	165	198	183	183	4628
406	168	20	24	13	22	15	27	20	27	21	17	6	15	18	12	10	14	13	20	14	19	11	526
407	122	19	12	28	20	15	12	18	29	22	17	11	10	6	22	19	20	23	19	8	15	5	472
408	463	64	71	97	79	59	74	87	107	74	53	71	67	58	67	91	87	54	80	51	58	43	1955
409	238	30	42	67	54	49	46	58	52	44	40	27	34	33	55	57	47	63	42	50	37	29	1194
410	192	23	24	21	27	35	46	43	45	35	38	31	51	46	34	47	49	59	60	53	61	58	1078
411	460	66	65	76	100	93	98	130	79	106	113	82	96	120	103	118	121	107	95	78	74	73	2453

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CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
412	37	6	8	4	6	4	4	10	7	7	11	4	9	6	10	8	6	11	12	9	3	3	185
413	24	1	2	4	2	1	1	1	3	3	1	5	0	5	1	3	4	7	2	0	2	2	74
414	1588	190	213	213	222	238	224	224	261	260	219	229	225	217	195	208	223	256	164	194	178	168	6109
415	465	59	63	30	45	63	40	30	42	46	50	49	51	51	29	32	30	50	59	64	66	61	1475
416	534	63	74	62	77	58	68	54	39	58	69	64	68	57	41	48	62	85	70	75	66	65	1857
417	945	135	160	147	138	150	151	106	140	121	134	122	118	118	107	119	125	155	155	153	127	102	3728
418	302	43	39	23	46	31	30	44	32	45	36	37	40	31	32	35	25	47	46	37	37	37	1075
419	55	9	7	11	12	7	9	13	14	8	3	13	7	12	10	7	11	12	6	9	14	10	259
420	138	12	8	3	12	7	20	14	20	13	8	18	16	8	11	11	13	9	11	25	21	17	415
422	903	111	96	123	122	132	147	146	169	188	180	181	211	178	179	213	213	197	222	191	198	140	4440
423	575	68	70	48	64	66	67	63	56	65	61	76	61	69	44	66	66	56	73	67	63	43	1887
424	632	105	99	109	126	136	209	184	194	196	195	176	213	251	334	394	455	389	489	476	448	279	6089
425	1108	143	154	137	168	201	202	177	158	148	152	150	151	142	132	157	133	129	118	115	93	96	4164
426	843	100	129	105	133	140	204	181	181	143	144	120	149	163	178	184	239	240	228	179	152	146	4281
427	915	109	144	110	146	118	144	127	136	129	111	130	134	123	132	166	161	165	153	134	143	124	3754
428	2131	268	351	334	330	348	418	403	353	335	338	342	353	351	344	398	409	384	380	304	351	274	9499
429	207	31	27	25	24	27	32	24	28	35	34	31	42	94	43	45	43	48	40	40	51	26	997
430	245	28	33	26	29	38	20	37	37	20	18	24	32	33	22	42	39	45	36	48	40	37	929
431	401	69	61	61	62	51	64	59	51	58	49	64	59	62	44	75	83	88	90	57	82	64	1754
432	340	58	35	47	41	39	34	31	29	30	23	27	18	15	21	24	27	32	27	24	25	16	963
433	748	137	139	131	132	151	160	152	213	196	170	183	131	171	150	245	231	179	221	163	151	106	4260
434	841	130	123	109	157	136	189	142	162	170	200	161	163	189	180	228	223	228	164	178	181	148	4402
435	536	79	55	66	99	92	118	116	114	133	153	155	171	191	248	368	387	320	390	299	320	247	4657
436	308	58	35	49	56	69	81	53	78	72	89	93	87	114	116	143	121	105	113	79	113	83	2115
438	110	11	21	16	26	18	16	19	26	31	25	34	49	31	25	53	61	78	103	90	116	118	1077
439	600	87	102	112	148	162	180	188	164	187	161	183	177	188	189	246	194	274	249	234	198	245	4468
440	259	37	48	50	75	53	69	73	85	64	69	64	62	68	71	78	71	80	63	57	62	61	1619
441	250	31	59	71	73	72	83	92	86	79	70	96	84	76	83	91	74	86	85	79	78	66	1864
442	147	25	33	20	26	25	35	29	19	22	24	32	42	28	27	49	57	46	40	19	20	27	792
445	29	4	1	5	3	4	3	4	2	4	2	3	5	3	6	5	11	7	5	5	6	4	121
446	1057	103	135	141	185	158	221	243	244	245	220	243	206	225	178	260	242	291	257	266	250	225	5595
449	55	10	11	4	5	7	1	1	7	3	0	3	4	1	5	2	1	2	1	4	5	6	138
450	87	4	7	10	12	8	20	14	14	16	18	7	17	18	21	28	53	68	45	39	16	21	543
451	639	76	100	105	131	117	122	124	126	107	142	94	103	109	113	107	124	127	154	123	111	120	3074
452	247	26	46	58	47	35	28	47	32	47	41	42	34	36	22	23	24	35	42	13	23	22	970
453	43	5	9	7	2	5	8	5	11	6	4	5	7	5	4	2	2	5	1	4	4	8	152
454	448	61	89	60	75	72	84	98	70	95	62	71	52	75	59	87	70	77	98	93	79	74	2049
455	323	37	23	29	49	58	70	47	64	71	55	46	74	100	77	105	116	119	96	117	111	140	1927
460	44	6	10	6	3	5	5	12	12	11	6	6	10	17	2	11	12	13	11	10	4	5	221
462	38	4	9	8	13	7	10	8	2	11	19	12	12	6	5	6	10	9	9	9	0	6	213
463	125	24	25	16	33	24	38	26	37	39	37	50	31	45	50	94	86	106	105	100	99	85	1275
464	187	20	16	18	25	22	33	22	21	19	15	24	18	16	26	19	23	23	35	14	21	13	630
470	84	6	9	8	12	9	16	18	7	8	11	13	8	7	6	8	7	5	5	5	5	1	258
472	205	22	26	35	24	30	41	66	41	40	48	49	46	47	48	75	59	48	42	44	42	38	1116
473	1405	162	204	166	210	211	326	368	386	382	368	450	483	450	431	541	447	376	370	363	362	336	8797
474	199	29	42	35	48	33	55	38	47	24	36	45	44	36	35	25	27	38	15	29	20	12	912
475	151	17	23	22	34	46	50	37	44	44	30	26	28	39	26	30	40	47	25	31	28	23	841
476	31	5	3	7	5	5	6	1	6	3	4	5	6	10	5	3	6	7	2	3	2	3	128
477	71	18	10	7	6	7	10	12	9	4	4	5	11	14	9	10	12	7	3	7	8	5	249
482	771	126	153	207	206	224	260	276	286	283	283	305	265	316	331	396	364	354	307	292	308	299	6612

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

	1977-																						TOTAL	
	CLASS	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		2004
	483	13	2	4	2	5	4	2	2	5	3	1	5	2	1	3	5	9	9	2	8	2	1	90
	492	72	8	8	11	8	7	13	17	6	6	13	5	16	15	11	15	12	18	9	9	6	12	297
	493	261	28	43	46	49	29	39	43	55	61	45	44	33	33	30	53	43	37	27	28	33	28	1088
	494	84	7	7	6	8	8	11	10	17	11	12	17	8	9	10	15	16	10	11	12	6	3	298
	501	109	24	17	15	15	14	18	26	24	24	26	28	25	27	22	22	23	17	31	20	22	13	562
	502	165	15	21	21	26	14	20	19	28	26	28	21	20	17	21	27	32	32	30	21	16	11	631
	503	19	0	1	2	0	2	4	4	4	5	2	4	1	4	3	7	4	1	3	3	2	4	79
	504	52	7	9	5	6	3	8	12	9	21	11	6	5	9	14	15	38	16	23	20	15	9	313
	505	75	9	1	1	2	2	5	9	7	15	14	9	13	10	12	8	14	17	9	6	11	6	255
	507	26	10	13	4	6	6	9	8	4	8	9	1	3	3	5	13	5	9	6	8	6	14	176
	508	37	8	6	2	11	5	8	6	11	9	9	8	11	10	10	16	16	12	12	7	10	6	230
	510	122	19	21	21	25	22	21	24	24	16	21	19	31	34	32	49	66	43	43	46	37	39	775
	512	7	0	2	1	1	3	1	3	3	2	1	3	4	3	2	4	3	7	5	1	3	2	61
	514	728	119	117	133	148	155	248	228	260	224	213	186	235	319	353	409	448	366	445	405	348	239	6326
	516	58	9	9	8	8	3	7	13	12	8	10	10	11	11	11	13	10	11	11	10	11	11	265
	518	12	0	3	3	3	0	2	0	0	2	1	2	2	3	0	2	1	2	5	1	1	2	47
	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	232	25	26	20	16	28	22	16	18	29	29	22	22	16	21	32	28	17	23	18	23	7	690
	522	41	4	8	2	8	7	3	6	2	5	5	3	12	10	5	6	9	7	8	6	12	8	177
	523	198	25	20	21	17	24	26	31	27	25	38	25	39	26	32	45	38	17	38	33	34	14	793
	524	423	40	39	36	44	38	52	49	56	56	43	52	54	57	55	81	56	54	60	59	60	34	1498
	525	291	33	30	19	23	20	31	42	40	44	42	30	35	29	29	45	35	33	29	35	34	20	969
	526	137	11	12	6	14	19	10	13	20	18	25	19	9	12	12	17	22	14	20	11	32	13	466
	527	41	2	0	1	4	3	6	3	2	7	5	5	5	2	2	3	0	3	2	2	1	2	101
	528	288	22	23	23	18	19	23	28	24	32	43	28	35	22	24	29	33	19	29	32	14	19	827
	530	246	35	26	27	28	26	45	33	51	53	59	53	61	65	109	161	138	94	133	98	115	99	1755
	534	24	5	3	4	5	3	7	7	5	4	4	3	3	2	5	8	2	4	2	2	2	0	104
	536	143	18	15	16	22	23	28	31	35	43	29	29	48	81	88	145	173	121	136	105	115	82	1526
	540	65	3	6	5	12	7	10	8	11	5	7	4	8	6	20	10	11	6	8	12	7	7	238
	544	98	17	21	18	13	10	18	22	15	18	14	14	18	23	20	19	24	26	20	21	20	21	490
	546	96	13	17	16	15	12	23	20	11	20	19	16	20	30	25	23	20	32	26	20	33	23	530
	548	90	21	16	17	13	17	23	15	20	26	15	21	16	30	20	17	20	16	16	25	24	20	498
	549	94	8	6	13	10	5	15	16	15	10	20	12	11	15	18	27	25	23	25	20	18	12	418
	552	40	9	1	4	2	2	3	6	9	3	2	1	5	2	3	2	7	2	4	3	5	3	118
	554	62	6	9	7	3	3	7	7	8	5	4	11	9	10	11	8	8	11	11	17	13	13	243
	556	87	4	11	7	7	7	5	8	12	10	7	7	11	12	14	7	14	5	14	8	9	6	272
	558	61	16	7	5	6	7	12	9	4	10	12	4	12	11	6	10	15	6	6	9	3	4	235
	560	89	13	17	8	21	12	23	16	13	16	21	15	13	21	13	13	16	10	15	21	19	8	413
	562	94	14	11	11	13	15	26	13	14	14	21	13	17	13	17	15	17	10	22	16	15	8	409
	564	80	14	14	8	6	6	15	13	12	12	9	8	19	19	17	11	10	11	19	19	14	6	342
	568	116	6	17	17	22	10	23	20	23	31	23	17	31	15	18	34	35	18	13	14	15	17	535
	570	21	1	2	1	2	0	5	3	5	15	3	0	3	3	5	2	4	3	7	2	0	1	88
	585	79	16	13	11	12	5	23	20	16	25	17	9	31	16	15	26	27	24	19	9	19	10	442
	588	52	11	15	13	13	11	15	11	7	12	21	33	37	37	43	31	39	28	17	27	10	11	494
	600	999	154	169	207	256	191	282	284	320	282	340	373	375	314	256	501	411	433	372	423	354	267	7563
	601	379	39	51	64	74	82	85	76	97	111	66	75	111	110	90	125	100	99	108	84	93	82	2201
	602	321	53	69	76	82	79	88	93	108	96	99	103	118	90	115	174	156	159	113	122	131	107	2552
	604	1167	190	220	269	349	303	440	397	442	439	514	562	480	442	426	522	414	405	342	336	412	273	9344
	606	652	143	153	207	213	209	249	239	292	344	386	440	427	462	547	606	580	520	437	385	444	292	8227
	607	305	38	68	80	66	60	81	89	94	82	80	86	107	97	80	124	137	155	138	115	135	101	2318

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

	CLASS	1977-																				TOTAL		
		1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		2003	2004
	623	372	55	61	107	115	99	124	119	111	151	114	117	104	158	129	168	150	173	187	200	177	158	3149
	700	149	19	35	33	47	42	54	50	50	53	44	67	59	83	63	110	101	74	83	94	129	120	1559
	701	84	14	15	8	14	12	35	19	26	24	22	35	39	44	37	76	73	70	110	111	96	82	1046
	702	196	22	39	32	31	43	63	39	42	45	44	47	38	64	65	77	77	62	75	103	121	124	1449
	703	4	1	2	2	2	5	8	3	5	7	9	8	7	11	23	18	26	17	20	26	26	20	250
	704	39	11	5	10	13	6	14	18	20	19	21	19	27	21	29	48	47	29	44	40	32	35	547
	705	55	13	13	12	18	17	25	29	30	35	47	50	24	49	77	109	191	154	125	136	143	142	1494
	706	0	3	1	1	4	4	6	12	15	11	16	13	23	29	22	53	31	31	32	38	44	29	418
	707	11	2	2	2	2	1	4	5	4	3	13	16	23	19	33	73	86	61	72	83	106	116	737
	708	140	28	20	13	20	15	40	23	22	25	31	28	20	32	33	34	42	29	20	32	21	19	687
	709	5	2	1	1	2	2	0	4	2	3	7	6	7	23	26	60	59	77	80	88	92	106	653
	710	19	8	3	2	6	7	4	7	8	5	11	9	19	20	29	40	26	33	29	20	31	25	361
	711	23	6	2	4	4	7	6	5	7	6	10	10	19	19	32	31	24	19	19	14	24	23	314
	712	12	5	2	4	4	2	11	9	1	6	7	5	9	15	15	28	11	9	14	11	8	4	192
	713	15	5	8	8	8	9	17	19	24	16	23	28	22	40	47	64	53	64	56	49	50	50	675
	714	45	6	6	10	19	10	19	7	18	17	7	21	23	32	30	40	27	29	31	26	33	33	489
	715	12	5	11	3	5	7	17	12	9	19	20	34	25	28	50	86	82	62	80	57	72	73	769
	716	4	1	0	1	2	3	3	1	0	3	0	4	5	3	9	10	4	4	17	29	29	25	157
	717	2	1	3	1	0	1	1	1	1	2	0	3	7	8	8	13	19	14	15	16	12	12	140
	718	2	0	0	0	0	0	0	1	2	1	1	3	5	3	3	9	9	7	3	10	7	9	75
	719	0	0	0	0	0	1	0	0	0	0	1	0	5	3	4	8	3	7	7	14	13	9	75
	720	4	2	1	1	3	3	2	3	4	1	3	3	6	4	1	7	6	7	3	7	8	7	86
	725	39	4	9	12	8	8	8	16	19	12	14	12	16	32	19	32	38	31	26	17	20	20	412
	800	2	0	1	3	2	2	1	1	2	1	2	3	5	4	8	30	25	22	19	20	18	20	191
	901	72	11	14	26	37	26	26	17	35	26	22	18	19	19	16	20	19	16	16	20	16	12	503
	902	40	11	3	23	30	8	8	5	6	4	5	6	6	2	12	9	4	11	2	4	5	3	207
	930	67	6	7	9	19	19	11	0	0	3	3	3	0	0	2	4	4	4	6	2	1	2	172
	968	364	52	42	32	49	53	54	46	1	0	0	0	0	1	0	2	0	1	1	0	0	1	699
	976	236	32	23	29	24	31	33	16	7	5	2	1	4	4	3	3	0	2	0	1	0	0	456
	977	0	0	0	0	0	0	0	0	0	0	0	2	1	2	2	2	1	2	2	3	10	2	29
	984	706	91	96	80	134	106	120	76	0	0	0	0	0	0	0	0	0	1	2	1	3	0	1416
	987	59	8	6	8	8	13	9	7	3	0	0	0	0	0	0	0	0	0	1	1	0	0	123
	D00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2
	D01	48	1	5	4	10	7	6	20	22	9	13	17	10	19	24	27	30	32	21	6	27	385	
	D02	443	70	103	79	106	100	110	122	156	101	172	178	188	205	195	300	253	210	154	208	179	159	3791
	D03	818	108	123	95	103	118	105	212	233	225	288	269	269	263	248	330	338	315	270	246	247	206	5429
	D04	94	30	30	38	39	46	33	39	49	51	69	58	73	88	71	93	74	95	85	113	59	43	1370
	D05	56	6	8	2	2	6	8	7	6	5	4	5	6	6	11	15	10	17	19	7	17	9	232
	D06	2430	345	371	396	413	355	351	447	537	539	713	578	719	652	583	735	676	742	651	694	580	463	13970
	D07	1223	169	155	225	231	197	241	234	232	237	371	325	314	396	262	344	285	364	333	258	311	290	6997
	D08	1366	249	223	251	225	265	268	340	411	393	459	446	491	447	383	551	469	538	404	341	458	397	9375
	D09	527	87	81	95	101	95	78	152	205	148	173	187	194	216	205	207	177	201	213	157	194	136	3829
	D10	768	110	127	103	133	129	118	157	234	192	269	278	282	201	200	291	262	230	204	199	158	166	4811
	D11	1076	101	144	110	106	92	123	123	177	157	211	219	233	199	207	239	219	252	254	249	197	186	4874
	D12	873	98	101	154	253	267	246	343	331	361	390	344	351	361	290	374	285	356	282	242	269	306	6877
	D13	176	32	34	34	32	35	26	50	77	66	74	86	85	77	74	85	118	110	99	106	105	64	1645
	D14	397	68	63	67	78	78	88	110	129	117	166	138	180	178	185	212	181	235	181	183	193	171	3398
	D15	524	110	82	65	54	57	62	84	57	124	140	90	152	141	89	106	82	77	64	58	81	82	2381
	D16	164	33	26	36	32	29	21	63	42	57	49	55	49	80	63	82	74	102	51	60	88	50	1306
	D17	158	22	39	27	27	26	20	37	34	32	37	41	35	36	26	40	46	26	42	23	40	21	835

PATENTS GRANTED BY CLASS BY YEAR (ORs + XRs)

CLASS	1977-																						TOTAL
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
D18	164	31	26	33	38	18	23	28	43	27	52	29	28	31	18	29	25	34	20	29	25	15	766
D19	577	69	71	94	69	61	76	82	143	142	153	155	182	129	155	209	162	156	156	121	135	132	3229
D20	169	24	37	28	26	30	22	56	62	55	82	81	90	73	95	114	90	82	59	28	78	62	1443
D21	1701	208	236	231	285	261	330	366	516	475	482	564	550	496	461	677	512	543	486	388	342	319	10429
D22	475	76	57	68	84	84	118	114	90	97	108	116	128	139	95	97	116	102	97	108	98	80	2547
D23	866	109	78	103	109	89	91	123	227	179	169	222	230	174	186	240	232	285	210	206	210	200	4538
D24	733	137	123	160	149	152	169	185	195	229	243	235	232	230	200	246	220	226	252	199	186	126	4827
D25	811	132	63	106	76	80	81	67	83	111	111	153	141	123	127	144	142	145	125	156	147	129	3253
D26	363	51	55	54	65	67	78	73	121	125	111	154	159	200	179	234	183	275	328	272	257	221	3625
D27	177	16	9	15	13	10	11	14	19	6	9	18	21	20	26	49	55	38	40	42	37	38	683
D28	283	55	60	78	45	58	84	147	83	57	86	130	104	112	127	114	104	176	154	104	115	112	2388
D29	131	22	35	32	28	54	38	52	34	42	58	65	80	73	59	52	53	67	36	57	41	44	1153
D30	359	36	49	40	71	80	57	66	120	118	154	140	145	135	117	88	79	130	72	72	81	74	2283
D32	211	32	36	39	65	50	45	79	76	65	81	103	122	99	105	121	92	90	69	66	83	54	1783
D34	238	45	41	82	111	151	137	121	203	228	206	146	169	97	81	117	86	96	76	74	87	65	2657
D99	131	20	24	19	27	7	25	23	22	29	40	31	53	34	43	48	38	45	59	33	67	48	866
PLT	422	58	77	73	66	132	188	98	119	75	101	97	78	83	91	124	101	92	125	261	232	156	2849
TOTAL	181392		26292		31096		36081		36659		34695		35922		34934		43254		40562		36838		918589
		24928		27120		29145		34775		34784		35547		37032		43925		42927		38048		32633	

U.S. PATENT CLASSES AS OF 31-DEC-2004
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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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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 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	Optical: 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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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 Separant 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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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
	Multicomputer Data Transferring or Plural Processor Synchronization
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, Operator Interface Processing, and Screen Saver Display Processing
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)
720	Dynamic Optical Information Storage or Retrieval
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
977	Nanotechnology
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

U.S. PATENT CLASSES AS OF 31-DEC-2004
TITLES ARRANGED IN CLASS NUMBER ORDER

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