

CONCORDANCE - United States to International Patent Classification

U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation
U.S. CLASS 508--Con.						U.S. CLASS 510								
438	C 10 M	173 / 02		C 10 M	169 / 02				191-192	C 11 D	17 / 00	348	C 11 D	3 / 12
439-440	C 10 M	169 / 04	524	C 10 M	131 / 12				193	C 11 D	3 / 37	349	C 11 D	17 / 00
441	C 10 M	137 / 04	525	C 07 C	31 / 32				194	C 11 D	3 / 20	350	C 11 D	3 / 37
	C 10 M	137 / 10		C 07 F	5 / 06				195	C 11 D	3 / 395	351	C 11 D	1 / 83
442	C 10 M	141 / 10	526	C 10 M	129 / 40				196	C 11 D	7 / 06	352	C 11 D	3 / 20
443-444	C 10 M	135 / 18	527-528	C 10 M	173 / 02				197-198	C 11 D	3 / 00	353	C 11 D	9 / 00
444	C 10 M	135 / 26	529	C 10 L	1 / 10				199	C 11 D	3 / 395	354	C 11 D	1 / 14
445	C 07 F	11 / 00	530	C 10 M	173 / 00				200-213	C 09 D	9 / 00	355-357	C 11 D	3 / 00
	C 10 M	135 / 14	531	C 07 C	39 / 00				214-217	C 09 K	3 / 22	358	C 11 D	3 / 20
446	C 10 L	1 / 22	532	C 10 M	173 / 02	100	C 11 D	3 / 40	214	C 11 D	3 / 00	359	C 11 D	3 / 00
447	C 10 M	135 / 22	533	C 07 F	7 / 00				215	C 09 G	1 / 02	360-361	C 11 D	3 / 37
448	C 10 L	1 / 22	534	C 10 M	169 / 00	101-107	C 11 D	3 / 50	217	C 11 D	3 / 20	362	C 11 D	3 / 20
	C 10 L	10 / 00	535	C 07 C	51 / 295				218	C 11 D	3 / 02	363	C 11 D	3 / 02
449	A 01 H	5 / 02	536	B 21 C	37 / 02	108-119	C 11 D		219	C 11 D	3 / 00	364	C 11 D	1 / 00
450	C 10 M	173 / 02	537	B 62 M	9 / 00	108	C 11 D	3 / 02	220	C 11 D	3 / 39	365-366	C 11 D	3 / 20
451	C 10 M	159 / 06		C 10 M	129 / 26	109	C 11 D	3 / 20	221-222	C 11 D	17 / 00	367-381	C 11 D	3 / 00
452	C 10 L	1 / 22	538	C 07 C	51 / 41	110	A 62 D	3 / 00	223	C 11 D	3 / 37		C 11 D	7 / 18
453	C 08 F	8 / 30	539	C 10 L	1 / 18	111	A 01 K	43 / 00	224-225	C 11 D	17 / 00		C 11 D	7 / 54
	C 10 M	159 / 16	540	C 07 F	9 / 52				226	C 11 D	3 / 386		C 11 D	9 / 42
454	C 10 L	1 / 22		C 10 M	133 / 56	112-113	C 11 D	3 / 00	227-229	C 11 D	3 / 395	382-391	C 11 D	3 / 48
455	C 10 M	173 / 02	541	C 23 F	11 / 10	114	C 11 D	3 / 386	230	C 11 D	3 / 37		C 11 D	9 / 50
456	C 10 M	101 / 04	542	C 10 L	1 / 22	115	C 11 D	3 / 00	231-233	C 11 D	3 / 395	392-394	C 11 D	7 / 42
	C 10 M	159 / 08	543	C 08 F	8 / 32	116-117	A 61 Q	11 / 00	234	C 11 D	3 / 00		C 12 S	9 / 00
457	C 10 M	159 / 14		C 10 M	159 / 12	116-119	A 61 K	8 / 00	235	C 11 D	3 / 20	392-399	C 11 D	3 / 00
	C 10 M	159 / 22	544	C 07 D	233 / 02	118	A 61 Q	3 / 04	236	C 11 D	17 / 00	395-399	C 11 D	9 / 20
458	C 08 F	8 / 00		C 10 M	159 / 16	119	A 61 K	8 / 18	237	C 11 D	1 / 94	400-402	C 11 D	
	C 10 M	159 / 12	545	B 01 D	19 / 04				238	C 11 D	3 / 20	400	C 11 D	3 / 37
459	C 10 L	1 / 14		C 10 M	133 / 06	120	A 61 K	8 / 04	239	C 11 D	7 / 60	401	C 11 D	3 / 02
460	C 10 M	159 / 22	546-547	C 10 L	1 / 22				240	C 04 B	41 / 53	402	C 11 D	3 / 28
461	C 07 F	9 / 00	546	C 10 M	133 / 26	121	A 61 K	8 / 73	241-242	C 11 D	3 / 20	403-451	C 11 D	17 / 00
462	C 10 M	105 / 48	548	C 08 F	8 / 34	122-124	A 61 Q	5 / 02	243	C 11 D	3 / 37	405-437	C 11 D	17 / 08
463	C 10 M	105 / 34		C 10 M	159 / 12	124-125	A 61 K	8 / 73	244-245	C 11 D	3 / 20	445-451	C 11 D	17 / 06
464	C 10 L	1 / 22	549-551	C 10 L	1 / 22	125	C 11 D	1 / 94	245-274	C 23 G		452-453	C 11 D	11 / 02
465	C 07 C	69 / 34	549	C 07 C	205 / 22	126	A 61 K	8 / 65	246	C 11 D	7 / 60	454	C 11 D	13 / 20
466	C 10 L	1 / 18	550	C 08 K	5 / 29	127	C 11 D	17 / 00	247-248	C 02 F	5 / 08	455	C 11 D	17 / 00
467-468	C 10 M	145 / 16	552	C 10 M	115 / 08	128	C 11 D	1 / 83	249-253	C 02 F	5 / 10		C 11 D	17 / 02
468	C 08 F	8 / 14	553-554	C 10 L	1 / 22					C 23 F	14 / 02	456-457	C 11 D	11 / 00
469	C 10 M	145 / 14	553	C 10 M	133 / 16	129	A 61 K	8 / 36	250-253	C 02 F	5 / 08		C 11 D	13 / 12
470	C 10 L	1 / 22	555	C 10 M	133 / 16				254	C 11 D	3 / 02		C 11 D	13 / 26
471	C 10 M	149 / 04	556-557	C 10 M	133 / 12	130-131	A 61 K	8 / 00	255	C 23 G	5 / 028	458-460	C 11 D	13 / 00
	C 10 M	149 / 06	556	C 07 C	211 / 58				256	C 11 D	7 / 60		C 11 D	15 / 00
472	C 10 M	145 / 14	558-560	C 10 L	1 / 22				257	C 23 G	1 / 12	461	C 11 D	7 / 50
473	C 10 M	157 / 00	560	C 10 L	1 / 24				258-267	C 23 G	1 / 06		C 11 D	
474	C 10 M	173 / 02	561	C 07 C	43 / 20				268	C 11 D	7 / 60	462	C 11 D	3 / 382
475	C 10 L	1 / 18		C 09 K	15 / 24	132-133	C 11 D	3 / 00	269-270	C 23 G	1 / 08		C 11 D	3 / 384
476-477	C 10 L	1 / 22	562	C 10 M	133 / 08	132	C 11 D	3 / 37	271	C 23 G	1 / 02	463	C 11 D	3 / 38
478	C 10 L	1 / 18	563	C 10 M	133 / 12	133	C 11 D	17 / 00	272	C 23 G	1 / 28	464-474	C 11 D	
479	C 07 C	65 / 17		C 10 M	141 / 08	134-137	A 61 K	8 / 00	273	C 11 D	7 / 50	464	C 11 D	3 / 382
	C 10 M	159 / 22	564	C 07 F	9 / 50	134-138	C 11 D		274	C 11 D	3 / 37	465	C 11 D	3 / 20
480	C 10 M	131 / 12		C 10 M	169 / 04	136-137	A 61 Q	1 / 14	275-276	D 06 L		466	C 11 D	3 / 37
481	C 10 M	169 / 04	565	C 07 C	37 / 14	137	A 61 Q	19 / 00	275	C 11 D	7 / 60	467	C 07 F	9 / 09
482	C 10 L	1 / 10	566	C 08 G	8 / 28				276	C 11 D	3 / 37		C 11 D	1 / 34
483	C 10 L	1 / 24		C 10 L	1 / 24	138	C 11 D	3 / 20	277	C 11 D	17 / 04	468	A 61 K	8 / 30
484	C 07 C	69 / 75	567	C 10 M	135 / 00	139	C 11 D	3 / 12	278-280	C 11 D	3 / 00	469	C 11 D	3 / 36
485	C 10 M	105 / 38		C 10 M	135 / 22	140-146	A 61 K	8 / 02	278-284	D 06 L		470	C 11 D	1 / 66
486	C 10 M	101 / 04	568	C 10 M	105 / 72				278-292	C 11 D		471	C 11 D	3 / 22
	C 10 M	159 / 08		C 10 M	173 / 02	140-156	C 11 D	17 / 00	281	D 06 L	1 / 02	472	C 11 D	1 / 22
487	C 10 M	173 / 00	569	C 10 M	135 / 22	142-144	C 11 D	17 / 04	282	C 11 D	17 / 00	473-474	C 11 D	3 / 22
488	C 10 M	169 / 04		C 10 M	135 / 28	145	C 11 D	17 / 02	283	C 11 D	3 / 20	475-476	C 11 D	3 / 37
489-490	C 10 M	111 / 04	570	C 10 M	135 / 24	146	C 11 D	17 / 04	284	C 11 D	17 / 00	477-480	C 11 D	
489	C 10 M	111 / 02		C 10 M	135 / 30	147-159	A 61 Q	19 / 10	285-291	D 06 L	1 / 02	477	C 11 D	3 / 20
490	C 10 M	159 / 00	571	C 10 M	135 / 22	157	A 61 K	8 / 00		D 06 L	1 / 04	478-479	C 11 D	3 / 00
491	C 10 M	169 / 04	572-573	C 10 M	135 / 30				286	D 06 L	3 / 02	480	C 11 D	3 / 33
492	C 10 L	1 / 18	574	C 10 M	159 / 22	158-159	A 61 K	8 / 02	292	C 11 D	3 / 00	481-487	C 11 D	10 / 00
493	C 10 M	169 / 00	575-576	C 10 G	73 / 04	158	C 11 D	17 / 00		D 06 L			C 11 D	15 / 00
494	C 08 G	63 / 00	575	B 01 J	19 / 06	159	C 11 D	17 / 08	293-298	C 11 D	17 / 00		C 11 D	9 / 00
495	C 10 M	169 / 04	576	C 08 J	10 / 04	160-161	C 11 D		299-318	C 11 D	3 / 00	488-506	C 11 D	
496	C 10 M	105 / 36	577-578	C 10 L	1 / 18	160	C 11 D	3 / 00	302-318	C 11 D	7 / 18	488	C 11 D	1 / 00
497	C 10 M	107 / 34	577	C 10 M	171 / 00	161	C 11 D	3 / 20		C 11 D	7 / 54		C 11 D	1 / 04
	C 10 M	173 / 00	578	C 10 M	129 / 24	162	B 01 D	65 / 06		C 11 D	9 / 42	489	C 11 D	1 / 12
498	C 07 C	59 / 00	579-580	C 10 M	107 / 34	163-167	C 11 D			D 06 L		490	C 11 D	1 / 10
499	C 10 M	111 / 04	579	C 10 M	171 / 00	163	C 11 D	3 / 00	302	C 11 D	3 / 395	491	C 11 D	3 / 20
500	C 10 L	1 / 22	580-581	C 10 M	105 / 18	164	C 11 D	7 / 32	303	C 11 D	3 / 39	492	C 07 C	323 / 25
	C 10 M	133 / 08	582	C 10 M	169 / 04	165	C 11 D	11 / 00	304	C 11 D	17 / 00	493	C 11 D	1 / 75
501-502	C 10 M	129 / 76	583	B 21 B	45 / 02	166	C 11 D	3 / 20	305-306	C 11 D	3 / 386	494	C 11 D	1 / 28
502	C 10 M	131 / 00	584-585	C 09 K	15 / 08	167	C 11 D	11 / 00		C 12 S	11 / 00	495	C 11 D	1 / 22
503	C 10 M	169 / 04	584	C 10 L	1 / 18	168	G 11 B	3 / 58	307	C 11 D	3 / 39	496	C 11 D	1 / 52
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U.S. CLASS 510--Con.														
526	C 11 D	3/20		A 61 K	38/00		A 61 P	15/18		A 61 K	38/58		C 07 K	14/72
528	C 11 D	3/37		A 61 P	33/02	9.9-10.1	A 61 K	38/24		C 07 K	14/815	20.3	A 61 K	38/55
530	C 11 D	3/386	4.5	A 01 N	37/18		A 61 P	5/06	14.9	A 61 K	38/36		C 07 K	14/81
	C 11 D	7/42		A 61 K	38/00		C 07 K	14/59	15.1	A 61 K	38/00	20.4	A 61 K	38/48
531-534	C 11 D	3/00	4.6	A 61 P	33/00	10.2	A 61 K	38/00		A 61 P	39/06	20.5	A 61 K	38/55
	C 11 D	3/60	4.7	A 61 K	38/00		A 61 P	5/24	15.2	A 61 K	38/38	20.6	A 61 K	38/13
	C 11 D	7/00		A 61 P	15/14	10.3-10.4	A 61 K	38/09		A 61 K	47/48		A 61 K	38/00
	C 11 D	7/60	4.8-4.9	A 61 K	38/00		A 61 P	5/02		C 07 K	14/76		C 07 K	14/705
535-537	C 11 D	1/00		A 61 P	3/04	10.5	A 61 K	38/09	15.3	A 61 K	38/00		C 07 K	14/72
	C 11 D	10/00	5.1	A 61 K	38/27		A 61 P	15/08		A 61 P	7/08	20.7	A 61 K	38/00
				A 61 P	3/04		A 61 P	5/02	15.4	A 61 K	38/00		A 61 P	17/14
			5.2-5.3	A 61 K	38/22	10.6	A 61 K	38/09		A 61 P	13/12	20.8	A 61 K	38/00
				A 61 P	3/04		A 61 P	5/02	15.5	A 61 K	38/00		A 61 P	27/02
			5.4	A 61 K	38/00	10.7	A 61 K	38/34		C 07 K	14/785		A 61 P	9/10
			5.5	A 61 K	38/00		C 07 K	14/68	15.6	A 61 K	38/00	20.9	A 61 K	38/14
				A 61 P	3/02	10.8	A 61 K	38/35		A 61 P	9/00	21.1	A 61 K	38/12
			5.6-5.7	A 61 K	38/00		A 61 P	5/44	15.7	A 61 K	38/00	21.2-21.3	A 61 K	38/16
				A 61 P	3/02		C 07 K	14/695	15.8	A 61 P	9/12	21.4	A 61 K	38/10
				C 07 K	2/00	10.9	A 61 K	38/11		A 61 K	38/55		A 61 K	38/16
			5.8	A 61 K	38/22	11.1	A 61 K	38/31		A 61 P	9/12	21.5	A 61 K	38/10
			5.9	A 61 K	38/28		A 61 P	5/02	15.9	A 61 K	38/55	21.6-21.8	A 61 K	38/08
			6.1-6.3	C 07 K	14/62		C 07 K	14/655		A 61 P	9/12	21.9	A 61 K	38/06
			6.4	A 61 K	38/28	11.2	A 61 K	38/25		C 07 K	5/00		A 61 K	38/07
				A 61 K	33/30		C 07 K	14/60	16.1	A 61 K	38/00	21.91	A 61 K	38/05
				A 61 K	38/28	11.3-11.4	A 61 K	38/27		A 61 P	9/12	21.92	A 61 K	38/17
			6.5	A 61 K	38/28		A 61 P	5/06		C 07 K	14/575	22	A 61 K	31/70
				A 61 P	5/50	11.5	A 61 K	38/22	16.2	A 61 K	38/57	23-25	A 01 N	43/04
			6.6	A 61 K	38/28		C 07 K	14/575	16.3	A 61 P	9/12		A 61 K	31/70
			6.7	A 61 K	38/00	11.6	A 61 K	38/11		A 61 K	38/55	26	A 01 N	45/00
				A 61 K	38/28		A 61 P	5/10	16.4	C 07 K	7/14	27-43	A 01 N	43/04
				A 61 P	5/50	11.7	A 61 K	38/26		A 61 K	38/00		A 61 K	31/70
			6.8	A 61 K	38/00		A 61 P	3/10	16.5	A 61 P	9/00	44A	C 12 N	15/11
				A 61 P	3/08		A 61 P	7/12	16.6	A 61 K	38/00	44R	A 61 K	48/00
			6.9	A 61 K	38/00	11.8	C 07 K	14/605		A 61 P	43/00	45-52	A 01 N	43/04
				A 61 K	38/28		A 61 K	38/29	16.6	A 61 K	38/00		A 61 K	31/70
				A 61 P	3/10		A 61 P	5/18		A 61 P	19/02	53-54	A 01 N	43/04
				A 61 P	7/12	11.9	C 07 K	14/635		A 61 P	29/00		A 61 K	31/715
			7.1	A 61 K	38/31		A 61 K	38/23	16.7	A 61 K	38/00	55	A 01 N	43/04
				A 61 P	3/10		A 61 P	5/22	16.8	A 61 P	19/08	56	A 61 K	31/727
				A 61 P	7/12	12.1	C 07 K	14/585		A 61 K	38/00	57-61	A 01 N	43/04
			7.2	A 61 K	38/26		A 61 K	38/00	16.9	A 61 P	19/02		A 61 K	31/715
				A 61 P	3/10		A 61 P	13/06		A 61 K	38/00	62	A 01 N	43/04
				A 61 P	7/12	12.2	A 61 K	21/02		A 61 P	19/10		A 61 K	31/70
				A 61 P	7/12		A 61 K	38/00	17.1	A 61 K	38/00	63	A 01 N	55/00
			7.3	C 07 K	14/605		A 61 P	29/00		A 61 P	19/00		A 61 K	31/695
				A 61 K	38/00	12.3	A 61 K	38/22	17.2	A 61 K	38/39	64	A 01 N	55/08
				A 61 P	3/10		C 07 K	14/595		A 61 K	47/48		A 61 K	31/69
			7.4	A 61 K	38/00	12.4	A 61 K	38/22	17.3-17.4	A 61 K	38/00	65-74	A 01 N	65/00
				A 61 P	3/06	12.5	C 07 K	14/58		A 61 K	38/16	75	A 01 N	57/00
				A 61 K	38/00		A 61 K	38/22	17.5	A 61 K	38/00		A 61 K	31/66
			7.5	A 61 K	38/00		C 07 K	14/575		A 61 P	25/18	76-78	A 01 N	57/26
				C 07 K	14/47	12.6	A 61 K	38/22		A 61 P	25/22		A 61 K	31/685
			7.6	A 61 K	38/18		C 07 K	14/595	17.6	A 61 K	38/00	79-94	A 01 N	57/00
				C 07 K	14/475	12.7	A 61 K	38/22		A 61 P	25/24		A 61 K	31/675
			7.7	A 61 K	38/18		C 07 K	14/64	17.7	A 61 K	38/00	95-98	A 01 N	57/00
				A 61 P	7/06	12.8	A 61 K	38/22		A 61 P	25/00		A 61 K	31/67
			7.8	A 01 N	14/505		C 07 K	14/645		A 61 P	3/04	99-101	A 01 N	57/00
				A 61 K	38/40	12.9-13.1	A 61 K	38/22	17.8	A 61 K	38/00		A 61 K	31/665
				A 61 P	7/06		C 07 K	14/575		A 61 P	25/28	102-108	A 01 N	57/00
				C 07 K	14/79	13.2	A 61 K	38/00	17.9	A 61 K	38/00		A 61 K	31/66
			7.9	A 61 K	38/00		A 61 P	1/04		C 07 K	14/47	109	A 01 N	57/10
				A 61 K	38/04	13.3	A 61 K	38/00	18.1	A 61 K	38/00		A 61 K	31/66
			8.1	A 61 P	7/06		A 61 P	35/00		C 07 K	14/575	110-111	A 01 N	57/36
				A 61 K	38/18		C 07 K	14/515	18.2	A 61 K	38/00		A 61 K	31/66
			8.2	A 61 K	38/18	13.4	A 61 K	38/41		A 61 P	25/02	112-136	A 01 N	57/00
				C 07 K	14/49		C 07 K	14/795	18.3	A 61 K	38/00		A 61 K	31/66
			8.3	A 61 K	38/18	13.5	A 61 K	38/00		A 61 P	23/00	137-138	A 01 N	57/26
				A 61 K	38/18		A 61 P	7/00	18.4	A 61 K	38/00		A 61 K	31/66
			8.4	C 07 K	14/48	13.6	A 61 K	38/36		A 61 P	25/04	139	A 01 N	57/34
			8.5-8.6	A 61 K	38/30		A 61 P	7/04	18.5	A 61 K	38/00		A 61 K	31/66
				C 07 K	14/65		C 07 K	14/475		C 07 K	14/70	140-142	A 01 N	57/18
			8.7	A 61 K	38/00		C 07 K	14/75	18.6	A 61 K	38/00		A 61 K	31/66
				A 61 K	38/30	13.7	A 61 K	38/36		A 61 P	17/00	143-148	A 01 N	57/10
				C 07 K	14/65		A 61 P	7/02	18.7	A 61 K	38/00		A 61 K	31/66
			8.8	A 61 K	38/18		C 07 K	14/745		A 61 P	17/00	149	A 01 N	57/00
				C 07 K	14/51	13.8	A 61 K	38/36		A 61 P	29/00		A 61 K	31/655
			8.9	A 61 K	38/18	13.9	A 61 K	38/36	18.8	A 61 K	38/00	150-151	A 01 N	33/26
				C 07 K	14/495		C 07 K	14/745		A 61 P	17/00		A 61 K	31/655
			9.1	A 61 K	38/18	14.1	A 61 K	38/37	18.9	A 61 K	38/00	152-154	A 01 N	37/18
				C 07 K	14/50		C 07 K	14/755		A 61 P	43/00		A 61 K	31/65
			9.2	A 61 K	38/18	14.2	A 61 K	38/57	19.1	A 61 K	38/00	155	A 01 N	51/00
			9.3	A 01 N	38/39	14.3	A 61 K	38/43		C 07 K	14/705		A 61 K	31/63
				A 61 K	47/48		A 61 K	38/57	19.2-19.5	A 61 K	38/00	156-158	A 01 N	51/00
			9.4	A 61 K	38/00		C 07 K	14/745		A 61 P	35/00		A 61 K	31/655
				A 61 P	17/02	14.4-14.5	A 61 K	38/57	19.6	A 61 K	38/00	159-160	A 01 N	37/36
			9.5	A 61 K	38/22		C 07 K	14/745		A 61 P	35/02		A 61 K	31/60
				C 07 K	14/475	14.6	A 61 K	38/43	19.7	A 61 K	38/10	161	A 01 N	43/00
			9.6	A 61 K	38/22		A 61 K	38/49		A 61 P	35/00	162-164	A 01 N	37/36
				C 07 K	14/485		A 61 K	38/57	19.8	A 61 K	38/00	165	A 01 N	37/36
			9.7	A 61 K	38/22		C 07 K	14/745		A 61 P	35/04		A 61 K	31/60
				C 07 K	14/575	14.7	A 61 K	38/57	19.9	A 61 K	38/12	166	A 01 N	37/36
			9.8	A 61 K	38/00		C 07 K	14/745		A 61 P	35/00	167	A 01 N	45/00
				A 61 P	15/08		A 61 P	15/08	20.1-20.2	A 61 K	38/48		A 61 K	31/59
				A 61 P	15/16	14.8	A 61 K	38/00		A 61 K	38/55	168	A 01 N	45/00