

**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
<b>U.S. CLASS 152--Con.</b>														
525	B 60 C	13 / 00		B 65 C		95	B 29 B	17 / 00		G 03 D	15 / 04		B 31 F	
	B 60 C	5 / 00	61	A 41 G	1 / 00		B 29 C	73 / 00	158	B 65 H	69 / 02	205-206	B 31 F	1 / 22
526	B 60 C	9 / 00		A 41 G			B 32 B		159	B 31 F	5 / 00	207	B 31 F	1 / 22
527	B 60 C	9 / 00		B 44 C			B 60 C	11 / 00		G 03 D	15 / 04		B 31 F	1 / 32
	D 02 G	3 / 48		B 44 D		96	B 29 C	73 / 00	160	A 61 F	13 / 15	208	B 31 F	1 / 22
528-536	B 60 C	9 / 00	62	B 29 C	65 / 00		B 29 D	30 / 54		B 29 C	65 / 00	209	B 29 C	59 / 04
537	B 60 C	1 / 00		B 32 B	37 / 00		B 32 B			B 32 B	37 / 00		B 31 F	1 / 07
	B 60 C	9 / 00		B 32 B	38 / 00		B 60 C	11 / 00		C 09 J			B 31 F	
538	B 60 C	9 / 00		B 43 K		97	B 29 C	73 / 00	161	A 61 F	13 / 15	210	B 31 F	1 / 20
539-540	B 60 C	15 / 00		B 43 L		98	B 29 C	73 / 00		B 32 B		211	B 31 F	1 / 00
541-542	B 60 C	15 / 06		B 44 D	2 / 00		B 32 B	43 / 00		B 65 H	81 / 00	212	B 29 C	51 / 16
543	B 60 C	15 / 06	62.2	A 61 F	13 / 15	99-100	B 32 B	17 / 00	162	B 29 C	53 / 80		B 65 C	
	B 60 C	5 / 16		B 27 N	3 / 00		B 32 B	17 / 10		B 31 C		213	B 29 D	22 / 00
544	B 60 C	15 / 00		B 31 D			C 03 C	27 / 00	163	A 61 F	13 / 15		B 65 C	
	B 60 C	15 / 024		B 32 B	17 / 00		G 02 B			B 29 C	65 / 00	214	B 29 D	7 / 00
545	B 60 C	15 / 00		D 21 J		101-107	G 02 C	7 / 00		B 32 B	37 / 00		B 32 B	38 / 18
	B 60 C	15 / 05	62.4-62.6	B 27 N	3 / 00		B 29 C	65 / 00	164-165	C 09 J		215	B 65 C	3 / 16
546	B 60 C	13 / 00		B 31 D			B 32 B	17 / 00		B 29 C	65 / 00		B 65 C	
	B 60 C	15 / 00		B 32 B	17 / 00		B 32 B	37 / 00	166	B 29 C	70 / 52	216	B 32 B	3 / 04
	B 60 C	15 / 06		D 04 H	13 / 00		C 03 C	27 / 00		B 32 B		217-218	B 29 C	53 / 00
547	B 60 C	1 / 00		D 21 J		108	B 60 J	1 / 00		B 32 B		219-220	B 31 F	
	B 60 C	15 / 00	62.8	B 27 N	3 / 00		E 06 B	3 / 00	167	D 04 H	3 / 16		B 44 C	3 / 08
548	B 60 C	9 / 02		B 31 D			E 06 B	5 / 00	168	A 43 D	43 / 06		B 44 C	5 / 04
549	B 60 C	9 / 00		B 32 B	17 / 00		E 06 B	7 / 00		D 04 H		221	B 31 F	
550	B 60 C	9 / 00		B 32 B	5 / 26	109	C 03 C	27 / 00	169	B 29 C	53 / 80		B 60 J	10 / 00
	B 60 C	9 / 02		D 21 J			E 06 B	3 / 24		B 31 C		222	B 27 D	1 / 08
551	B 60 C	15 / 00	63	B 44 C	3 / 12	110.1-111	B 29 C	35 / 00		B 65 H	81 / 00		B 31 F	
	B 60 C	9 / 00		B 44 C		112-113	B 29 C		170	B 29 D	22 / 00		B 32 B	27 / 00
	B 60 C	9 / 02	64	B 29 C	65 / 00		B 29 D	30 / 02		B 31 C		223	B 29 C	53 / 06
552-554	B 60 C	15 / 00		B 29 C	65 / 02	114	B 29 D	30 / 66		B 65 H	81 / 00		B 31 F	
	B 60 C	9 / 00		B 32 B	37 / 00	115	B 29 C	73 / 16	171	B 29 C	53 / 58		B 29 C	
555	B 60 C	13 / 00		B 32 B	38 / 00	116	B 29 B	17 / 00		B 31 C		224	B 31 C	51 / 14
	B 60 C	17 / 00	65	E 06 B	9 / 26	117	B 29 D	30 / 00		B 65 H	81 / 00		B 31 F	
	B 60 C	9 / 00	66	A 41 H	37 / 00	118	B 29 C	69 / 00	172	B 29 C	70 / 86	226-227	A 61 F	13 / 15
556-557	B 60 C	9 / 00		A 44 B	19 / 00		B 29 C			B 31 C			B 31 F	
558	B 60 C	9 / 04	67	B 44 C			B 29 D	22 / 00		B 65 H	81 / 00	228-229	B 29 C	65 / 00
559	B 60 C	9 / 00		B 44 D		119	B 29 B	15 / 02	173	B 29 C	53 / 58		B 29 C	
560	B 60 C	9 / 04		B 44 F	1 / 00		B 29 C			B 31 C			B 32 B	37 / 00
	B 60 C	9 / 08		C 09 K	11 / 00	120-121	B 60 C	29 / 00		B 65 H	81 / 00	230	B 44 C	1 / 165
561	B 60 C	9 / 04		H 01 J	9 / 227	122	B 29 C	65 / 00	174	B 29 C	69 / 00	231	B 29 B	
	B 60 C	9 / 09	68	C 14 B	1 / 02	123	B 29 D	30 / 00		B 31 C			D 44 C	1 / 17
562-563	B 60 C	9 / 00		C 14 B	15 / 00	124	B 60 C	9 / 14		B 65 H	81 / 00		D 06 N	7 / 00
564-565	B 60 C	1 / 00	69	B 65 B	7 / 00		B 60 C	9 / 16	175	B 29 C	53 / 80	232	B 29 C	37 / 00
	B 60 C	9 / 02	70	A 41 B	13 / 04	125	B 29 C			B 31 C			B 44 C	
				A 41 H			B 29 D	30 / 06	176-179	B 65 H	81 / 00	233-235	B 44 C	1 / 17
				B 32 B	3 / 00	126-127	B 29 D	30 / 58		B 32 B	29 / 02		B 44 C	
				B 65 B	11 / 00	128.1-130.7	B 29 D	30 / 08		B 32 B	5 / 00	236-237	B 44 C	1 / 175
			71	E 04 B	2 / 00	131-132	B 29 D	30 / 32	180-181	D 04 H	3 / 08		B 44 C	
				E 04 F	13 / 00	133-134	B 29 D	30 / 16	182	B 29 C	65 / 00	238	B 44 C	1 / 17
			72	A 46 D	1 / 00	135	B 29 D	30 / 32		B 32 B	37 / 00		B 44 C	
				B 32 B	5 / 00	136	B 29 D	30 / 48		C 09 J			B 65 C	9 / 18
				D 05 C	15 / 00	137-138	F 16 G	1 / 00	183	B 31 F	1 / 12	239-241	B 44 C	1 / 17
			73.1-73.2	B 29 C	65 / 00	139-142	F 16 G	5 / 00	184	B 31 C	1 / 00		B 44 C	
				B 29 C	65 / 08	143	B 29 C	53 / 58		B 31 C		242	B 29 B	
				B 32 B	37 / 00		B 31 C			B 65 H	81 / 00		B 32 B	27 / 00
			73.3	B 29 C	65 / 00	144	B 29 D	23 / 18	185	B 31 C			B 32 B	37 / 24
				B 32 B	37 / 00		B 31 C			B 65 H	81 / 00	243	B 29 B	
				B 32 B	38 / 00	145	A 63 B	39 / 00		H 01 F	41 / 12		B 29 C	47 / 06
			73.4	B 29 C	65 / 00		A 63 B	41 / 00	186	B 29 D	22 / 00	244.11-246	B 29 C	47 / 00
				B 29 C	65 / 08		B 29 C	65 / 00		B 31 C		247	B 29 C	65 / 00
				B 32 B	37 / 00		B 29 D			B 65 H	81 / 00		B 32 B	37 / 00
			73.5	B 29 C	65 / 06		B 32 B	37 / 00	187-188	B 29 C	63 / 10		B 32 B	38 / 10
			73.6-74	B 29 C	65 / 00	146	A 63 B	39 / 00		B 31 C			C 09 J	
				B 32 B	37 / 00		A 63 B	41 / 00		B 65 H	81 / 00	248	B 29 C	65 / 00
			75	B 29 C	65 / 00	147	A 63 B	39 / 00	189	B 29 C	53 / 58		B 31 D	1 / 02
				B 32 B	37 / 00		A 63 B	41 / 00		B 31 C			B 32 B	37 / 00
				G 01 M	1 / 00		B 29 C	65 / 00		B 65 H	81 / 00		B 32 B	38 / 10
			76	D 21 H	23 / 00		B 29 D		190	B 31 C	3 / 00		C 09 J	
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			77-79	B 29 C	65 / 00	148	B 32 B			B 65 H	81 / 00		B 32 B	37 / 00
				B 32 B	3 / 00		D 03 D		191	B 29 C	70 / 34		B 32 B	38 / 10
				B 32 B	37 / 00		D 04 H	13 / 00		B 31 C			C 09 J	
				B 32 B	5 / 00	149	B 29 C	47 / 02		B 65 H	81 / 00	250-275.7	B 29 C	65 / 00
				B 32 B	5 / 18		B 32 B		192	B 29 C	65 / 00		B 32 B	37 / 00
			80	B 29 C	65 / 00		D 03 D			B 31 C			B 32 B	38 / 04
			81	A 63 B	37 / 02		F 16 L	11 / 08		B 65 H	81 / 00	276	A 61 F	13 / 15
				A 63 B	39 / 00	150	C 25 D		193	B 29 C	69 / 00		B 29 C	65 / 00
				B 32 B	1 / 06		H 05 K	3 / 46		B 31 C			B 32 B	37 / 00
			82	B 29 C	65 / 00	151	B 41 J	2 / 16		B 65 H	81 / 00		C 09 J	
				B 29 C	65 / 02		C 25 D		194	B 31 C		277	B 29 C	65 / 00
				B 32 B	37 / 00	152	B 29 C	65 / 00		B 65 H	81 / 00		B 32 B	37 / 00
53-56	H 01 B	13 / 06		B 44 D	5 / 00		B 32 B	37 / 00		F 16 J	15 / 20		B 32 B	38 / 14
	H 01 B	13 / 26	83-87	B 29 C	65 / 00		C 09 J		195	B 29 C	53 / 78		B 41 M	
	H 01 B	13 / 26		B 32 B	37 / 00	153-154	B 29 C	65 / 00		B 31 C		278	B 05 B	
57	A 01 N	1 / 00		D 03 D	47 / 50		B 32 B	37 / 00		B 65 H	81 / 00		B 29 C	65 / 00
	A 01 N	3 / 00	88	D 06 C	25 / 00		B 32 B	38 / 10	196	B 29 C	65 / 00		B 32 B	27 / 00
58	B 44 C			C 03 B	29 / 00	155	B 29 C	53 / 82		B 31 F			B 32 B	37 / 00
	G 03 F	7 / 00	89.11-89.19	C 04 B	33 / 34		B 29 C	65 / 00						

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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
<b>U.S. CLASS 156--Con.</b>														
280	B 32 B	37 / 00		C 09 J	201 / 00		B 32 B		466	B 29 C	65 / 00		B 65 H	
281-282	B 29 C	65 / 00		C 09 J	4 / 00		E 04 D	15 / 06		B 29 D	23 / 00	570-573	B 65 C	9 / 08
	B 32 B	37 / 00	345.1-345.55	C 23 F	1 / 00	391	B 32 B			B 31 F		574-577	B 44 C	7 / 00
	B 32 B	38 / 00		H 01 L	21 / 306		B 65 C	9 / 26	467	A 41 F	9 / 00		E 04 D	15 / 00
	C 09 J		346-348	B 28 B	19 / 00	392	B 32 B			B 31 F		578	B 65 C	11 / 04
283	B 29 C	65 / 00		B 28 B			B 65 H	81 / 00	468	B 31 F		579	B 29 C	65 / 00
	B 32 B	17 / 10		B 32 B	13 / 00		B 65 H	81 / 08		B 65 B	51 / 06		B 32 B	37 / 00
	B 32 B	37 / 00	349	B 29 C	65 / 00	393	B 29 C	47 / 02	469-473	B 31 F	1 / 00		B 65 C	
	B 32 B	38 / 00		B 32 B	37 / 00		B 32 B		474	B 31 F	1 / 20		C 09 J	
	C 09 J			G 05 G	15 / 00		D 03 D			B 31 F	1 / 32	580	B 23 K	37 / 00
284	B 27 D	1 / 04	350-352	G 05 G	15 / 00	394.1-396	B 60 C	9 / 00	475	B 29 C	63 / 04		B 29 C	65 / 00
	B 29 C	65 / 00	353-355	B 26 D	5 / 00	397	B 29 D	30 / 08		B 65 C			B 30 B	
	B 32 B	37 / 00		B 29 C	65 / 00	398-403	B 29 D	30 / 18	476	B 32 B		580.1-582	B 32 B	37 / 00
	B 32 B	38 / 00		B 32 B	37 / 00	404	B 29 C			B 65 C	9 / 36		B 29 C	65 / 00
	C 09 J			B 32 B	41 / 00		B 29 D	30 / 02	477.1	B 42 C	9 / 00		B 29 C	65 / 08
285-287	B 29 C	65 / 00		B 65 C	9 / 40	405.1-413	B 29 D	30 / 08		B 65 C	3 / 00		B 32 B	37 / 00
288-289	B 29 C	65 / 00		G 05 G	15 / 00	414-419	B 29 D	30 / 24	478	B 29 C	63 / 00	583.1-583.91	B 30 B	15 / 34
	B 32 B	37 / 00	356	B 05 B		420	B 29 D	30 / 16		B 32 B	3 / 04		B 30 B	5 / 02
	C 09 J			B 05 C	5 / 02	421-421.8	B 29 D	30 / 00		B 65 C			B 30 B	5 / 04
290	B 29 C	65 / 00	357	B 05 B		422	B 29 D	30 / 48	479-480	B 32 B	3 / 04	598	B 29 C	65 / 00
	B 32 B	37 / 00		B 65 C	9 / 22	423	B 29 C	65 / 78	481	B 32 B			B 32 B	37 / 00
291	B 32 B	7 / 14	358-360	B 29 C	65 / 00		B 29 C			B 65 C	9 / 36	701-767	B 29 C	63 / 00
292-294	B 29 C	65 / 00		B 32 B	37 / 00	424	H 01 J	9 / 34	482-485	B 65 C	1 / 04			
	B 32 B	37 / 00		B 32 B	41 / 00		H 01 K			B 65 C				
295	B 29 C	65 / 00		B 65 C	9 / 40	425	B 29 C	53 / 82	486	B 65 C	51 / 06			
	B 29 C	65 / 48		G 05 G	15 / 00		B 31 C			B 65 B				
	B 32 B	37 / 00	361	B 29 C	65 / 00	426	B 65 H	81 / 00	487	B 65 C	1 / 04			
	C 09 J			B 32 B	37 / 00		B 31 C		488-489	B 65 C	3 / 20			
296	B 29 C	65 / 00		B 32 B	41 / 00	427	B 65 H	81 / 00		B 65 C				
	B 32 B			B 65 C	9 / 40		D 04 H	3 / 04	490	B 65 C	1 / 04			
297	B 29 C	65 / 00		B 65 H	26 / 00	428	B 31 C			B 65 C				
	B 32 B	37 / 00		G 05 G	15 / 00	428-429	B 65 H	81 / 00	491	B 65 C	3 / 10			
	B 65 C		362-364	B 29 C	65 / 00		B 29 C	53 / 82	492	B 65 C	3 / 20			
	H 05 K	13 / 04		B 32 B	37 / 00	430	B 31 C		493	B 65 C	9 / 36			
298	B 29 C	65 / 00		B 32 B	41 / 00		B 65 H	81 / 00	494-496	B 29 C	65 / 00			
	B 32 B	37 / 00		B 65 C	9 / 40	431	B 31 C			B 32 B	37 / 00			
299	B 29 C	65 / 00		G 05 G	15 / 00	432	B 65 H	81 / 00	497-499	B 29 C	65 / 00			
	B 32 B	37 / 00		B 29 C	65 / 00		B 29 C	53 / 58		B 29 C	65 / 10			
	B 65 C		365	B 29 C	65 / 78	433	B 29 C	70 / 34		B 32 B	37 / 00			
	B 65 C			B 29 C	65 / 00		B 65 H	81 / 00	500	C 09 J				
	E 04 F	13 / 08		B 32 B	37 / 00	434	D 04 H			B 29 B	47 / 06			
300-302	B 29 C	65 / 00		B 32 B	41 / 02		B 32 B		501	B 29 B	15 / 00			
	B 32 B	37 / 00		B 65 C	9 / 40		H 01 B	13 / 016	502	B 31 F	5 / 00			
303	B 29 C	65 / 00		G 05 B		435	D 04 H	11 / 08		B 65 H	19 / 00			
	B 32 B	37 / 00		G 05 G	15 / 00	436	A 61 F	13 / 15		B 65 H	69 / 02			
	B 65 C		366	B 29 C	65 / 00		B 65 H			G 03 D	15 / 04			
	B 29 C			B 32 B	41 / 02	437	D 04 H		503	B 29 C	65 / 00			
303.1	B 29 C			B 32 B	37 / 00		B 29 C	70 / 50		B 29 C				
	F 02 F	1 / 06		B 65 C	9 / 40	438	B 65 H		504	B 65 H	19 / 00			
304.1-304.7	B 29 C	65 / 00		G 05 G	15 / 00		D 04 H		505-506	B 31 F	5 / 00			
305-306.3	C 09 J	5 / 00		B 29 C	65 / 00	439	H 01 B	13 / 10	507-509	G 03 D	15 / 04			
306.6-306.9	C 09 J	5 / 10		B 32 B	37 / 00		A 61 F	13 / 15	510-527	B 29 C	65 / 00			
307.1	B 29 C	65 / 00		B 32 B	41 / 02		B 65 H			B 32 B	37 / 00			
	B 32 B	37 / 00	367	B 29 D	30 / 28		D 04 H			B 32 B	38 / 04			
	C 08 J	5 / 00		B 32 B	37 / 00	440	B 65 H			B 32 B	38 / 10			
307.3-307.5	C 09 J	5 / 02		B 32 B	41 / 02		D 04 H	3 / 04		B 65 C				
307.7-308.4	B 29 C	65 / 00		B 65 C	9 / 40	441-442.3	D 04 H		528	B 43 M				
	B 32 B	37 / 00		G 05 B		442.4	B 43 M	5 / 02	529-535	B 65 C	9 / 18			
	C 08 J	5 / 00		G 05 G	15 / 00		B 43 M			B 29 C	65 / 00			
308.6-309.3	C 09 J	5 / 02	368	B 29 C	65 / 00		B 29 C	65 / 00		B 32 B	37 / 00			
309.6-309.9	B 29 C	65 / 00		B 32 B	37 / 00	443	A 61 F			B 32 B	38 / 04			
	B 32 B	37 / 00		B 65 C	9 / 40		B 65 H			B 32 B	38 / 10			
	C 08 J	5 / 00		G 05 B		444	D 04 H			B 65 C				
310	B 32 B	7 / 00		G 05 G	15 / 00		D 04 H	3 / 04		B 43 M				
311-312	C 09 J	5 / 00		B 29 C	65 / 00	445	A 63 B			B 65 C	9 / 18			
313	C 09 J	7 / 00	378	B 29 C	65 / 78		B 29 C	63 / 00	537-539	B 29 C	65 / 00			
314-319	C 09 J	5 / 04		B 32 B	37 / 00		B 65 C	3 / 12		B 32 B	37 / 00			
320	B 65 C	11 / 06		B 32 B	41 / 00	446	B 65 C	3 / 16	540	B 44 C				
	B 65 C	9 / 25		B 32 B	37 / 00		B 65 C	9 / 04		B 65 H	37 / 00			
	C 09 J	5 / 06		B 65 C	9 / 00	447	B 65 C	9 / 06	541-542	B 44 C				
321	B 29 C	67 / 00		G 01 D		448-456	B 65 C	9 / 04		B 65 C	9 / 18			
	C 09 J	5 / 06		B 29 C	65 / 00	457	B 65 C	3 / 12	543-553	B 29 C	65 / 00			
322-324	B 65 C	9 / 25		B 32 B	37 / 00		B 65 C	3 / 16		B 32 B	37 / 00			
	C 09 J	5 / 00		B 32 B	41 / 00	449	A 63 B			B 32 B	37 / 00			
324.4	C 09 J	5 / 02		B 65 C	9 / 00	450	B 29 C	63 / 00	544-555	B 29 C	65 / 00			
325	C 04 B	37 / 00	379.6-380.9	B 27 G	11 / 02	451	B 65 C	3 / 12		B 44 C				
	C 09 J			B 29 C	65 / 02	452	B 65 C	9 / 04		B 65 H	37 / 00			
	B 41 J	2 / 16		B 31 F	5 / 04	453	B 65 C	9 / 04	541-542	B 44 C				
	C 09 J			B 32 B	37 / 00	454	B 65 C	3 / 12		B 65 C	9 / 18			
327	B 32 B	7 / 12	381-382	B 29 C	65 / 00	455	B 65 C	3 / 16	543-553	B 29 C	65 / 00			
	C 09 J			B 32 B	37 / 00		B 65 C	3 / 16		B 32 B	37 / 00			
328	C 09 J	101 / 00	383	A 61 F	13 / 15		B 65 C	9 / 04		B 32 B	37 / 00			
	C 09 J	201 / 00		B 32 B		458	B 65 C	9 / 04	554-555	B 29 C	65 / 00			
	C 09 J	4 / 00	384-385	B 32 B		459	B 31 F	1 / 00		B 31 F	5 / 00			
329	C 09 J	7 / 02		B 41 M		460	B 29 D	29 / 06	556	B 29 C	65 / 00			
	C 09 J			B 65 C	11 / 02		B 29 D	30 / 48		B 31 F	5 / 00			
330	C 09 J	163 / 00	386	B 32 B		461	B 31 F	1 / 00		B 32 B	37 / 00			
	C 09 J			B 41 M		462	B 31 F	1 / 20		B 65 H	29 / 00			
330.9-331.9	C 09 J	101 / 00		B 44 B	5 / 02	463	B 31 F		557-563	B 29 C	65 / 00			
	C 0													