

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 8-Con.														
114.5	D 06 Q	1 / 02		D 06 M		429	D 06 P	3 / 30	648	C 09 B			A 43 D	21 / 00
	D 06 Q		137	C 11 D	3 / 00	432	D 06 P	3 / 14		D 06 L	3 / 12	7.5	A 43 D	113 / 00
114.6-115	D 06 Q	1 / 02		D 06 F			D 06 P	3 / 30	649	C 09 B	51 / 00		A 43 D	43 / 00
115.51	C 11 D	3 / 00		D 06 L		433	D 06 P	1 / 649		C 09 B		7.6	A 43 D	75 / 00
	D 06 M		137.5	C 11 D	11 / 00	435	A 45 D	19 / 02	650	C 09 B	67 / 28	7.7	A 43 D	113 / 00
115.52	C 08 J	7 / 18		D 06 F			D 06 P	1 / 649	651	C 09 B	9 / 00		A 43 D	43 / 00
	D 06 M			D 06 L		436-437	D 06 P	3 / 32	652	C 09 B	49 / 00	7.8	A 43 D	43 / 00
115.53	C 08 F	283 / 00	138	D 06 F		438-439	C 09 B	61 / 00	653	C 09 B	7 / 00	7.9	A 43 D	15 / 00
	D 06 M			D 06 L	1 / 14	440	C 09 B	67 / 34	654	C 09 B	44 / 00	8.1	A 43 D	21 / 12
115.54	D 01 F	9 / 22		D 06 L		441-442	D 06 P	5 / 02	655-657	C 09 B	23 / 14	8.2-8.5	A 43 D	21 / 00
	D 06 M		139-139.1	D 01 C	3 / 00	443	D 06 M	11 / 00		C 09 B			A 43 D	23 / 00
	D 06 M			D 06 F			D 06 M	13 / 00	658	C 09 B	5 / 14	8.6	A 43 D	21 / 00
	D 06 P	3 / 79		D 06 L			D 06 M	15 / 00		C 09 B			A 43 D	23 / 00
115.56	D 06 M	13 / 127	140	D 01 C	5 / 00	444	D 06 P	5 / 20	659	C 09 B	23 / 00		A 43 D	75 / 00
	D 06 M			D 06 F		445	D 06 P	5 / 00	661	C 09 B	47 / 04	8.7-9	A 43 D	21 / 00
115.57	C 08 L	23 / 32		D 06 L		446-456	D 06 P	5 / 12	662	C 09 B	29 / 08		A 43 D	23 / 00
	D 06 M		141	B 03 B	9 / 06	457-464	D 06 P	5 / 15		C 09 B		9.1	A 43 D	21 / 00
115.58-115.6	D 06 M	15 / 423		D 06 F		465	D 06 P	1 / 22	663	C 07 D	231 / 56		A 43 D	23 / 00
	D 06 M			D 06 L		466	D 06 P	1 / 02		C 09 B			A 43 D	43 / 00
115.61	D 06 M	13 / 11	142	D 06 F		467-472	D 06 P	5 / 00	664-665	C 09 B		10-10.1	A 43 D	21 / 00
	D 06 M			D 06 L	1 / 04		D 06 P			D 06 P	1 / 12		A 43 D	23 / 00
115.62	D 06 M	14 / 14		D 06 L		473	D 06 P	1 / 00	666	C 09 B		10.2	A 43 D	75 / 00
	D 06 M		147-148	A 01 H	5 / 02		D 06 P			D 06 P	3 / 68	10.21-10.5	A 43 D	21 / 00
115.63	D 06 M	13 / 285		D 06 B		474	D 06 P	1 / 673	667	C 09 B			A 43 D	23 / 00
	D 06 M		149	D 06 B	11 / 00		D 06 P			D 06 P	3 / 44	10.6-11.2	A 43 D	75 / 00
115.64	C 08 J	7 / 12		D 06 B		475	D 06 P	1 / 94	668	C 09 B	35 / 56	11.3-12.5	A 43 D	21 / 00
	D 06 M		149.1	D 06 B	19 / 00		D 06 P			C 09 B			A 43 D	23 / 00
115.65	D 06 M			D 06 B		476	D 06 P	5 / 20	669	C 09 B	35 / 04	13.1	A 43 D	75 / 00
	D 06 P	1 / 673	149.2	D 06 B	1 / 02		D 06 P			C 09 B		13.2	A 43 D	43 / 00
115.66	D 06 M			D 06 B		477	D 06 P	1 / 96	670	C 09 B	29 / 00	14.2-14.4	A 43 D	21 / 00
	D 06 P	1 / 642	149.3	D 06 B	19 / 00		D 06 P			C 09 B		14.5	A 43 D	23 / 00
115.67	D 06 M	13 / 395		D 06 B		478-487	D 06 P	5 / 00	671	C 09 B	39 / 00	15	A 43 D	3 / 12
	D 06 M		150	D 06 B		488	D 04 H	11 / 00		C 09 B		15.1	A 43 D	3 / 10
115.68	C 08 G	59 / 32		D 06 F	95 / 00		D 06 P		672	C 09 B	69 / 08	16	A 43 D	61 / 00
	D 06 M		150.5	C 14 C	15 / 00	489	D 06 P	7 / 00	673	C 09 B	31 / 02	16.1	A 43 D	63 / 00
115.69	D 06 M	11 / 38		D 06 B		490	D 06 P	5 / 00		C 09 B			A 43 D	89 / 00
	D 06 M		151	D 06 B	3 / 20	491	D 06 P	5 / 00	674	C 09 B		16.2	A 43 D	25 / 12
115.7	D 06 M	11 / 00		D 06 B		492-493	D 06 P	7 / 00		D 06 P	3 / 79	16.3-16.5	A 43 D	63 / 00
	D 06 M	13 / 00	151.1	D 01 D	10 / 04	494	D 06 M	23 / 00	675-679	C 09 B	1 / 00		A 43 D	89 / 00
	D 06 M	15 / 00		D 06 B	3 / 26		D 06 P			C 09 B	3 / 00	16.6-16.7	A 43 D	27 / 06
116.1	D 06 M	11 / 00		D 06 B		495	D 06 P	1 / 52		C 09 B	5 / 00	17A	A 43 D	29 / 00
	D 06 M	13 / 00	151.2	D 01 D	10 / 04		D 06 P			C 09 B	6 / 00	17R	A 43 D	25 / 00
	D 06 M	23 / 00		D 06 B	3 / 04	496	D 06 P	1 / 56	680	A 61 Q	1 / 02		A 43 D	27 / 00
116.4	D 06 M	13 / 12		D 06 B			D 06 P			C 09 B			A 43 D	29 / 00
117-118	D 06 M	11 / 00	152	D 06 B	3 / 28	497	D 06 P	7 / 00	681	C 09 B	31 / 08		A 43 D	35 / 00
	D 06 M	13 / 00		D 06 B		498-499	D 06 P	5 / 00		C 09 B			A 43 D	37 / 00
	D 06 M	23 / 00	154	D 06 B	5 / 14	500	D 06 P	7 / 00	682-684	C 09 B	29 / 00		A 43 D	43 / 00
119	D 21 H	11 / 00		D 06 B		501-508	D 06 P	5 / 00	685-687	C 09 B	45 / 00		A 43 D	67 / 00
	D 21 H	13 / 00	155	A 01 N	25 / 34	509	D 06 P	3 / 52	688-696	C 09 B	29 / 00		A 43 D	69 / 00
	D 21 H	15 / 00		D 06 B		510-511	D 06 P	3 / 70					A 43 D	95 / 00
	D 21 H	17 / 00	155.1	D 06 B	5 / 16	512	D 06 P	3 / 52				17.2	A 43 D	119 / 00
	D 21 H	19 / 00		D 06 B		513-514	D 06 P	3 / 79				18.1	A 43 D	95 / 00
	D 21 H	21 / 00	155.2	D 06 B	5 / 20	515	D 06 P	3 / 24	1A	A 43 D	111 / 00	18.2	A 43 D	25 / 14
	D 21 H	23 / 00		D 06 B		516	D 06 P	3 / 04		A 43 D	117 / 00	18.3	A 43 D	31 / 00
	D 21 H	25 / 00	156	D 06 B		517	D 06 P	3 / 14		A 43 D	119 / 00		A 43 D	39 / 00
	D 21 H	27 / 00		D 21 D	1 / 40		D 06 P	3 / 24	1B	A 43 D	25 / 053	18.5-18.9	A 43 D	43 / 00
120	D 06 M	13 / 00	157	A 01 H	5 / 00	518-519	D 06 P	3 / 60		A 43 D	25 / 16	20-20.2	A 43 D	43 / 06
121	D 06 M	11 / 00		D 06 B		520	D 06 P	3 / 58	1F	A 43 D	85 / 00	21-22	B 29 D	31 / 50
	D 06 M	13 / 184	158	D 06 B		521	D 06 P	3 / 00		A 43 D	25 / 07	24.5	A 43 D	43 / 06
	D 06 M	13 / 224		D 06 F	35 / 00	522-523	D 06 P	3 / 80		A 43 D	43 / 06	27-28	A 43 D	43 / 00
122	D 06 M	11 / 00	159	D 06 F	39 / 00	524-526	C 09 B	67 / 02		B 29 D	31 / 50	29-30	A 43 D	95 / 04
	D 06 M	13 / 00		C 14 C	1 / 06	527-528	C 09 B	67 / 00	1G	A 43 B	7 / 14	31.5-31.6	A 43 D	87 / 00
	D 06 M	13 / 244	160-161	D 06 M	13 / 322	529-534	D 06 P	3 / 82		A 43 B	7 / 18	32-32.1	A 43 D	43 / 00
123	D 06 M	23 / 00	181-196	D 06 P	5 / 00	535	D 06 P	3 / 58		A 43 D	8 / 00		A 43 D	91 / 00
	D 06 M	11 / 00		D 06 P		536-537	D 06 P	3 / 60	1M	A 43 B	3 / 14	33-38	A 43 D	89 / 00
	D 06 M	13 / 00	400	C 09 B	67 / 00	538	D 06 P	3 / 60		A 43 D	113 / 00	39	A 43 D	63 / 00
	D 06 M	23 / 00	401	D 06 P	3 / 60		D 06 P	3 / 70		A 43 D	3 / 02	39.3	A 43 D	91 / 00
125-127	D 06 M	11 / 38	402	D 06 P	5 / 13	539-540	D 06 P	3 / 00	1R	A 43 D	11 / 00	39.5	A 43 D	95 / 00
127.1	D 06 M	11 / 00	403	D 06 P	3 / 04	541-543	C 09 B	62 / 00		A 43 D	37 / 00	40	A 43 D	8 / 00
	D 06 M	13 / 00	404	A 61 K	8 / 00	544	C 09 B	62 / 02		A 43 D	95 / 08	40.5	A 43 D	31 / 00
	D 06 M	13 / 244	405	A 61 Q	5 / 10		C 09 B	62 / 54		A 43 D		41.05	A 43 D	63 / 00
	D 06 M	23 / 00	406	A 61 Q	5 / 10	546-549	C 09 B	62 / 00	1W	A 43 D	11 / 00	41.1-41.2	A 43 D	11 / 14
127.5	D 06 M	11 / 00	407	A 61 Q	8 / 41	550	C 09 B	67 / 00		A 43 D	21 / 12		A 43 D	8 / 52
	D 06 M	13 / 00		A 61 Q	5 / 10		D 06 P			A 43 D	21 / 16	41.3	A 43 D	95 / 06
	D 06 M	15 / 00	408	A 61 Q	5 / 10		C 09 B	67 / 00	4.1	A 43 D	86 / 00	41.5	A 43 D	11 / 14
127.51	A 61 K	8 / 00	409	A 61 K	8 / 49	551-635	C 09 B	67 / 00	4.2	A 43 D	89 / 00		A 43 D	95 / 12
	A 61 Q	5 / 00		A 61 Q	5 / 10	636	C 09 B		4.3	A 43 D	53 / 00	41.7	A 43 D	61 / 00
	D 06 M	10 / 10	410	A 61 Q	8 / 41		D 06 P	1 / 00	4.4	A 43 D	47 / 00	42B	A 43 D	25 / 06
	D 06 M			A 61 Q	5 / 10		D 06 P			A 43 D	47 / 00		A 43 D	25 / 06
127.6	D 01 F	4 / 00	411	A 61 Q	5 / 10	637-1-638	C 09 B	67 / 00		A 43 D	53 / 00	42R	A 43 D	67 / 00
	D 06 M		412	A 61 K	8 / 41		C 09 B		4.5	A 43 D	53 / 00		A 43 D	11 / 00
128.1-128.3	D 06 M	11 / 00		A 61 Q	5 / 10		D 06 P		4.6	A 4				

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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
U.S. CLASS 12--Con.														
49	A 43 D	95/06	146C	A 43 D	11/00	23-29	A 46 B	13/00	103.5	A 47 L	1/02		A 47 K	
49.1	A 43 D	25/12		A 43 D	8/00		A 47 L	11/00		A 47 L	11/02		B 25 G	
	A 43 D	95/28	146CK	A 43 D	11/00		A 47 L	21/02		B 67 C		147.1-154	A 47 L	13/20
50-50.2	A 43 D	33/00		A 43 D	8/00		A 47 L	23/02		E 01 C	23/20	154.2	A 47 L	13/20
50.3	A 43 D	25/00	146D	A 43 B	23/08	30-37	A 47 L	23/02		G 03 D	5/06		A 47 L	13/502
50.4	A 43 D	33/00	146L	A 43 D	3/00		A 47 L	23/06	104.001	A 47 L	13/00	159.1	A 46 B	5/00
50.5	A 43 D	115/00	146M	A 43 B	7/14	38	A 46 B	17/06	104.002	A 46 B			A 46 B	
51	A 43 D	11/00	146R	A 43 B	13/38		A 46 B			A 47 L	25/00	160	A 46 B	9/02
	A 43 D	13/00		A 43 B	23/02	39	A 45 D	24/40	104.011	F 23 J			A 46 B	
	A 43 D	25/00		A 43 D	11/00	39.5	A 46 B	11/00		H 01 T	21/04	161	A 46 B	
	A 43 D	8/00		A 43 D			A 46 B	3/00	104.012	F 02 B	77/04		A 47 L	23/22
	A 43 D	86/00	146S	A 43 D	31/00		A 46 B	5/00		F 23 J		164-165	A 46 B	5/00
	A 43 D	9/00	146W	A 43 B	15/00		A 46 B	7/00	104.02	F 23 J	3/00		A 46 B	
	A 43 D	95/00	147A	A 43 B	21/06		A 46 B	9/00		F 28 G	1/00	166	A 46 B	17/08
52	A 43 D	11/00	147B	A 43 D	25/12		A 47 L	11/00	104.03	B 08 B	1/00		A 46 B	
52.5-53.1	A 43 D	11/00	147R	A 43 D	25/00		A 47 L	13/00		B 08 B	7/00	167.1-167.2	A 46 B	9/04
	A 43 D	13/00		A 43 D	33/00	40	A 47 L	11/00		B 08 B	9/00	167.3	A 45 D	29/17
	A 43 D	15/00	148	A 43 D	25/00		D 06 G	1/00	104.04-104.05	B 08 B	1/00		A 46 B	9/02
	A 43 D	95/00					D 06 G			B 08 B	7/00		A 46 B	
53.2-55.1	A 43 D	11/00				41.1-48.2	A 47 L	11/32		B 08 B	9/00	168-170	A 46 B	9/08
	A 43 D	95/00					D 06 G	1/00		F 16 L	45/00		A 46 B	
57-57.1	A 43 D	85/00				49.1-50.3	A 47 L	11/00		F 16 L	55/00	171	A 46 B	3/08
57.5-57.6	A 43 D	27/00				51-52	A 47 L	11/00	104.061-104.063	B 08 B	1/00		A 46 B	
58	A 43 D	115/00	2	E 01 D	1/00		A 47 L	13/00		B 08 B	7/00	172	A 46 B	5/00
	A 43 D	8/34	2.4	E 01 D	15/12		A 47 L	13/00		B 08 B	9/04		A 46 B	
	A 43 D	1/00	2.5	E 01 D	15/10	52.1-52.2	A 47 L	3/00		F 16 L	45/00	173	A 46 B	3/08
58.3	A 43 D	100/00	2.6	E 01 D	15/14	53.1-53.4	B 60 S	3/00		F 16 L	55/00		A 46 B	
	A 43 D	11/00	3-12	E 01 D	6/00	54-55	B 61 F	19/00		F 16 L	55/00	174	A 46 B	3/10
58.5-59.7	A 43 D	11/00	13-15	E 01 D	19/00		E 01 H	8/00	104.066-104.069	B 23 J	3/00		A 46 B	
61A	A 43 D	11/00	18-20	E 01 D	11/00	56	A 47 L	15/00	104.07-104.09	B 08 B	1/00	175	A 46 B	3/08
	A 43 D	8/00	21	E 01 D	11/00		B 08 B	9/20		B 08 B	7/00		A 46 B	
		8/00		E 01 D	19/14	57-58	B 08 B	9/20		B 08 B	9/00		A 46 B	
64-66	B 29 D	31/50	22	E 01 D	11/00		B 08 B	9/46		F 16 L	45/00	176.1-176.2	A 46 B	7/04
		44/00		E 01 D	19/16	59-76	A 47 L	15/00		F 16 L	55/00		A 46 B	
		47/00	23	E 01 D	21/00		B 08 B	9/20	104.095-104.098	B 08 B	1/00	176.3	A 46 B	15/00
		57/00	24-26	E 01 D	4/00	77	A 47 L	15/00		B 08 B	7/00		A 46 B	
70-79.5	A 43 D	95/00	27-30	E 01 D	15/08		A 47 L	25/00		B 08 B	9/00	176.4-176.6	A 46 B	7/04
85	A 43 D	21/00		E 01 D	15/14	78-87	E 01 H	1/02		F 16 L	45/00		A 46 B	
	A 43 D	27/00	31	E 01 D	15/00		E 01 H	1/04		F 16 L	55/00	177-178	A 46 B	3/08
	A 43 D	8/32	32-35	E 01 D	15/04	88-88.4	A 47 L	15/00		F 28 G	3/00		A 46 B	
	A 43 D	8/36	36-41	E 01 D	15/06		A 47 L	25/00	104.11-104.19	B 08 B	1/00	179-183	A 46 B	13/00
	A 43 D	93/00		E 01 D	15/08	89-92	A 47 L	11/36		B 08 B	7/00		A 46 B	
85.1-95	A 43 D	21/00		E 01 D	19/04	93.1-93.4	A 01 K	31/04		B 08 B	9/00	184	A 46 B	7/02
	A 43 D	27/00	42	E 01 D	15/02		B 08 B	9/38		F 16 L	45/00		A 46 B	
	A 43 D	8/00	43-44	E 01 D	15/10		B 23 D	79/02		F 16 L	55/00	185	A 46 B	5/00
	A 43 D	93/00	45-46	E 01 D	15/00		C 10 B	43/04	104.2	F 16 L	45/00		A 46 B	
103-120.5	A 43 D	15/00	47	E 01 D	19/06	94	A 47 L	13/502		F 16 L	55/00	186	A 46 B	7/00
	A 43 D	19/00	48	E 01 F	13/00		A 47 L		104.31	B 08 B	1/00		A 46 B	
	A 43 D	5/00	49	E 01 F	9/00		B 08 B			B 08 B	7/00	187	A 46 B	1/00
	A 43 D	95/00		G 08 B	1/00		F 28 G	7/00		B 08 B	9/02		A 46 B	
122	A 43 D	5/00	50-69	E 01 F	13/00	95-96	B 08 B	9/20	104.32	F 16 L	45/00	188	A 46 B	9/04
123	A 43 D	25/10		E 04 H	17/00	97.1	A 47 L	1/02		F 16 L	55/00		A 46 B	
	A 43 D	3/00	69.5	E 01 D	1/00		A 47 L	11/02	104.33	B 08 B	1/00	189	A 46 B	3/18
123.3-127	A 43 D	23/00	70	B 65 G	15/00		B 67 C			B 08 B	7/00		A 46 B	
	A 43 D	3/00	71.1-72.5	E 01 D	1/00		G 03 D	5/06		B 08 B	9/02	190	A 46 B	3/16
128B-128R	A 43 D	3/00	73	E 01 D	19/12		G 11 B	23/50	104.5-104.54	A 45 D	24/44		A 46 B	
128V	A 43 D	3/00	73.1	E 01 D	19/06	97.2	A 47 L	1/02	104.8	A 46 B	17/08	191.1	A 46 B	
	A 43 D	3/14	73.5	E 01 D	19/04		A 47 L	11/02		A 47 L	13/42		A 46 D	3/00
129.4	A 43 D	3/00	74	E 01 D	19/08		A 47 L	23/02	104.9	B 08 B	9/08	192-194	A 46 B	15/00
133A-133M	A 43 D	3/00	74.5	E 01 D	11/00		B 67 C			B 08 B	9/20		A 46 B	
	A 43 D	3/02		E 01 D	2/00		G 03 D	5/06	104.92-104.94	B 08 B	1/00	195-196	A 46 B	3/16
		3/00	75-76	E 01 D	19/02	97.3	A 47 L	1/02	105	A 46 B	15/00		A 46 B	
		23/00	77.1	E 01 D	21/00		A 47 L	11/02		A 47 L		197	A 46 B	9/06
		3/00	77.3	E 01 D	19/02		B 60 S	3/06	105.5	A 47 L			A 46 B	
142A	A 43 B	9/08	78	E 01 D	1/00		B 67 C			E 04 F	21/165	198	A 46 B	13/00
	A 43 D	85/00					G 03 D	5/06	105.51	B 25 F	1/00		A 46 B	
142B-142C	A 43 B	9/00				98	A 47 L	1/02	105.52	B 25 F	1/00	199	A 46 B	3/16
142D	A 43 B	9/04					A 47 L	11/02		B 43 L	19/00		A 46 B	
142E	A 43 B	1/10					A 47 L	11/162	105.53	B 26 B	11/00	200	A 46 B	7/10
142EV	A 43 B	3/16					B 67 C		106-115	A 47 L	13/00		A 46 B	
142F	A 43 B	9/12	1	A 47 L			G 03 D	5/06		A 47 L	23/04	201	A 46 B	7/06
142G	A 43 B	1/02		B 44 D	3/00	99	A 47 L	1/02		E 04 F	21/16		A 46 B	
142J	A 43 B	13/37		E 01 H			A 47 L	11/02	116.1	A 47 L	13/14	202	A 46 B	15/00
142K	A 43 D	11/00	1.51-1.52	A 47 L	13/40		A 47 L	11/29		A 47 L	13/58		A 46 B	
142LC	A 43 D	11/00	1.7	E 04 H	4/16		B 67 C		116.2	A 47 L	13/00	203	A 46 B	7/02
142MC	A 43 B	3/14	3	A 47 L	11/00		G 03 D	5/06	117-118	A 47 L	13/00		A 46 B	
142N	A 43 B	7/14		A 47 L	23/00	100	A 47 L	1/02		A 47 L	23/04	204	A 46 B	3/12
142P	A 43 B	5/00		A 47 L	3/00		A 47 L	11/02		E 04 F	21/16		A 46 B	
142Q	A 43 D	11/00		B 08 B	7/00		B 67 C		119.1-120.2	A 47 L	13/00	205	A 46 B	3/18
	A 43 D	95/00		B 08 B			G 03 D	15/00	121	A 47 L	13/00		A 46 B	
142R	A 43 D	11/00		D 06 F	15/00		G 03 D	5/06		A 47 L	23/04	205.2	A 46 B	11/00
	A 43 D	21/00		D 06 F	37/00	101	A 47 L	1/02		E 04 F	21/16	206-207	A 46 B	3/18
	A 43 D	9/00		D 06 F	39/00		A 47 L	11/02	141.1-141.2	A 47 L	11/36		A 46 B	
142RS	A 43 B	13/04	3.1-3.21	A 01 K	43/00		A 47 L	15/00		A 47 L	13/36	207.2	A 46 B	
	A 43 B	9/00		A 23 N</										