

**CONCORDANCE - United States to International Patent Classification**

U.S.			IPC			U.S.			IPC			U.S.			IPC		
Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation
<b>U.S. CLASS 249--Con.</b>																	
1	E 01 D		116	B 29 C	33/44	214D	B 60 Q	1/14		H 01 J	47/00	432PD	B 01 D	59/44			
	E 02 B		117	A 01 J	25/13		G 05 D	25/02	306-311	G 01 N	23/00	440.11-441.11	G 01 F	23/00			
	E 02 D			B 22 C	9/06	214DC	H 03 K	17/78		G 21 K	7/00	440.11	G 21 K	5/08			
	E 04 C			B 28 B	7/00	214L-214R	G 01 J	1/44	315.3	G 03 G	13/00		G 21 K	5/10			
	E 04 G	11/06		B 28 C	1/04	214LA	H 01 J	43/00		G 03 G	15/00	441.11	G 01 K	5/08			
	E 04 G			B 29 C	33/00		H 01 J	43/30	316.1	G 03 G	5/16		G 01 K	5/10			
	E 21 D	9/00		B 41 B	9/08	214LS	H 03 K	17/78	317.1-319	G 03 C	5/16	442.11-443.1	G 21 K	5/10			
2-9	E 01 C	7/00		B 41 D	3/00		H 03 K	19/14	324-326	H 01 T	19/04	443.1-454.11	G 01 N	21/00			
2	E 01 C	13/00	118	B 41 B	11/56	214P	G 01 J	1/42		G 01 T	1/00	443.1	G 01 N	23/00			
	E 01 C	15/00	119-126	B 28 B	7/24		G 03 B	7/08	329	G 01 B	21/00		G 21 K	5/08			
	E 01 C	19/50		B 28 B	7/26	214PR	H 01 L	31/08	330	G 02 F	1/01		H 01 J	37/20			
8	E 01 C	11/22	119	B 22 C	9/20	214R	H 01 J	40/14		H 01 L	31/00	455.11	G 01 N	23/00			
	E 01 C	9/00		B 41 B	11/68		H 03 F	3/08	331	G 02 F	1/13		H 01 J	37/20			
9	E 01 C	11/02	126	B 41 D	3/06	214RC	G 01 J	1/44		H 01 L	25/00	458.1-459.1	F 21 V	9/16			
10-12	E 02 B		127-133	A 23 G	9/00		H 01 J	40/14	333	H 01 J	31/49		G 01 J	1/58			
10	E 04 G	11/28		B 28 B	7/06	214SF	G 03 B	15/05	334	G 02 B	26/10		G 01 T	1/10			
	E 21 D	9/00		F 25 C	1/24	214SG	H 01 L	31/12	335	G 01 T	5/04		G 21 H	3/02			
11-12	E 02 D	29/00	134-135	B 28 B	7/34	214SW	H 03 K	17/78		G 01 T	5/06		G 21 K	5/00			
11	E 04 G	11/02	136	B 28 B	7/10	214VT	H 01 J	31/50	336.1	G 01 J	1/00		H 01 J	65/06			
12	E 01 F	5/00	137	B 28 B	7/08		H 01 J	43/30		G 01 T	1/00		H 01 J	65/08			
	E 21 D	9/00		B 41 B	11/66	214.1	H 01 L	31/00	336.2	H 01 L	27/18	461.1-461.2	G 01 N	21/64			
13-14	B 28 B	7/22	138	B 41 B	9/10	215-222.2	H 01 J	40/14		H 01 L	39/00	462.1-467.1	F 21 K	2/00			
13	B 28 B	7/00	139	B 29 C	33/22	216	H 01 J	3/14	337	G 01 T	1/11	472.1-473.1	G 01 T	1/04			
	E 02 D		140-141	B 29 C	33/46		H 01 J	5/16	338.1	G 01 J	5/00		G 01 T	1/06			
	E 04 B		142	B 28 B	7/16	221	G 06 M	7/00	338.2	H 01 L	37/00		G 01 T	5/00			
	E 04 F		143	B 29 C	33/46	222.2	G 01 V	8/00	338.3	G 01 J	5/00		G 03 G	5/10			
	E 04 G		144-153	B 22 C	9/24	223B	B 07 C	5/12	338.4	G 01 J	5/20	474.1	G 01 N	21/00			
	E 04 G	13/06	144	B 41 D	3/08		B 07 C	5/34		H 01 L	27/14		G 01 N	5/00			
14	E 04 G	13/00	154	B 41 D	3/04		G 01 N	21/90	338.5	H 01 L	31/00	475.2	G 03 B	42/00			
15	E 04 G	9/10	155-157	B 41 B	11/60			9/04	339.01-340	G 01 N	21/00		G 03 C	5/16			
16	E 04 G	15/06	155-158	B 28 B	7/02			7/00	341.1-353	G 01 J	5/02	482.1	G 03 B	11/00			
17	E 04 G	11/00	158-159	B 41 B	11/68			40/14		G 01 J	5/02	483.1	G 01 J	1/58			
18-19	E 04 G	11/20	159	B 28 B	7/04	225	G 02 F	1/01	354.1	G 01 J	1/42		G 01 N	21/64			
20-22	E 04 G	13/04	160	B 41 B	11/54	226	G 01 J	3/50		G 01 T	1/00		G 01 T	1/00			
23-25	E 04 G	17/00	161-162	B 41 B	11/56		H 01 J	5/16	356.1-356.2	G 01 F	1/00	484.2-484.5	H 05 B	33/00			
26-27	E 04 G	11/02	163-167	B 41 B	11/60	227.11-227.16	G 01 J	1/04		G 01 N	21/00	485.1-488.1	G 01 J	1/58			
28-32	E 04 G	11/40	168-169	B 41 B	11/58		G 01 J	1/42	357.1-360.1	G 01 F	23/00		G 01 N	21/64			
33-34	E 04 G	11/06	170-173	B 41 B	11/54		G 01 J	5/08		G 01 N	1/20		G 01 T	1/00			
35	E 04 G	15/00	174	B 22 D	7/06	227.17-227.19	G 01 J	4/00	361C	G 01 T	1/10	489	B 01 D	59/44			
36-38	E 04 G	11/18	175-177	B 28 B	7/28	227.18-227.19	G 01 J	5/08	363.02-363.03	G 01 T	1/164		H 01 J	49/26			
39	E 04 G	15/00	178-182	B 28 B	7/30	227.2	G 02 B	6/06	363.02	G 01 T	1/161	491.1	G 01 J	1/00			
40-47	E 04 G	11/06	183	B 29 C	33/76	227.21	G 01 J	1/34	363.04-363.05	G 01 T	1/166		G 01 N	21/00			
	E 04 G	17/06	184-186	B 28 B	7/28	227.22	G 01 J	1/36	363.06-363.09	G 01 T	1/161		G 01 N	23/00			
48-49	E 04 G	13/02	187.1	B 29 C	33/00	227.23	G 01 N	21/25		G 01 T	1/164	492.1-492.2	A 61 N	5/00			
50	B 28 B	7/22	188-196	E 04 G	9/00	227.24	G 02 B	6/26	363.1	G 21 K	1/02		G 21 G	5/00			
	E 04 G	11/50	197-202	B 22 D	7/10	227.25	G 02 B	6/42	364-369	G 01 T	1/20	492.21-492.24	G 21 K	5/10			
51	E 02 D	5/34	203	A 23 G	9/00	227.26	G 02 B	26/00	370.01-370.04	G 01 T	1/24		H 01 J	37/08			
	E 02 D	5/64	204	B 22 D	41/00	227.27-227.32	G 01 B	9/10	370.01-371	G 01 J		492.3	A 61 N	5/00			
	E 04 C	3/30		B 22 D	7/10	228	G 01 J	1/00	370.02	G 01 T	1/178		G 21 G	5/00			
	E 04 G	13/02	205	B 28 B	7/00	229	G 01 D	5/34	370.03	G 21 C	17/04	493.1	G 21 G	4/00			
52	B 28 B	7/16		E 04 G	17/00		H 01 J	1/56	370.04	G 01 T	3/00	494.1	A 61 N	5/06			
	B 28 B	7/20	206	B 22 D	35/04	230	G 01 D	5/30	370.05	G 01 T	3/08		G 01 J				
53M-53R	B 29 C	39/00		B 22 D	7/12	231.1-231.18	G 01 D	5/34	370.06	G 01 T	1/24	495.1	G 01 J	1/00			
	B 29 C	41/00		B 41 B	11/84	231.17	G 01 J	9/00	370.07	G 01 T	1/02	496.1-498.1	G 21 F	5/02			
54	A 61 C	9/00	207-212	E 04 G	17/00	231.19	G 01 J	1/56	370.08-370.09	H 01 L	27/146	503.1	G 01 J	1/00			
55	A 41 G	1/02	213-218	E 04 G	17/06		G 01 J	5/46	370.08-370.1	H 01 L	25/00	504H	G 02 B	1/00			
	B 22 C	9/22	219.1-219.2	E 04 G	17/00	232-233	G 01 D	5/36		H 01 L	27/00		G 02 B	5/00			
56	B 22 C	9/28				234-236	H 01 J	3/14	370.08-370.15	G 01 T	1/24	504R	A 61 N	5/06			
57	B 22 C	9/24	<b>U.S. CLASS 250</b>				H 01 J	40/14	370.1	G 01 T	1/29		G 01 J	3/10			
	B 22 C	9/30	<b>RADIANT ENERGY</b>				H 01 J	5/16	370.11	G 01 T	1/20		G 01 J				
58	B 22 C	9/22	200	C 12 Q	1/68	237G-237R	G 01 D	5/36	370.13	H 01 L	27/146		H 05 G	2/00			
59	B 29 D	1/00		G 01 J		237R	G 01 D	5/38	371	G 01 T	1/26	505.1	G 02 B	5/00			
60	B 22 C	9/26		G 01 J			G 01 J	1/04	372-373	G 01 J	1/42		G 21 K	1/00			
	B 22 D	25/04		H 01 J	40/00	238-239	H 01 J	40/14	374-381	H 01 J	47/00		H 01 J	1/52			
61-62	B 28 B	7/34	201.1	G 01 J	1/20	238	H 01 J	7/24	374-388	G 01 T	1/18		H 01 J	29/46			
63-64	B 29 C	39/00	201.2-201.7	G 02 B	27/40	239	H 01 J	5/02	382	G 01 T	1/185		H 01 J	3/00			
	B 29 C	41/00		G 02 B	27/64	250	G 01 R	23/02	383-389	H 01 J	47/00		H 01 J	5/18			
65	B 28 B	7/32		G 02 B	7/04	251	H 01 S	1/00	389	G 01 T	1/185	506.1-515.1	G 21 F	5/00			
66.1-77	A 23 G	9/00	201.7	G 03 B	3/00		H 01 S	3/00	390.01	G 01 T	3/00	515.1	G 21 C	11/00			
78-79	B 22 D	27/02	201.8	G 01 B	9/04		H 05 H	3/02	390.02	G 01 N	23/05		G 21 F	1/00			
78	B 28 B	7/42		G 02 B	21/00	252.1	G 01 D	18/00	390.03	G 01 T	1/02		G 21 F	3/00			
80-81	B 22 D	27/04	201.9	G 01 J	1/20		G 1										

**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 250--Con.</b>														
557	G 06 K	7 / 015	369	F 16 K	1 / 48	62.9PZ	C 04 B	35 / 00		C 01 B	15 / 01		C 09 K	3 / 00
558	G 01 C	11 / 12				62.9R	C 04 B	35 / 495		C 01 B	15 / 037		C 22 B	3 / 00
559.01-559.44	G 01 N	21 / 86					H 01 L	41 / 18		C 09 K	3 / 00	187.21	A 62 D	3 / 00
	G 01 V	8 / 00					H 01 L	41 / 187		D 06 L	3 / 02		A 62 D	9 / 00
559.45-559.49	G 01 N	21 / 88				67-69	C 09 K	5 / 00	186.3	A 01 N			C 01 B	11 / 02
564-565	G 01 N	21 / 00	1	C 09 K	3 / 00		C 09 K	5 / 04		A 62 D	3 / 00		C 09 K	3 / 00
566-570	G 06 K	7 / 10					C 10 M			A 62 D	9 / 00	187.22	A 01 N	
573-577	G 01 N	15 / 06	2-5	A 62 C			F 25 D			C 01 B	15 / 00		A 62 D	3 / 00
	G 01 N	21 / 49		A 62 D	1 / 00	70	C 09 K	3 / 18		C 01 B	15 / 12		A 62 D	9 / 00
	G 01 N	21 / 85	6-6.5	A 62 C		71-79	C 09 K	5 / 00		C 09 K	3 / 00		C 01 B	11 / 02
578.1	H 01 J	40 / 14		A 62 D	1 / 00	79.1	C 09 K	13 / 00	186.31	A 01 N			C 01 B	7 / 01
580-581	G 03 C	5 / 16		A 62 D	1 / 06	79.2	C 09 K	13 / 04		A 62 D	3 / 00		C 09 K	3 / 00
	G 21 K	4 / 00	7-8.05	A 62 C		79.3	C 09 K	13 / 08		A 62 D	9 / 00	187.23	A 01 N	
580-591	G 01 N	23 / 04		A 62 D	1 / 00	79.4	C 09 K	13 / 06		C 01 B	15 / 00		A 62 D	3 / 00
581-583	A 61 B	6 / 00	8.57	C 14 C	9 / 00	79.5	C 09 K	13 / 02		C 01 B	15 / 12		A 62 D	9 / 00
583	H 01 J	37 / 22	8.61	D 06 M	15 / 643	88.1-88.2	C 09 K	3 / 22		C 09 K	3 / 00		C 01 B	11 / 02
584-585	G 01 T	1 / 105		D 06 M		175-179	C 02 F	5 / 02		C 11 D	3 / 39		C 01 B	11 / 10
	G 03 B	42 / 08	8.62	D 06 M	15 / 263		C 02 F	5 / 08	186.32	A 01 N		187.24-187.26	A 01 N	
585	G 02 B	26 / 10		D 06 M		180-181	C 02 F	5 / 10		A 62 D	3 / 00		C 11 D	3 / 395
586	G 11 B	7 / 135	8.63	D 06 M	13 / 224	181.1-181.7	H 01 J	35 / 20		A 62 D	9 / 00	187.27-187.29	A 01 N	
589-590	B 65 H	5 / 00	8.81	D 06 M	13 / 224		H 01 J	7 / 18		C 01 B	15 / 043		C 01 B	11 / 06
	B 65 H	7 / 00		D 06 M	15 / 53		H 01 K	1 / 56		C 09 K	3 / 00	187.3	A 62 D	3 / 00
591	G 02 B	26 / 10		D 06 M		182.1	H 01 M	4 / 88		C 11 D	3 / 39		A 62 D	9 / 00
				D 06 M		182.11-183.16	C 09 K	3 / 00	186.33	A 01 N		187.31	C 01 B	11 / 06
			8.82	C 08 J	5 / 06	184	C 01 B	31 / 16		A 62 D	3 / 00		C 09 K	3 / 00
				D 06 M	13 / 224		C 09 K	3 / 00		A 62 D	9 / 00		A 01 N	
				D 06 M		185	C 09 K	3 / 00		C 01 B	13 / 00		A 62 D	3 / 00
			8.83	D 06 M	15 / 333		C 10 G	19 / 06		C 09 K	3 / 00		A 62 D	9 / 00
				D 06 M		186.1	A 01 N			C 11 D	3 / 39		C 01 B	11 / 14
				D 06 M			A 62 D	3 / 00	186.34	A 01 N			C 01 B	11 / 18
1.1-1.3	E 21 B	33 / 06	8.84	D 06 M	13 / 224		A 62 D	9 / 00		A 62 D	3 / 00		C 01 B	13 / 02
3	B 23 Q	35 / 18		D 06 M	15 / 53		C 01 B	11 / 00		A 62 D	9 / 00		C 09 K	3 / 00
4-10	F 16 K	7 / 04		D 06 M			C 01 B	7 / 00		C 01 B	11 / 06	187.32	A 01 N	
11	F 16 K	31 / 00	8.85	D 06 M	13 / 52		C 02 F	1 / 00		C 07 C	17 / 00		A 62 D	3 / 00
	F 16 K	31 / 18		D 06 M			C 09 K	3 / 00		C 09 K	3 / 00		A 62 D	9 / 00
12	F 16 K	31 / 12	8.86	D 06 M	13 / 02		C 11 D	3 / 39		C 11 D	3 / 395		C 01 B	11 / 04
14	F 16 K	31 / 00		D 06 M			A 01 N		186.35	A 01 N		187.33	A 01 N	
15-23	F 16 K	21 / 04		D 06 M			A 62 D	3 / 00		A 62 D	3 / 00		A 62 D	3 / 00
15-60	F 16 K	31 / 12	8.91	D 06 M	23 / 06		C 01 B	11 / 00		C 01 B	9 / 00		A 62 D	9 / 00
61-64	F 16 K	31 / 00		D 06 M		60	C 01 B	13 / 00		C 07 D	251 / 00		C 01 B	11 / 06
65	F 16 K	31 / 08	61	B 03 D	1 / 001		C 01 B	7 / 00		C 09 K	3 / 00		C 09 K	3 / 00
66-83	F 16 K	31 / 44		B 03 D	1 / 001		C 09 K	3 / 00		C 11 D	3 / 395		D 06 L	3 / 06
84-88	F 16 K	25 / 00		C 22 B	1 / 00		C 11 D	3 / 395	186.36	A 01 N		187.34	A 01 N	
89-116	F 16 K	35 / 00	62	E 04 B	1 / 74		A 01 N			A 62 D	3 / 00		A 62 D	3 / 00
117	F 16 K	51 / 00	62.2	H 01 G	9 / 02		A 62 D	3 / 00		A 62 D	9 / 00		A 62 D	9 / 00
118-127	F 16 K	47 / 00		H 01 G		186.21	A 01 N			A 62 D	3 / 00		A 62 D	9 / 00
	F 16 L	55 / 02		H 01 G			A 62 D	9 / 00		C 01 B	11 / 00		C 01 B	11 / 06
128	F 16 K	31 / 00		H 01 G			C 01 B	11 / 00		C 01 B	7 / 00		C 07 D	251 / 00
129.01-129.22	F 16 K	31 / 02	62.3BT	C 04 B	35 / 00		C 01 B	13 / 00		C 09 K	3 / 00		C 09 K	3 / 00
142-156	F 16 K	51 / 00		H 01 L	29 / 12		C 01 B	13 / 02		C 11 D	3 / 395		C 11 D	3 / 395
143	F 16 K	23 / 00	62.3C-62.3E	C 04 B	35 / 00		C 01 B	7 / 00	186.37	A 01 N		188.1	B 01 D	19 / 00
148-152	F 16 L	29 / 00		H 01 L	29 / 12		C 01 B	13 / 02		A 62 D	3 / 00		C 01 B	3 / 00
149-149.7	F 16 L	37 / 28	62.3GA	C 04 B	35 / 00		C 09 K	3 / 00		A 62 D	9 / 00		C 01 B	6 / 00
149.9	F 16 L	37 / 28		H 01 L	29 / 12		A 01 N		186.22	A 62 D	3 / 00		C 02 F	1 / 70
157-204	F 16 K	25 / 00	62.3Q-62.3R	C 04 B	35 / 00		A 62 D	3 / 00		C 01 B	11 / 00		C 06 B	23 / 00
205-207	F 16 K			H 01 L	29 / 12		A 62 D	9 / 00		C 01 B	11 / 06		C 06 B	43 / 00
205	F 16 K	1 / 36	62.3S	C 04 B	35 / 00		C 01 B	13 / 02		C 09 K	3 / 00		C 06 D	5 / 00
206	F 16 K	3 / 32		H 01 L	29 / 12		C 01 B	15 / 00		A 01 N		186.38-186.39	C 09 K	3 / 00
207	F 16 K	5 / 02		H 01 L	29 / 18		C 01 B	15 / 00		C 01 B	7 / 00		C 01 B	3 / 00
208-209	F 16 K	5 / 10	62.3T	C 04 B	35 / 00		C 09 K	3 / 00		A 01 N		188.2	B 01 D	19 / 00
210-211	F 16 K			H 01 L	29 / 12	186.23	A 01 N			C 11 D	3 / 39		C 02 F	1 / 70
210	F 16 K	1 / 34	62.3V	C 04 B	35 / 00		A 62 D	3 / 00	186.4	A 01 N			C 09 K	3 / 00
211	F 16 K	1 / 14		H 01 L	29 / 12		A 62 D	9 / 00		A 62 D	3 / 00		C 09 K	3 / 00
212	F 16 K	3 / 00		H 01 L	29 / 22		C 01 B	15 / 00		A 62 D	9 / 00	188.21	B 01 D	19 / 00
213-280	F 16 K	31 / 44	62.3ZB-62.3ZT	C 04 B	35 / 00		C 07 C	409 / 00		C 01 B	15 / 00		C 01 B	17 / 62
281-283	F 16 K	39 / 00		H 01 L	29 / 12		C 09 K	3 / 00		C 01 B	7 / 00		C 09 K	3 / 00
284-288	F 16 K	51 / 00	62.51C	C 04 B	35 / 00	186.24	A 01 N			C 09 K	3 / 00	188.22-188.24	B 01 D	19 / 00
289-297	F 16 K	31 / 00		C 09 D	5 / 23		A 62 D	3 / 00		C 11 D	3 / 39		C 01 B	17 / 66
298-303	F 16 K	1 / 16		H 01 F	1 / 00		A 62 D	9 / 00	186.41	A 01 N			C 09 K	3 / 00
304	F 16 K	5 / 00		H 01 F	29 / 12		C 01 B	13 / 00		A 62 D	3 / 00	188.25-188.26	C 01 B	3 / 00
305-308	F 16 K	1 / 22	62.51R	C 04 B	35 / 00		C 01 B	13 / 02		A 62 D	9 / 00		C 01 B	6 / 00
309-314	F 16 K	5 / 00		C 09 D	5 / 23		C 09 K	3 / 00		C 01 B	15 / 01		C 06 B	23 / 00
315.01-315.09	F 16 K	5 / 00		H 01 F	1 / 00	186.25	A 01 N			C 09 K	3 / 00		C 06 B	43 / 00
	F 16 K	5 / 06	62.52	C 04 B	35 / 00		A 62 D	3 / 00		C 11 D	3 / 39		C 06 D	5 / 00
	F 16 K	5 / 06		C 09 K	3 / 00		A 62 D	9 / 00	186.42-186.43	A 01 N			C 09 K	3 / 00
315.1-315.16	F 16 K	5 / 00		G 01 N	27 / 82		C 01 B	11 / 00		A 62 D	3 / 00	188.27	C 01 B	6 / 06
315.1-317	F 16 K	5 / 00		H 01 F	1 / 28		C 01 B	13 / 00		A 62 D	9 / 00		C 06 B	23 / 00
317.01	F 16 K	5 / 06		H 01 F	1 / 28		C 01 B	15 / 00		C 01 B	15 / 00		C 06 B	43 / 00
318-325	F 16 K	1 / 00	62.53	C 04 B	35 / 64		C 01 B	7 / 00		C 09 K	3 / 00		C 06 D	5 / 00
	F 16 K	15 / 00		H 01 F	1 / 00		C 09 K	3 / 00		C 11 D	3 / 39		C 09 K	3 / 00
326-329	F 16 K	3 / 00		H 01 F	1 / 28		C 11 D	3 / 39	186.44	A 01 N		188.28	C 01 B	3 / 00
330-334	F 16 K	1 / 00	62.54	C 04 B	35 / 04	186.26-186.27	A 01 N			A 62 D	9 / 00		C 01 B	6 / 00
	F 16 K	15 / 00		H 01 F	1 / 00		A 62 D	3 / 00		C 09 K</				