

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 12--Con.														
146R	A 43 B	23/02		A 47 L	13/00	142	A 47 L	23/24	230.12-230.13	B 24 D	13/08		A 47 L	9/00
	A 43 D	11/00	40-48.2	D 06 G	1/00		A 47 L	25/00	230.14	B 24 D	13/04		B 08 B	5/00
	A 43 D		40	D 06 G		143.1-144.4	A 47 L	13/00	230.15	B 24 D	13/08		D 06 G	1/00
146S	A 43 D	31/00	41.1-48.2	A 47 L	11/32		B 25 G	1/00	230.16	B 24 D	13/14	313-315	B 60 S	1/54
146W	A 43 B	15/00	49.1-52	A 47 L	11/00	143.1-146	A 46 B	5/02	230.17	A 47 L	11/164		B 60 S	1/64
147A	A 43 B	21/06	51-52.2	A 47 L	13/00	145-146	A 47 K		230.18	B 24 D	13/14	313-318.1	A 47 L	15/00
147B	A 43 D	25/12	53.1-53.4	B 60 S	3/00		B 25 G		230.19	B 24 D	13/08		A 47 L	5/38
147R	A 43 D	25/00	54-55	B 61 F	19/00	145	A 46 B	5/00	231	A 47 L	13/46	316.1-318.1	F 23 J	3/02
	A 43 D	33/00		E 01 H	8/00	146	A 46 B	17/02	232-233	A 47 L	1/06	316.1	D 06 G	1/00
148	A 43 D	25/00	56-76	B 08 B	9/20	147.1-154.2	A 47 L	13/20	234-235	A 47 L	13/38	318.1	D 06 G	1/00
			56	A 47 L	15/00	154.2	A 47 L	13/502	235.3	E 04 G	21/20	319	A 47 L	5/00
			57-58	B 08 B	9/46	159.1-161	A 46 B		235.4-235.8	E 01 C	19/12	320-322	A 47 L	7/00
			59-77	A 47 L	15/00	159.1	A 46 B	5/00	235.4-241	B 05 C	17/10	323-339	A 47 L	9/00
			77	A 47 L	25/00	160	A 46 B	9/02	236.01-241	A 47 L	13/02	323-340.4	A 47 L	5/00
			78-87	E 01 H	1/02	161	A 47 L	23/22		A 47 L	17/06	339	A 47 L	7/00
				E 01 H	1/04	164-165	A 46 B	5/00		A 47 L	23/22		B 08 B	5/00
				A 47 L	15/00	164-166	A 46 B		244.1-244.3	A 47 L	13/46	340.1-340.4	E 01 H	1/08
				A 47 L	25/00	166	A 46 B	17/08	244.1-244.4	A 47 K	7/02	341-343	A 47 L	5/02
				A 47 L	11/36	167.1-167.2	A 46 B	9/04	244.4	A 47 L	21/00	344	A 47 L	5/08
				A 01 K	31/04	167.3-205	A 46 B		245	A 47 L	13/16	344	A 47 L	5/24
				B 08 B	9/38	167.3	A 45 D	29/17	245.1	B 05 C	17/10	345-346	A 47 L	5/14
				B 23 D	79/02	168-170	A 46 B	9/08		B 05 C		347-353	A 47 L	9/10
				C 10 B	43/04	171	A 46 B	3/08	246	A 47 L	1/00		A 47 L	9/20
			94	A 47 L	13/502	172	A 46 B	5/00		B 05 C		354-361	A 47 L	5/34
				A 47 L		173	A 46 B	3/08	246.2-246.4	A 47 L	5/00	362-382	A 47 L	5/00
				B 08 B		174	A 46 B	3/10		A 47 L	7/00	363-382	A 47 L	9/04
				F 28 G	7/00	175	A 46 B	3/08		A 47 L	9/00		A 47 L	9/06
				B 08 B	9/20	176.1-176.2	A 46 B	7/04	246.5	F 22 B	37/48	383-392	A 47 L	5/10
			95-96	A 47 L	1/02	176.3	A 46 B	15/00	247	A 46 B	17/04		A 47 L	5/26
			97.1-103.5	A 47 L	11/02	176.4-176.6	A 46 B	7/04		A 47 L	13/44	393-403	A 47 L	9/06
				B 67 C		177-178	A 46 B	3/08	248.1-248.2	A 46 B	17/00	393-408	A 47 L	5/00
				G 03 D	5/06	179-183	A 46 B	13/00	249.1-249.3	F 23 J	3/00	406-408	F 23 J	
			97.1	G 11 B	23/50	184	A 46 B	7/02	250.001-250.003	B 08 B		406	B 08 B	9/02
			97.2	A 47 L	23/02	185	A 46 B	5/00	250.001-250.19	A 47 L	1/00	407	B 02 C	18/34
			97.3	B 60 S	3/06	186	A 46 B	7/00		B 60 S	1/02	408	F 04 F	5/46
			98	A 47 L	11/162	187	A 46 B	1/00	250.001	B 60 S	1/04	409	A 47 L	5/16
			99	A 47 L	11/29	188	A 46 B	9/04	250.002	B 60 S	1/60	410-411	A 47 L	9/00
			100	G 03 D	15/00	189	A 46 B	3/18	250.003	B 60 R	1/06	412-413	A 47 L	11/00
			101	A 47 L	15/00	190	A 46 B	3/16	250.201-250.34	A 47 L	1/00		A 47 L	13/00
50-69	E 01 F	13/00	102	H 01 L	21/00	191.1	A 46 D	3/00		B 60 S	1/02		A 63 B	47/04
	E 04 H	17/00	103.5	E 01 C	23/20	192-194	A 46 B	15/00	250.351-250.352	A 47 L	1/00	412	A 63 D	5/10
69.5	E 01 D	1/00	104.001	A 47 L	13/00	195-196	A 46 B	3/16		B 60 S	1/02		A 47 L	9/22
70	B 65 G	15/00	104.002	A 46 B		197	A 46 B	9/06	250.361-250.41	A 47 L	1/00	414-422.2	A 47 L	9/28
71.1-72.5	E 01 D	1/00		A 47 L	25/00	198	A 46 B	13/00		B 60 S	1/02	423	A 47 L	9/02
73	E 01 D	19/12	104.011-104.012	F 23 J		199	A 46 B	3/16	250.43-250.48	A 47 L	1/00		B 43 K	13/00
73.1	E 01 D	19/06	104.011	H 01 T	21/04	200	A 46 B	7/10		B 60 S	1/02	424-426	B 43 K	5/00
73.5	E 01 D	19/04	104.012	F 02 B	77/04	201	A 46 B	7/06	256.5-256.6	A 46 B	15/00	427-432	B 43 K	19/00
74	E 01 D	19/08	104.02	F 23 J	3/00	202	A 46 B	15/00		B 21 B	45/02	433-434	B 43 K	29/02
74.5	E 01 D	11/00		F 28 G	1/00	203	A 46 B	7/02		B 60 S	1/28	435	B 43 K	19/00
	E 01 D	2/00	104.03-104.05	B 08 B	9/00	204	A 46 B	3/12	257.01	A 46 B	17/00	436	B 43 K	3/04
75-76	E 01 D	19/02	104.03-104.063	B 08 B	1/00	205	A 46 B	3/18		A 47 G	29/08	437-444	B 43 K	3/00
77.1	E 01 D	21/00		B 08 B	7/00	206-207	A 46 B	11/00		A 47 L	23/14	445-446	B 43 K	1/00
77.3	E 01 D	19/02	104.04-104.063	F 16 L	45/00	206-207.2	A 46 B	3/18	257.05-257.06	A 47 L	13/56	447	B 43 K	1/02
78	E 01 D	1/00		F 16 L	55/00	207.2	A 46 D	1/00		B 43 L				
			104.061-104.063	B 08 B	9/04	208-219	A 47 K	7/02		B 44 D	3/12			
			104.066-104.069	F 23 J	3/00		A 47 L	1/06	257.07	B 43 L	25/00			
			104.07-104.19	B 08 B	1/00		A 47 L	13/10	257.072	B 43 L	25/04			
				B 08 B	7/00		A 47 L	23/04	257.073-257.076	B 43 L	25/00			
				B 08 B	9/00		A 47 L	25/00	257.1-257.9	A 47 L	13/52			
			104.07-104.2	F 16 L	45/00	208	A 47 L	17/08	258-259	A 47 L	23/28			
				F 28 G	3/00	210.5-219	A 47 L	17/08	260-263	A 47 L	13/14			
			104.095-104.096	F 16 L	55/00	220.1-220.2	A 47 L	1/00		A 47 L	13/58			
			104.31	B 08 B	1/00	220.3	A 47 L	1/15	264	A 47 J	47/18			
1.51-1.52	A 47 L	13/40		B 08 B	7/00		A 47 L	4/00		A 47 L	13/50	2.1	F 16 L	5/00
1.7	A 04 H	4/16		B 08 B	9/02	220.4-228	A 47 L	25/00	265-267	A 47 L	17/00		H 02 G	3/22
3	A 47 L	11/00		B 08 B	9/02	220.4	A 47 L	13/10	268	A 47 L	23/18	2.2	F 16 L	5/02
	A 47 L	23/00	104.32	F 16 L	45/00	221-228	A 47 L	17/08		A 46 B	17/02		H 01 B	17/26
	A 47 L	3/00		F 16 L	55/00		A 47 L	17/08		A 47 L	13/54	2.3	B 65 D	39/00
	B 08 B	7/00	104.33	B 08 B	1/00	221-229.1	A 47 K	7/02		A 47 L	21/06		F 16 L	5/00
	B 08 B			B 08 B	7/00		A 47 L	1/06	300.1	B 08 B	9/20	2.4	B 65 D	39/08
	D 06 F	15/00		B 08 B	9/02	229.1	A 47 L	13/20		B 08 B	9/46		B 65 D	39/10
	D 06 F	37/00	104.5-104.54	A 45 D	24/44		A 47 L	17/00		A 47 L	5/00	2.5	H 01 R	13/00
	D 06 F	39/00	104.8	A 46 B	17/08	229.11-229.13	A 47 L	13/10		A 47 L	9/00	4-11	A 47 G	27/04
3.1-3.21	A 01 K	43/00	104.9	A 47 L	13/42		A 47 L	13/10		B 08 B	5/00	12-15	A 47 G	27/06
	A 23 N	12/00		B 08 B	9/08	229.14	A 45 D	33/34	301-305	A 47 L	15/00	16-17.1	A 47 G	27/04
3.5-3.52	B 08 B	9/00		B 08 B	9/20		A 45 D			A 47 L	5/38	18A-18CG	B 60 B	33/00
	B 08 B	9/20	104.92-104.94	B 08 B	1/00	229.2-229.4	A 47 L	13/20		A 47 L	5/00	18R	A 47 L	9/00
3.53	B 43 L	19/00	105-105.5	A 47 L		229.2-229.9	A 47 K	7/02	306.1	A 47 L	9/00	19	B 60 B	33/04
4-21.2	A 63 B	47/04	105	E 04 F	21/165		A 47 L	1/06		A 47 L	5/00	20-23	B 60 B	33/00
	A 63 D	5/10	105.5	E 04 F	21/165		A 47 L	17/00		D 06 G	1/00	24-28	B 60 B	33/08
	B 60 S	3/00	105.51-105.52	B 25 F	1/00	229.5	A 47 L	13/252	307-309	A 47 L	15/00	29-31	B 60 B	33/00
4-29														

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
U.S. CLASS 16--Con.																	
43-48	A 47 B	91/00	222-223	E 05 D	11/00	444	H 01 M	2/10	219	D 01 G	19/00				C 10 G		21/00
	B 60 B	33/00	224	E 05 D	7/00	446	A 47 J	45/06	220-224	D 01 G	19/04	307			B 01 D		1/02
48.5	E 05 F	15/20	225-227	E 05 D	1/00				225-228	D 01 G	19/16				B 01 D		1/22
49	E 05 F	3/00	228	G 02 C	5/22				229-230	D 01 G	19/14	308R			B 01 J		6/00
50	E 05 F	3/20	229	E 05 D	7/10				231-232	D 01 G	19/04				C 01 F		11/32
	E 05 F	3/22	230-232	E 05 D	15/50					D 01 G	19/18	308S			C 01 B		17/02
51	E 05 F	3/04	233-234	E 05 D	7/00				233-234	D 01 G	19/04				C 01 B		17/033
52-53	E 05 F	3/10	235-238	E 05 D	7/04	.2-.22	D 01 G	31/00	235	D 01 G	19/16	313AS			B 01 J		2/16
52-55	E 05 F	3/22	239-241	E 05 D	7/06	.23-.24	D 01 G	23/00	236	D 01 H	5/00				C 01 B		33/32
54-55	E 05 F	3/20	242-249	E 05 D	7/04				237-241	D 01 H	5/32				C 11 D		3/08
56	E 05 F	3/00	250-251	E 05 D	11/00	.25-.26	D 01 G	31/00	242-243	D 01 H	5/00	313FB			B 01 J		2/16
57-58	E 05 F	3/14	252-253	E 05 D	5/02	.27	D 01 B	1/48	244	D 01 H	5/86				C 05 C		9/00
	E 05 F	3/22	254-258	E 05 D	7/12		D 06 F	58/00	245	D 01 H	5/60				F 26 B		3/08
59-67	E 05 F	3/00	254-267	E 05 D	7/10	.3-.64	D 01 G	1/00		D 01 H	5/86	313P			B 01 J		2/14
66-67	E 05 F	3/02	268-269	E 05 D	1/06	1	D 01 B	1/00	246-256	D 01 H	5/86				B 01 J		2/28
68	E 05 F	3/20	270-272	E 05 D	7/12	2	D 01 B	3/00	257	D 01 H	5/00				B 01 J		20/18
	E 05 F	3/22	273	E 05 D	11/00	3	D 01 B	7/00	258-261	D 01 H	5/74	313R			C 05 B		19/00
69-70	E 05 F	3/00	274	E 05 D	11/02	4	D 01 B	3/00	262-265	D 01 H	5/60				C 22 B		1/14
71	E 05 F	1/00	275-276	E 05 D	11/04	5A	D 01 B	1/14	266-268	D 01 H	5/46	314			C 01 B		31/14
72-80	E 05 F	1/08	277-279	E 05 F	1/08		D 01 B	1/32	269	D 01 H	5/48				C 09 C		1/58
73-80	E 05 F	1/10	280-285	E 05 F	1/14	5R	D 01 B	9/00	270-271	D 01 H	5/46				C 09 C		1/60
81	E 05 F	1/00	286-308	E 05 F	1/08		D 01 B	1/10	272	D 01 H	5/52						
82	E 05 F	5/02	309-318	E 05 F	1/02		D 01 B	1/14		D 01 H	5/54						
83	E 05 F	5/04	319-336	E 05 D	11/10		D 01 B	9/00	273-274	D 01 H	5/46						
84	E 05 F	3/00	337-342	E 05 C	17/64	6	D 01 B	1/10	275-276	D 01 H	5/48						
	E 05 F	5/10		E 05 D	11/08	7	D 01 B	1/10	277	D 01 H	5/50						
85	E 05 F	5/06	343-344	E 05 D	11/10		D 01 B	3/04	278	D 01 H	5/46						
86A-86R	E 05 F	5/02	345	E 05 D	15/30	8-32	D 01 B	1/10	279-282	D 01 H	5/50						
86C	E 05 C	17/22	346-353	E 05 D	11/10	33	D 01 B	1/28	283	D 01 H	5/48						
86R	E 05 F	5/00	354	E 05 D	7/00	34-38	D 01 B	1/10	284-285	D 01 H	5/46						
	E 05 F	5/06	355-356	E 05 D	1/04	39	D 01 B	1/04	286-292	D 01 H	5/72						
86.1	E 05 D	13/00	357-360	E 05 D	11/06		D 01 B	1/10		D 01 H	5/74						
	E 05 D	15/00	361	E 05 D	15/06	40-42	D 01 B	1/04	293	D 01 H	5/18						
86.2	E 05 D	15/58	362-363	E 05 D	15/00	43-47	D 01 B	1/06	294-295	D 01 H	5/56						
87B-87R	E 05 D	15/06	364	E 05 D	15/06	48A	D 01 B	1/04	296-308	D 01 G	25/00						
87R	B 61 D	19/00	365	E 05 D	7/00	48R	D 01 B	1/04		D 01 G	27/00						
	E 05 D	15/26	366	E 05 D	3/06		D 01 B	1/06									
87.2	E 05 D	15/00	367	E 05 D	3/10		D 01 B	1/08									
87.4R-93D	A 47 H	15/00	368-369	E 05 D	15/00	49-54	D 01 B	1/06									
87.4R	A 47 H	13/00	370	E 05 D	15/32			1/08									
	E 05 D	15/06	371	E 05 D	11/06	64.5	D 01 B	1/04									
	E 05 D	15/16	372	E 05 D	5/00		D 01 B	1/32	293A	B 01 J	35/10						
87.4W	A 47 H	1/04	373	E 05 D	7/00	65A	D 01 G	21/00		C 01 F	7/02						
87.6R	A 47 H	13/00	374-377	E 05 D	11/06	65CR	D 01 B	1/22		C 04 B	35/626						
	E 05 D	15/06	378-379	E 05 D	7/08		D 01 G	15/96	293R	B 01 J							
	E 05 D	15/16	380-381	E 05 D	5/12	65R	B 68 G	3/00		C 01 B	15/013						
87.6W	A 47 H	1/04	382-385	E 05 D	5/00		D 01 G	5/00		C 01 B	25/02						
87.8-92	E 05 D	15/00	385	E 05 D	9/00		D 01 G	9/00		C 09 C	1/56						
87.8	A 47 H	13/00	386	E 05 D	5/10	65T	D 01 B	1/24	293S	B 01 J	6/00						
93R	B 60 J	7/02	387-388	E 05 D	5/02	66CC	D 01 B	9/00		C 01 B	17/02						
	E 05 D	15/06	389-392	E 05 D	5/06	66R	D 01 G	29/00		C 01 B	17/027						
	E 06 B	3/46	400-401	E 05 F	3/00		D 01 H	13/30	294R	B 01 D	7/00						
94D-95DW	E 05 D	15/00	400	E 05 F	1/00	66T	D 01 B	1/24		B 01 D	7/02						
94D-96D	A 47 H	1/04	401	E 05 F	1/08	66.1	D 02 G	1/00	294S	C 01 B	17/02						
	A 47 H	15/00	402	A 47 B	95/04		D 04 G	1/06		C 01 B	17/027						
96L	E 05 D	15/00		E 05 B	17/00	66.2	D 02 G	1/14	295G	B 01 J	13/00						
		15/06	403	B 43 M	9/00	80A	D 01 B	1/00	295R	B 01 D	9/00						
96R	B 61 D	19/00	404-446	E 05 B	1/00	80R	D 01 B	1/00		C 13 K	1/10						
	E 06 B	3/46	404	A 47 G	1/10		D 01 G	7/00	295S	B 01 D	9/00						
97-107	A 47 H	15/00		E 05 B	5/00		D 01 G	9/00		C 01 D	3/06						
	E 05 D	15/16		E 05 B	7/00	81-97.5	D 01 B	1/00		C 01 D	5/00						
108-109	F 16 L	11/10		E 05 D	11/00	98	D 01 G	15/00	296-298	B 01 D	9/00						
	F 16 L	57/00		E 05 D	13/00	99-104	D 01 G	15/02	299	B 01 D	11/00						
110.1	A 47 B	95/02		E 05 D	9/00	105	D 01 G	15/40		B 01 D	9/00						
	A 47 J	45/00	405-446	A 45 C	13/22	106A	D 01 G	15/48	300	B 01 D	9/00						
	B 65 D	25/28		A 45 C	13/26	106R	D 01 G	15/36		C 30 B	17/00						
	E 05 B	1/00		A 45 C	3/00		D 01 G	15/46	301	C 30 B							
	E 05 B	7/00		A 45 C	7/00		D 01 G	31/00	302A	B 01 D	9/00						
111.1	A 47 B	95/02		A 45 F	5/10	107-111	D 01 G	15/76		C 01 B	11/18						
	A 47 J	45/00		A 47 J	45/00	112-113	D 01 G	15/12		C 01 C	1/24						