

**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 84--Con.</b>														
631	G 10 H	1/10	741-742	G 10 H	3/12	49	D 04 C	3/48	41.01	F 41 G	3/00	183-186	F 41 A	
632	G 10 H	1/02	741	G 10 H	1/46	50-51	D 04 C	3/02	41.02	F 41 A	27/00		F 41 C	
633	G 10 H	1/46	742	G 10 H	1/18	52	D 04 C	1/00		F 41 G	5/00		F 41 F	
	H 03 G	3/00	743-744	G 10 H	1/32		D 04 C	7/00	41.03	F 41 G	3/08	183	F 41 A	3/40
634	G 10 H	1/36	743-746	G 10 H	3/00	53	D 04 G	1/08		F 41 G	3/12	184	F 41 A	3/32
635	G 10 H	1/40	745	G 10 H	1/34		D 04 G		41.04	F 41 A	27/00	185	F 41 A	3/26
637	G 10 H	1/38	746	G 10 H	1/32	54	D 04 C	3/48	41.05-41.07	F 41 G	5/06	186	F 41 A	3/34
638	G 10 H	1/28				55-57	D 04 C	3/14	41.06	F 41 G	1/32	187.01-187.02	F 41 A	3/00
639-640	G 10 H	3/06				58-60	D 04 C	7/00	41.07	F 41 G	5/08	188	F 41 A	3/26
641	G 10 H	3/08				61	B 21 D	49/00	41.08	F 41 G	5/12		F 41 A	
642	G 10 H	3/09				62	D 04 C		41.09	F 41 G	5/14		F 41 C	
643	G 10 H	3/10					D 04 C		41.11	F 41 G	3/10		F 41 F	
644	G 10 H	1/32					D 04 C	3/36	41.12	F 41 G	5/04	189	F 41 A	3/00
645	G 10 H	7/00							41.13	F 41 G	3/04	190	F 41 A	3/40
646	G 10 H	1/18							41.14-41.15	F 41 G	5/20		F 41 A	
647	G 10 H	5/00							41.16	F 41 G	5/02		F 41 C	
648	G 10 H	5/06							41.17-41.19	F 41 G	1/00		F 41 F	
649-650	G 10 H	5/00							41.21-41.22	F 41 G	5/18	191.01-191.02	F 41 A	5/00
649	A 63 H	5/00							42.01-44.02	F 41 A	25/00	192	F 41 A	5/18
	G 10 H	1/26							42.02	F 41 A	23/00		F 41 A	
650	G 10 H	1/36							45-47	F 41 A	9/00		F 41 C	
651	G 10 H	1/40							45	F 41 A	9/16		F 41 F	
652-658	G 10 H	5/00								F 42 B		193	F 41 A	5/00
653	H 04 Q	1/18							47	F 41 A	15/00	194-195	F 41 F	
655	H 04 J	3/00								F 41 A	9/39	194-199	F 41 A	
656	G 10 H	1/22							125	F 41 A	3/00		F 41 C	
657	H 02 M	5/00								F 41 F	1/00	194	F 41 A	3/54
658	G 01 P	3/00							126	F 41 F	1/10	195	F 41 A	17/38
659	G 10 H	5/02							127-128	F 41 A		196	F 41 A	3/86
660-675	G 10 H	5/00								F 41 C	27/00	197-199	F 41 F	
660	G 10 H	1/08								F 41 F	1/00	197	F 41 A	3/82
661	G 10 H	1/12							127	F 41 A	19/21	198	F 41 A	3/78
	H 03 H	7/01							128	F 41 A	11/02	199	F 41 A	3/82
662-663	G 10 H	1/02							129.01-129.02	F 41 A	19/02	200-206	F 41 G	5/00
664	G 10 H	1/10								F 41 A	19/67			
665	G 10 H	1/46							130-131	F 41 A	19/00			
666	G 10 H	1/36							132	F 41 A	19/31			
667-668	G 10 H	1/40								F 41 A				
669	G 10 H	1/38								F 41 F	1/00			
670	G 10 H	1/32							133	F 41 A	19/05			
671	G 10 H	1/00							134-138	F 41 A				
	H 03 B									F 41 C				
675	G 10 H	5/06								F 41 F				
	H 03 B								134	F 41 A	17/08			
676	G 10 H	5/04							135-138	F 41 A	19/64	4A-4R	B 66 F	7/18
677-717	G 10 H	5/00							136-138	F 41 A	19/31	4A	B 66 F	3/24
678	G 10 H	1/18							137	F 41 A	17/36		B 66 F	3/25
	G 10 H	1/38							138	F 41 A	17/38	4R	E 21 B	33/035
	H 04 Q								139-147	F 41 A	5/00		F 15 B	11/072
682	H 04 J	3/00								F 41 A	9/01	5	F 15 B	21/00
684	G 10 H	1/22								F 41 A	9/38	6-8	F 01 B	25/02
685	G 10 H	1/20								F 41 C	3/00	6.5	F 01 B	1/00
686	G 10 H	1/24								F 41 C	7/00		F 01 B	13/04
687	G 01 P	3/00							148-179	F 41 A			F 01 B	3/00
688	G 01 P	3/42								F 41 C		9	F 01 B	29/04
689	G 01 P	3/483							148	F 41 F		10	F 01 B	25/04
690	G 01 P	3/42							149-150	F 41 A	17/74	11	F 01 B	29/04
691	H 03 F	1/26							151	F 41 A	19/31	12-15	F 01 L	29/06
692	G 10 H	1/06							152	F 41 A	19/28	16	F 01 B	25/02
694-696	G 10 H	1/04							153	F 41 A	3/40	17	F 01 B	25/06
694	A 63 J	17/00							154	F 41 A	3/38	18	F 01 B	25/04
	H 03 C								154	F 41 A	3/26	19-21	F 01 B	25/02
695	H 03 C	1/00							155	F 41 A	9/27	22-27	F 15 B	15/22
696	H 03 C	3/00							156-157	F 41 A	5/24	28-33	F 15 B	13/04
697-698	G 10 H	1/08							157	F 41 C	3/14	34	F 01 B	29/04
699-700	G 10 H	1/12							158	F 41 A	9/28	35-40	F 15 B	21/02
701-707	G 10 H	1/02							159	F 41 A	5/30	41-45	F 15 B	15/26
708	G 10 H	1/10							160	F 41 A	1/10	46	F 01 B	31/10
709	G 10 H	1/30								F 41 F	1/10	47-49	F 15 B	13/02
710	G 10 H	1/02							161	F 41 A	5/16	50	F 01 L	15/02
711	G 10 H	1/46							162	F 41 A	3/40	51-52	F 15 B	13/02
712	G 10 H	1/36							163	F 41 A	5/04	53	F 02 N	7/00
713	G 10 H	1/40							164	F 41 A	3/26	54	F 01 B	29/04
715	G 10 H	1/38							165	F 41 A	3/66	55	F 01 B	23/00
716	G 10 H	1/28							166	F 41 A	3/26	59	F 01 C	20/24
717	G 10 H	1/30							167	F 41 A	3/10	61	F 01 B	13/00
718-719	G 10 H	1/32							168	F 41 A	3/40	151-156	F 01 B	1/00
720	G 10 H	1/34							169	F 41 A	5/08	151	F 04 B	19/14
721	G 10 H	1/32							170	F 41 A	3/44	157-158	F 01 L	15/14
722	G 10 H	1/18							171	F 41 A	3/32	159-166	F 01 B	1/00
723	G 10 H	3/00							172	F 41 A	3/26	167A	F 15 B	11/18
724	G 10 H	3/06							173	F 41 A	3/46		F 15 B	15/12
725	G 10 H	3/14							174	F 41 A	3/26	167R	F 15 B	11/12
726	G 10 H	3/18							175	F 41 A	3/50		F 15 B	15/16
727-728	G 10 H	3/14							176	F 41 A	3/38		F 15 B	15/24
729	G 10 H	3/16							177	F 41 A	25/06	168	F 15 B	11/18
730	G 10 H	3/14							178	F 41 A	3/82	169	F 01 B	7/20
731	G 10 H	3/18							179	F 41 A	5/24	170MP	E 21 D	23/16
732	G 10 H	3/16							180	F 41 A	3/00		E 21 D	23/18
733-734	G 10 H	3/14							181	F 41 A	3/40		E 21 D	23/26
733	G 10 H	3/10								F 41 A		170R	F 01 B	1/00
735	G 10 H	1/06								F 41 C			F 01 B	7/00
736	G 10 H	1/12								F 41 F		171	F 01 B	25/04
737-740	G 10 H	1/02							182	F 41 A	3/00		F 15 B	11/22

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U.S.			IPC			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	Subclass	Subclass	Notation	Subclass	Subclass	Notation	
<b>U.S. CLASS 91--Con.</b>																								
172	F 01 B	1/00	333	F 01 B	25/06	7	F 01 B	31/00																
173	F 01 B	7/20	334	F 01 L	29/00	8-12	F 15 B	15/22	165PR	F 15 B	15/22													
174	F 01 B	1/08	335	F 01 L	15/14	12.1	F 01 B	1/06		F 16 J	15/18													
176	F 01 B	15/00	336	F 01 B	25/06		F 01 B	13/06	165R	F 16 J	15/18													
177	F 01 C	9/00	337	F 01 L	31/08	12.2	F 01 B	13/04	166-168	F 16 J	15/18													
178	F 01 L	15/00	338	F 01 L	31/02		F 01 B	3/00	169.1-171.1	F 01 B	11/02													
179	F 01 L	33/04	339-340	F 01 C	9/00	13	F 01 B	31/14		F 16 J	10/00													
180	F 01 L	33/02			23/00		F 01 B	9/02	172	F 16 J	1/00													
181	F 01 B	7/04	344-347	F 01 L	31/02		F 15 B	15/24	173-174	F 01 B	31/00													
182	F 01 L	15/00	348	F 01 L	31/00	13.1	F 01 B	31/14	175	F 16 J	1/00													
	F 01 L	33/00	349	F 01 L	31/18		F 15 B	15/24	176	F 01 B	31/08													
183	F 01 B	1/00	350-351	F 01 L	31/00	13.2	F 01 B	19/00	177	F 16 J	1/00													
184	F 01 L	21/02	352	F 01 L	31/18		F 01 B	31/14	178	F 16 J	1/02													
185	F 01 L	15/00	353-354	F 01 L	31/00		F 15 B	15/24	179	F 16 J	1/14													
	F 01 L	33/00	355-356	F 15 B	11/15	13.3-13.8	F 01 B	31/14			31/00													
186	F 01 B	1/00	357	F 15 B	9/02		F 15 B	15/24	186	F 01 B	31/08													
187	F 01 L	31/00	358A	E 02 F	3/43	14	F 15 B	15/22	187-191	F 16 J	1/14													
188-195	F 01 L	15/00		F 15 B	13/042	15-20	F 15 B	15/26	192	F 16 J	9/00													
	F 01 L	33/00		F 15 B	21/08	21MR	F 15 B	15/26	193-207	F 16 J	1/06													
196	F 01 B	15/00			13/16	21R	F 15 B	15/26	208-239	F 16 J	1/04													
197	F 01 B	13/00	358R	B 62 D	5/06	22-28	F 15 B	15/26	240-246	F 16 J	9/00													
206-209	F 01 B	15/00		F 15 B	11/08	29	F 01 B	9/00	247	F 16 J	9/08													
210	F 01 B	15/04	360	F 15 B	20/00	30	F 16 J	1/00	248-254	F 16 J	9/00													
211-215	F 01 B	15/06	361-362	F 15 B	13/16	31-33	F 01 B	3/00	255-260	F 16 J	1/00													
216A	B 64 C	13/00	363A	F 15 B	18/00	34-47	F 01 B	19/00	261	F 02 F	7/00													
	B 64 C	13/24		F 15 B	20/00		F 16 J	3/00																
216B	F 15 B	9/10		G 05 D	1/00	48-50	F 01 B	19/00																
	B 06 B	1/18	363R	F 15 B	9/03	51-53	F 01 B	7/20																
	E 02 D	7/10		F 15 B	9/09	54-55	F 01 B	13/00																
	F 01 L	21/02	364-367	F 15 B	13/16	56-57	F 01 B	13/04																
216R	B 23 Q	5/26	368-380	F 15 B	9/10	58	F 01 B	13/06																
	B 60 T	13/14	381	F 15 B	9/12	58.1	F 01 B	31/00	1	B 01 D	46/46													
	B 60 T	13/52	382-384	F 15 B	9/10	59	F 01 B	29/04	2-7	B 03 C	3/00													
217	F 01 B	15/02	385-390	F 15 B	13/16	60-60.5	F 01 B	31/14	8-13	B 01 D	53/30													
218	F 01 L	15/00	391A-391R	B 60 T	13/14	61	F 01 B	1/02	8-24	B 01 D	46/46													
	F 01 L	21/00		B 60 T	13/16	62-63	F 01 B	7/00	25-27	B 01 D	46/30													
219	F 01 L	31/00		B 60 T	13/24	64	F 01 B	21/02	27-28	B 03 C	1/00													
220	F 01 B	25/04	392	F 15 B	15/20	65	F 01 B	7/10	29	B 01 D	51/08													
221	F 01 B	25/06	393	F 15 B	21/10	66	F 01 B	15/00	30	B 01 D	19/00													
222	F 01 L	21/04	394-396	F 15 B	15/22	67	F 01 C	9/00	31-33	B 01 D	53/00													
223	F 01 C	9/00	397-398	F 15 B	13/04	68	F 01 B	7/04		B 01 D	59/00													
224	F 01 L	15/12	399-402	F 15 B	15/22	69A	F 01 B	3/00	34-35	B 01 D	53/24													
225	F 01 L	25/04	403-404	F 15 B	13/04	69B	F 01 B	7/14		B 01 D	59/20													
226	F 01 L	21/04	405-409	F 15 B	15/22	69R	F 01 B	7/12	36-38	B 01 D	47/00													
227	F 01 L	21/02	410	F 15 B	13/04		F 02 B	75/28	39-42	B 01 D	53/00													
228-229	F 01 L	21/04	415-416	F 15 B	15/17		F 15 B	15/08	43-56	B 01 D	53/22													
230-231	F 01 B	1/00	417A	B 25 C	1/00	70-71	F 01 B	3/00		B 01 D	59/12													
232-234	F 01 L	21/02		B 25 C	1/04	72	F 01 B	1/00	57-70	B 03 C	3/00													
235	F 01 B	7/18		B 25 C	5/16	73-74	F 01 B	1/02	63-70	B 03 C	3/14													
236	F 01 L	15/00	417R	B 63 H	20/12	75	F 01 B	7/02	71-72	B 03 C	3/16													
237-238	F 01 L	15/14		F 15 B	15/17	76	F 01 B	1/00	73	B 03 C	3/00													
239	F 01 L	15/00		H 01 H	33/34	77	F 01 B	29/00	74-76	B 03 C	3/74													
240	F 01 L	25/02	418-432	F 15 B	11/08	78-83	F 15 B	21/04	77	B 03 C	3/10													
241-242	F 01 L	25/04		F 15 B	13/04	84	F 16 J	1/10	78-81	B 03 C	3/00													
243	F 01 L	21/02	433	F 15 B	11/10	85A	B 29 D	30/26	82-106	B 01 D	53/02													
244	F 01 L	15/14	434	F 15 B	13/14		B 60 H	1/00	82-89	B 01 D	53/14													
245	F 01 L	1/20	435	F 15 B	11/04		B 64 D	29/08	90-149	B 01 D	59/26													
246	F 01 L	15/14	436-458	F 15 B	11/08		B 25 D	9/12	92-94	B 01 D	47/00													
247	F 01 L	31/00		F 15 B	13/04		F 15 B	15/14	107	B 01 D	53/06													
248	F 01 L	25/08	442	F 01 B	3/00		F 15 B	15/22	108-109	B 01 D	53/12													
249-253	F 01 L	31/00	459	F 15 B	13/044		B 25 C	1/04	110-113	B 01 D	53/06													
254	F 01 L	31/02	460	F 15 B	17/02		F 01 B	11/02	114-148	B 01 D	53/02													
255-256	F 01 L	31/00	461-470	F 15 B	11/08		F 15 B	15/22	149-154	B 01 D	53/14													
257	F 01 L	31/18		F 15 B	13/04		F 01 B	31/00	149	B 01 D	47/00													
258-259	F 01 L	31/00	471	A 01 H	5/02		F 01 B	29/00	150	B 01 D	47/04													
260	F 01 L	31/02		F 01 B			F 01 B	19/00	151-154	B 01 D	47/00													
261	F 01 L	31/06		F 04 C			F 16 J	3/00	155	B 01 D	19/04													
262	F 01 L	31/16		F 15 B			F 01 B	31/00	156	B 01 D	19/00													
263	F 01 L	25/02	472-490	F 01 B	13/04		F 01 B	3/00	157	B 01 D	19/02													
264-265	F 01 L	15/14	473-490	F 01 B	1/00		F 16 J	1/10	158-186	B 01 D	19/00													
266	F 01 C	9/00		F 01 B	3/00		A 47 B	51/00	158-213	B 01 D	53/14													
267-268	F 01 L	15/14	491-498	F 01 B	1/06		B 23 Q	1/58	187-210	B 01 D	47/00													
269	F 01 L	31/02		F 01 B	13/0																			