

# 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 445--Con.</b>																	
17-21	H 01 J	9/38	88	A 63 H	27/00	287-288	A 63 H	17/25	454	A 63 H	30/00	60-63	B 24 B	1/00			
22-24	H 01 J	9/00	89-92	A 63 H	33/04	289-294	A 63 H	11/10	455	A 63 H	30/02		B 24 B	7/19			
22	H 01 J	9/20	93-96	A 63 H	17/00		A 63 H	13/00	456	A 63 H	30/04		B 24 B	7/30			
23-24	H 01 J	9/24	97	A 63 H	3/16	295	A 63 H	3/00	457-458	A 63 H	29/00	64-73	B 24 B	7/00			
25	H 01 J	9/26	98	A 63 H	3/08	296	A 63 H	13/02	459	A 63 H	29/18		B 24 B	9/00			
	H 01 J	9/32	99-101	A 63 H	3/16	297-303	A 63 H	3/28	460	A 63 H	17/36	74	B 24 B	19/00			
26-29	H 01 J	9/00	102-104	A 63 H	33/12	304-306	A 63 H	3/24	461	A 63 H	29/24	75	B 24 C	3/00			
26	H 05 B	33/10	105-110	A 63 H	33/08	307	A 63 H	13/14	462	A 63 H	29/02	76	B 24 C	3/32			
30	H 01 J	9/236	111-113	A 63 H	33/00	308	A 63 H	13/10		A 63 H	29/22	77	B 24 C	3/34			
31	H 01 J	9/00	114-116	A 63 H	33/08	309	A 63 H	11/06	463	A 63 H	29/24	78-79	B 24 C	3/32			
32	H 01 J	9/04	117	A 63 H	33/04	310	A 63 H	13/16	464	A 63 H	29/00	80-83	B 24 C	3/08			
33	H 01 J	9/18	118	A 63 H	33/06	311-312	A 63 H	11/06	465	A 63 H	17/00		B 24 C	3/18			
34	H 01 J	9/12	119	A 63 H	33/10	313	A 63 H	3/00	466	A 63 H	17/26	84	B 24 C	3/20			
35	H 01 J	9/02	120-121	A 63 H	33/06	314-315	A 63 H	11/04	467	A 63 H	19/02	85	B 24 C	3/26			
36	H 01 J	9/12	122-123	A 63 H	33/12	316	A 63 H	15/02	468	A 63 H	17/36	86	B 24 C	3/30			
37	H 01 J	9/236	124-128	A 63 H	33/08	317	A 63 H	7/00	469-471	A 63 H	17/26	87-89	B 24 C	9/00			
38-42	H 01 J	9/38	129-139	A 63 H	33/26	318	A 63 H	13/04	472-483	A 63 H	33/30	90	B 24 C	3/00			
43	H 01 J	9/00	140	A 63 H	33/00	319	A 63 H	3/44	476-482	A 63 H	3/52		B 24 C	5/04			
44-45	H 01 J	9/26	141-145	A 63 H	33/30	320	A 63 H	3/36	483	A 63 H	17/44	91	B 24 C	5/00			
46	H 01 J	9/00	146	A 63 H	13/15	321	A 63 H	3/12	484	A 63 H	29/22	92	B 24 C	3/06			
47	H 01 J	9/12	147-152	A 63 H	33/38	322-323	A 63 H	13/12	485	A 63 H	33/26	93	B 24 C	5/08			
48	H 01 J	9/04	153	A 63 H	23/00		A 63 H	3/18	486-491	A 63 H	33/00	94	B 24 C	5/06			
49-51	H 01 J	9/12	154-155	A 63 H	23/04	324	A 63 H	11/08				95-96	B 24 C	5/06			
49	H 01 J	9/14		A 63 H	30/00	325-326	A 63 H	13/18					B 24 C	7/00			
50-51	H 01 J	9/04	156-159	A 63 H	23/00		A 63 H	15/06				97-98	B 24 C	5/06			
52	H 01 J	9/14	160-161	A 63 H	23/02	327-329	A 63 H	3/14				99-100	B 24 C	7/00			
53-54	H 01 J	9/38	162	A 63 H	23/04	330	A 63 H	11/00					B 24 C	9/00			
55	H 01 J	9/39	163	A 63 H	23/06		A 63 H	13/00	1-2	A 01 K	51/00		B 24 C	7/00			
56	H 01 J	9/385	164-165	A 63 H	23/04		A 63 H	3/20	3-4	A 01 K	47/00	101	B 24 C	5/04			
57	H 01 J	9/39	166-167	A 63 H	29/10	331	A 63 J	19/00	5	A 01 K	59/00	102	B 24 C	5/04			
58	H 01 J	9/00	168-174	A 63 H	29/08	332	A 63 H	11/00	6	A 01 K	47/00	103-112	B 24 B	31/00			
59	H 01 J	9/38	175	A 63 H	30/00	333	A 63 H	13/02	7	A 01 K	57/00	113	B 24 B	19/00			
	H 01 T	21/04	176	A 63 H	29/10	334-335	A 63 H	13/06	8	A 01 K	49/00	114	B 24 B	15/00			
60	H 01 J	9/00		A 63 H	33/40	336-339	A 63 H	13/02	9-11	A 01 K	53/00	115-118	B 23 C	3/05			
	H 05 B	33/10	177	A 63 H	11/06	337-339	A 63 H	3/36	12	A 01 K	47/00		B 24 B	15/02			
61	H 01 J	9/50		A 63 H		340	A 63 H	3/20	13-14	A 01 K	47/06	119-133	B 24 B	7/00			
62	H 01 J	9/00	178-180	A 63 H	33/40	341-350	A 63 H	3/40	15-17	A 01 K	47/00		B 24 B	9/00			
	H 05 B	33/10	181-182	A 63 H	5/00		A 63 H	3/48	18-25	A 01 K	47/06	134	B 24 B	5/00			
63	H 01 J	9/42	183	A 63 H	3/06	351	A 63 H	13/00	26-27	A 01 K	47/00	135-139	B 24 B	7/00			
64	H 01 J	9/44	184-185	A 63 H	3/28	352-353	A 63 H	11/00	28	A 01 K	49/00		B 24 B	9/00			
65-66	H 01 J	9/46	186	A 63 H	29/10	354	A 63 H	13/00	29-41	A 01 K	47/00	140	B 24 B	5/00			
	H 05 B	33/10	187	A 63 H	27/26	355-356	A 63 H	7/00	42-45	A 01 K	47/02		B 24 B	5/18			
67	H 01 J	9/00	188-196	A 63 H	3/31	357-358	A 63 H	13/00	46	A 01 K	47/00	141	B 24 B	3/00			
68	H 01 J	9/236		A 63 H	5/00	359-361	A 63 H	3/20	47	A 01 K	51/00		B 24 B	5/18			
69	H 01 J	9/36	197	A 63 H	29/10	362-367	A 63 J	19/00	48	A 01 K	53/00	142	B 24 B	5/00			
70	H 01 J	9/38	198-201	A 63 H	13/00	368	A 63 H	3/00	49	A 01 K	51/00	143-145	B 24 B	37/00			
71	H 01 J	9/46	202	A 63 H	33/40	369-372	A 63 H	3/02	50	A 01 K	57/00		B 24 B	5/00			
	H 01 J	9/48	203-209	A 63 H	5/00	373	A 63 H	3/36	51-53	A 01 K	59/00	146	B 24 B	3/46			
72	H 01 J	9/42	210	A 63 H	33/40	374	A 63 H	3/04	54-55	A 01 K	59/02	147-148	B 23 F	19/05			
	H 01 J	9/44	211-212	A 63 H	27/26	375-376	A 63 H	3/46	56-59	A 01 K	51/00		B 24 B	5/00			
73	H 01 J	9/38	213-216	A 63 H	5/00	377	A 63 H	7/00	60	A 01 K	47/04	149	B 24 B	5/00			
			217-218	A 63 H	33/40	378-384	A 63 H	3/46	61-62	A 01 K	57/00	150-172	B 24 B	7/00			
			219	A 63 H	33/22	385-386	A 63 H	3/36	63	A 01 K	59/02		B 24 B	9/00			
			220-226	A 63 H	3/06	387-388	A 63 H	3/08	64	A 01 K	57/00	173	B 24 B	5/00			
			227	A 63 H	33/00		A 63 H	3/10				174-188	B 24 B	7/00			
			228-229	A 63 H	21/02	389	A 63 H	3/38				189	B 24 B	5/18			
			230-232	A 63 H	27/00	390-391	A 63 H	3/36				190-208	B 24 B	7/00			
			233	A 63 H	1/00	392	A 63 H	3/38	1-6	A 41 C	3/00		B 24 B	9/00			
1-2	A 63 H	33/04	234-235	A 63 H	1/20	393-394	A 63 H	3/44	7-16	A 41 C	1/06	209-210	B 24 B	5/00			
3	A 63 H	11/02	236-238	A 63 H	1/00	395	A 63 H	3/36	17	A 41 C	3/02	211-225	B 24 B	3/00			
4-5	A 63 H	33/00	239-240	A 63 H	1/02	396	A 63 H	13/18	18-27	A 41 C	1/06		B 24 B	5/00			
6	A 63 H	17/02	241	A 63 H	1/06		A 63 H	15/06	28-35	A 41 C	3/08	226	B 24 B	7/00			
7	A 45 C	1/12	242	A 63 H	1/24	397-404	A 63 H	5/00	36	A 41 C	3/04		B 24 B	9/00			
8-13	A 63 H	33/00		A 63 H	1/28	405-407	A 63 H	5/04	37-40	A 41 C	3/00	227-228	B 24 B	5/00			
14	A 63 H	33/28	243-245	A 63 H	1/22	408	A 63 H	3/52	41-53	A 41 C	1/14	229-230	B 24 B	3/00			
15-21	A 63 H	33/38	246-249	A 63 H	1/06		A 63 H	33/30	54-57	A 41 C	3/10		B 24 B	5/00			
22	A 63 H	17/045	250-251	A 63 H	1/30	409	A 63 H	17/34	58	A 41 C	3/02	231-241	B 24 B	7/00			
23	A 63 H	33/28	252	A 63 H	1/28		A 63 H	5/00	59-87	A 41 C	3/00		B 24 B	9/00			
24	A 63 H	19/14	253-254	A 63 H	1/32	410	A 63 H	19/14	88	A 41 C	3/06	242-245	B 24 B	5/00			
25	A 63 H	33/00	255	A 63 H	27/127	411-413	A 63 H	33/02	89-93	A 41 C	3/00		B 24 B	5/18			
26-29	A 63 H	27/04	256	A 63 H	1/00	414-422	A 63 H	5/00	94-96	A 41 C	1/00	246	B 24 B	3/00			
30-33	A 63 H	27/00	257	A 63 H	1/18	414											