

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 440--Con.														
89A	F 16 C	35/077	89	B 63 C	9/20		D 04 H	5/02	227	B 32 B	5/16	324-325	D 04 H	1/08
89B	B 63 H	21/32	90-95	B 63 C	9/125	52	D 04 H	13/00	228-231	D 03 D	15/00	325	B 32 B	5/16
	F 01 N	3/04		B 63 C	9/15		D 04 H	3/00	232-236	B 32 B	15/14	326	B 32 B	5/02
89C	B 63 H	21/32	96-101	B 63 C	9/00	53	B 32 B	15/12	236	B 32 B	15/08		B 32 B	5/26
	F 01 N	3/04	102-124	B 63 C	9/08		B 32 B	29/02	237	B 32 B	15/02		B 32 B	9/02
	F 01 N	3/20	125	B 63 C	9/28		B 32 B	5/26		B 32 B	15/16	327-344	D 04 H	1/00
89D	F 01 N	3/04	126-128	B 63 C	9/30	54	D 04 H	1/00	238	B 32 B	15/14		D 04 H	13/00
89E	B 63 B	35/73	129-131	B 63 C	9/28		D 04 H	13/00	239-255	B 32 B	5/26		D 04 H	3/00
	F 01 N	13/00	129-132	B 63 C	9/08		D 04 H	3/00	248-249	B 32 B	27/04		D 04 H	5/00
89F	B 63 H	21/32	133	B 63 B	22/00	55-56	B 32 B	5/24	250	B 32 B	25/02	345-346	B 32 B	5/26
	F 01 N	13/00		B 63 B	51/02	55	B 32 B	17/06	251	B 32 B	27/04	347-349	D 04 H	1/00
89G	B 63 H	21/34	134	B 63 B	35/00		B 32 B	5/18	252	B 32 B	27/42		D 04 H	13/00
89H	F 01 N	13/00	135	B 63 C	11/00	57	B 32 B	5/26	253	B 32 B	27/38		D 04 H	3/00
	F 01 N	3/04	136	A 47 G	33/12	58	B 32 B	27/04	254	B 32 B	27/04	350	D 04 H	1/54
	F 01 N	3/28		B 63 B	35/85		B 32 B	5/12	256	B 32 B	13/02		D 04 H	3/14
89J	B 63 H	21/32		B 63 C		59-60	B 32 B	5/02		B 32 B	13/14		D 04 H	5/06
	F 01 N	1/08				59	B 32 B	3/00	257	B 32 B	21/10	351-357	D 04 H	1/00
	F 01 N	13/00				60	B 32 B	9/00	258	B 32 B	11/02		D 04 H	13/00
89R	B 63 H	21/00				61	B 32 B	5/08	259	B 32 B	11/10		D 04 H	3/00
90	B 63 H	1/04				62	B 32 B	3/02		B 32 B	25/02		D 04 H	5/00
	B 63 H	5/02				62-67	B 32 B	3/10	260	B 32 B	25/10	358	B 32 B	27/02
91	B 63 H	1/04					B 32 B	27/04	261	B 32 B	29/02		B 32 B	5/26
	B 63 H	5/03	1	D 03 D	19/00		B 32 B	27/12	262	B 32 B	27/12	359-360	D 04 H	1/06
92	B 63 H	1/06		D 03 D	9/00		B 32 B	5/02	262-264	B 32 B	5/26	361-365	D 04 H	1/00
93	B 63 H	1/08		D 04 B	1/00	62	B 32 B	29/00	262	B 32 B	18/00		D 04 H	13/00
94	B 63 H	1/04		D 04 B	21/00	68-70	B 32 B	5/16	263-267	B 32 B	7/12		D 04 H	3/00
95-97	B 63 H	1/34		D 04 C	1/00	68	B 32 B	27/20	265	B 32 B	18/00		D 04 H	5/00
98-100	B 63 H	1/38		D 04 G	1/00	69	B 32 B	27/14	266	B 32 B	17/02	365	B 32 B	5/16
101-103	B 63 H	16/04		D 04 H	1/00	70	B 32 B	27/20	267	B 32 B	5/16	366-369	D 04 H	1/74
	B 63 H	16/10	2	D 03 D	15/00	71	B 32 B	27/04	268	B 32 B	5/26		D 04 H	3/05
104-109	B 63 H	16/00	3-6	D 03 D	19/00		B 32 B	27/12	269	B 32 B	5/08	370-375	B 32 B	5/18
110	B 63 H	16/04		D 03 D	9/00		B 32 B	5/02	270-275	B 32 B	5/06	370	B 32 B	5/24
111	B 63 H	21/30		B 32 B	15/01	72-75	B 32 B	5/16	274	B 32 B	5/08	371	B 32 B	5/14
112	B 63 H	23/36	7	B 32 B	15/02	72	B 32 B	27/20	275-278	B 32 B	5/26	372-375	B 32 B	5/24
113	B 63 H	19/00	8	B 32 B	15/08	73	B 32 B	27/14	276	B 32 B	7/08	376-377	D 04 H	1/00
			9	B 32 B	5/18	74	B 32 B	27/20	277	B 32 B	29/00		D 04 H	13/00
				B 32 B	5/24	75	B 32 B	27/14	279	B 32 B	13/02		D 04 H	3/00
			10-11	B 32 B	15/14	76-77	B 32 B	5/18		B 32 B	13/14		D 04 H	5/00
			10-12	B 32 B	5/26		B 32 B	5/22	280	B 32 B	25/02	376	B 32 B	15/14
			12	B 32 B	15/12	78-129	B 32 B	27/04	281	B 32 B	25/10	378-379	B 32 B	15/14
			13-14	B 32 B	15/14		B 32 B	27/12	282	B 32 B	27/04	380	B 32 B	15/02
1	B 63 B	22/00	15	B 32 B	15/06	78-136	B 32 B	5/02	283-285	B 32 B	27/12	381-384	B 32 B	5/26
2	B 63 B	22/06	16	B 32 B	15/01	130	B 32 B	27/00	284-285	B 32 B	5/16	383	B 32 B	5/06
3-5	B 63 B	22/02	17	B 32 B	15/04	131-136	B 32 B	27/04	286-292	B 32 B	27/12	384	B 32 B	7/08
6	B 63 B	22/16	18	B 32 B	13/06		B 32 B	27/12	287	B 32 B	27/36	385	B 32 B	21/02
7	B 63 B	22/08	19	B 32 B	15/04	137	B 32 B	19/02	288	B 32 B	27/30		B 32 B	21/10
8	B 63 B	22/10	20	B 32 B	17/06	138-152	B 32 B	5/02	289-290	B 32 B	27/32	386	B 32 B	13/02
9	B 63 B	22/12	21	D 03 D	15/00	138	B 32 B	27/24	291	B 32 B	27/34		B 32 B	13/14
10	B 63 B	22/14	22	D 03 D	19/00	139-151	B 32 B	27/04	292	B 32 B	25/10	387-390	B 32 B	5/06
11-20	B 63 B	22/00	23	B 32 B	17/02	153	B 32 B	27/12	293	B 32 B	27/32	387-393	B 32 B	5/26
	B 63 B	51/02	24-26	B 32 B	5/24	154	B 32 B	27/04	294	B 32 B	27/34	387	B 32 B	7/08
11	B 63 B	45/00		B 32 B	15/14	155-163	B 32 B	9/04	295	B 32 B	25/10	392	B 32 B	27/02
12	B 63 B	45/08		B 32 B	17/02	155	B 32 B	27/30	296	B 32 B	27/12	393	B 32 B	5/16
13-20	B 63 B	45/00		B 32 B	17/06	156-163	B 32 B	5/02	297-300	B 32 B	5/16	394-398	B 32 B	27/12
21-27	B 63 B	22/18		B 32 B	5/18	156	B 32 B	27/38	297	B 32 B	21/10	395	B 32 B	27/36
28-29	B 63 B	22/20		B 32 B	15/04	157	B 32 B	27/38	298	B 32 B	29/02	396	B 32 B	27/30
30-31	B 63 B	22/22		B 32 B	17/12	158	B 32 B	27/34	299	B 32 B	19/06	397-398	B 32 B	27/32
32	B 63 B	22/24		B 32 B	15/04	159	B 32 B	27/04	300	B 32 B	29/02	399	B 32 B	25/10
33-34	B 63 B	22/26		B 32 B	15/14	160-163	B 32 B	27/42	400	B 32 B	21/10	400	D 04 H	1/56
35-42	B 63 B	35/58		B 32 B	17/12	164	B 32 B	27/02	401	B 32 B	11/06	401	D 04 H	3/16
35	B 63 B	9/04		B 32 B	5/26	165	B 32 B	27/02	402-408	B 32 B	21/10		D 04 H	1/46
43	B 63 B	35/607		B 32 B	17/06	166-171	B 32 B	23/02	301	D 03 D	15/00		D 04 H	3/10
44-46	B 63 B	35/613		B 32 B	19/06	172	B 32 B	27/02	302	D 03 D	15/12	409-411	D 04 H	5/02
47-54	B 63 B	35/62		B 32 B	17/02	173-174	B 32 B	17/02	303	D 03 D	15/00		D 04 H	3/14
55	A 63 B	31/00		B 32 B	27/04	175	B 32 B	5/02	304	D 04 B	1/00	409	D 04 H	5/06
56	A 63 B	31/10		B 32 B	5/18	176-177	B 32 B	27/30		D 04 B	11/00	411	D 04 H	5/06
57	A 63 B	31/02		B 32 B	5/24	178	B 32 B	27/38		D 04 B	21/00	412	B 32 B	29/02
58	A 63 B	31/10		B 32 B	15/14	179	B 32 B	27/42		D 04 B	7/00	413	B 32 B	21/10
59-60	A 63 B	31/12		B 32 B	5/26	180	B 32 B	11/00		D 04 B	9/00	414-416	D 04 H	13/00
61-63	A 63 B	31/11		B 32 B	17/06	181	B 32 B	5/02	305-311	D 04 B	21/14		D 04 H	5/00
64	A 63 B	31/08		B 32 B	25/02	182	B 32 B	17/04	305	D 04 B	1/14	414-417	D 04 H	1/00
65-68	B 63 B	1/00		B 32 B	25/10	183	B 32 B	17/00	306	D 04 B	1/18		D 04 H	3/00
	B 63 B	35/00		B 32 B	27/04	184	B 32 B	15/08		D 04 B	11/12	417	B 32 B	5/16
68	B 63 B	35/81		B 32 B	27/12	185-202	B 32 B	5/00		D 04 B	7/16			
69-70	B 63 B	35/85		B 32 B	23/10	203-204	B 32 B	15/00		D 04 B	1/14			
71	B 63 B	1/00		B 32 B	27/12	205-207	B 32 B	13/00		D 04 B	9/24			
	B 63 B	35/00		B 32 B	27/12	208-217	B 32 B	11/00	313-314	D 04 B	1/00			
72	B 63 B	35/00		B 32 B	5/02	218-220	B 32 B	15/00		D 04 B	11/10			
73	B 63 B	35/85		B 32 B	5/16	219	B 32 B	5/08		D 04 B	7/14			
	B 63 B	1/00		B 32 B	27/12	220	B 32 B	17/02		D 04 B	9/16			
74	A 63 C	5/03		B 32 B	27/34	221	B 32 B	27/02	315	B 32 B	5/18			
	B 63 B	35/81		B 32 B	11/02	222	B 32 B	5/18		B 32				

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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 445--Con.																	
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	84	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	85	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	86	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	87-89	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	90	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		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	91	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	92	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	93	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	94	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	95-96	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				97-98	B 24 C	5/06			
49	H 01 J	9/14		A 63 H	30/00	325-326	A 63 H	13/18				99-100	B 24 C	7/00			
50-51	H 01 J	9/04	156-159	A 63 H	23/00		A 63 H	15/06	U.S. CLASS 449 BEE CULTURE								
52	H 01 J	9/14	160-161	A 63 H	23/02	327-329	A 63 H	3/14	1-2	A 01 K	51/00		B 24 C	7/00			
53-54	H 01 J	9/38	162	A 63 H	23/04	330	A 63 H	11/00	3-4	A 01 K	47/00	101	B 24 C	9/00			
55	H 01 J	9/39	163	A 63 H	23/06		A 63 H	13/00	5	A 01 K	59/00	102	B 24 C	5/04			
56	H 01 J	9/385	164-165	A 63 H	23/04		A 63 H	3/20	6	A 01 K	47/00	103-112	B 24 B	31/00			
57	H 01 J	9/39	166-167	A 63 H	29/10	331	A 63 J	19/00	7	A 01 K	57/00	113	B 24 B	19/00			
58	H 01 J	9/00	168-174	A 63 H	29/08	332	A 63 H	11/00	8	A 01 K	49/00	114	B 24 B	15/00			
59	H 01 J	9/38	175	A 63 H	30/00	333	A 63 H	13/02	9-11	A 01 K	53/00	115-118	B 23 C	3/05			
	H 01 T	21/04	176	A 63 H	29/10	334-335	A 63 H	13/06	12	A 01 K	47/00		B 24 B	15/02			
60	H 01 J	9/00		A 63 H	33/40	336-339	A 63 H	13/02	13-14	A 01 K	47/06	119-133	B 24 B	7/00			
	H 05 B	33/10	177	A 63 H	11/06	337-339	A 63 H	3/36	15-17	A 01 K	47/00		B 24 B	9/00			
61	H 01 J	9/50		A 63 H		340	A 63 H	3/20	18-25	A 01 K	47/06	134	B 24 B	5/00			
62	H 01 J	9/00	178-180	A 63 H	33/40	341-350	A 63 H	3/40	26-27	A 01 K	47/00	135-139	B 24 B	7/00			
	H 05 B	33/10	181-182	A 63 H	5/00		A 63 H	3/48	28	A 01 K	49/00		B 24 B	9/00			
63	H 01 J	9/42	183	A 63 H	3/06	351	A 63 H	13/00	29-41	A 01 K	47/00	140	B 24 B	5/00			
64	H 01 J	9/44	184-185	A 63 H	3/28	352-353	A 63 H	11/00	42-45	A 01 K	47/02		B 24 B	5/18			
65-66	H 05 B	9/46	186	A 63 H	29/10	354	A 63 H	13/00	46	A 01 K	47/00	141	B 24 B	3/00			
	H 01 J	33/10	187	A 63 H	27/26	355-356	A 63 H	7/00	47	A 01 K	51/00		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	48	A 01 K	53/00	142	B 24 B	5/00			
68	H 01 J	9/236		A 63 H	5/00	359-361	A 63 H	3/20	49	A 01 K	51/00	143-145	B 24 B	37/00			
69	H 01 J	9/36	197	A 63 H	29/10	362-367	A 63 J	19/00	50	A 01 K	57/00		B 24 B	5/00			
70	H 01 J	9/38	198-201	A 63 H	13/00	368	A 63 H	3/00	51-53	A 01 K	59/00	146	B 24 B	3/46			
71	H 01 J	9/46	202	A 63 H	33/40	369-372	A 63 H	3/02	54-55	A 01 K	59/02	147-148	B 23 F	19/05			
	H 01 J	9/48	203-209	A 63 H	5/00	373	A 63 H	3/36	56-59	A 01 K	51/00		B 24 B	5/00			
72	H 01 J	9/42	210	A 63 H	33/40	374	A 63 H	3/04	60	A 01 K	47/04	149	B 24 B	5/00			
	H 01 J	9/44	211-212	A 63 H	27/26	375-376	A 63 H	3/46	61-62	A 01 K	57/00	150-172	B 24 B	7/00			
73	H 01 J	9/38	213-216	A 63 H	5/00	377	A 63 H	7/00	63	A 01 K	59/02		B 24 B	9/00			
			217-218	A 63 H	33/40	378-384	A 63 H	3/46	64	A 01 K	57/00	173	B 24 B	5/00			
			219	A 63 H	33/22	385-386	A 63 H	3/36				174-188	B 24 B	7/00			
			220-226	A 63 H	3/06	387-388	A 63 H	3/08				189	B 24 B	5/18			
			227	A 63 H	33/00		A 63 H	3/10	U.S. CLASS 450 FOUNDATION GARMENTS								
			228-229	A 63 H	21/02	389	A 63 H	3/38	1-6	A 41 C	3/00		B 24 B	9/00			
			230-232	A 63 H	27/00	390-391	A 63 H	3/36	7-16	A 41 C	1/06	209-210	B 24 B	5/00			
			233	A 63 H	1/00	392	A 63 H	3/38	17	A 41 C	3/02	211-225	B 24 B	3/00			
1-2	A 63 H	33/04	234-235	A 63 H	1/20	393-394	A 63 H	3/44	18-27	A 41 C	1/06		B 24 B	5/00			
3	A 63 H	11/02	236-238	A 63 H	1/00	395	A 63 H	3/36	28-35	A 41 C	3/08	226	B 24 B	7/00			
4-5	A 63 H	33/00	239-240	A 63 H	1/02	396	A 63 H	13/18	36	A 41 C	3/04		B 24 B	9/00			
6	A 63 H	17/02	241	A 63 H	1/06		A 63 H	15/06	37-40	A 41 C	3/00	227-228	B 24 B	5/00			
7	A 63 H	17/00	242	A 63 H	1/24	397-404	A 63 H	5/00	41-53	A 41 C	1/14	229-230	B 24 B	3/00			
8-13	A 45 C	1/12		A 63 H	1/28	405-407	A 63 H	5/04	54-57	A 41 C	3/10		B 24 B	5/00			
	A 63 H	33/00	243-245	A 63 H	1/22	408	A 63 H	3/52	58	A 41 C	3/02	231-241	B 24 B	7/00			
14	A 63 H	33/28	246-249	A 63 H	1/06		A 63 H	33/30	59-87	A 41 C	3/00		B 24 B	9/00			
15-21	A 63 H	33/38	250-251	A 63 H	1/30	409	A 63 H	17/34	88	A 41 C	3/06	242-245	B 24 B	5/00			
22	A 63 H	33/28	252	A 63 H	1/28	410	A 63 H	19/14	89-93	A 41 C	3/00		B 24 B	5/18			
23	A 63 H	17/045	253-254	A 63 H	1/32	411-413	A 63 H	33/02	94-96	A 41 C	1/00	246	B 24 B	3/00			
24	A 63 H	33/28	255	A 63 H	27/127	414-422	A 63 H	5/00	97	A 41 C	1/04		B 24 B	5/00			
25	A 63 H	19/14	256	A 63 H	1/00	414	A 63 H	17/34	98-154	A 41 C	1/00	247-248	B 24 B	29/00			
26-29	A 63 H	33/00	257	A 63 H	1/18	423	A 63 H	17/44	155								