

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 454--Con.														
297	F 24 F	13 / 068				218-225	H 04 B	1 / 10	11-13	A 01 F	12 / 52	103-104	A 01 B	71 / 08
	F 24 F	13 / 10				226.1-226.4	H 04 B	17 / 00	14	A 01 F	12 / 52	105-106	A 01 D	75 / 18
	F 24 F	7 / 00				227-229	H 04 B	1 / 16		A 23 N	5 / 00		A 01 F	12 / 16
298	F 24 F	13 / 068				230-267	H 04 B	1 / 06	15	A 01 F	11 / 00		A 01 F	21 / 00
	F 24 F	13 / 12	1	H 04 K	3 / 00		H 04 B	7 / 00	16	A 01 F	12 / 00	107-108	A 01 F	12 / 24
	F 24 F	7 / 00	2.01	H 04 H	60 / 21	268	H 04 B	1 / 16		B 02 B	7 / 02	109	A 01 F	12 / 28
299-300	F 24 F	13 / 06		H 04 H	60 / 33	269-270	H 04 B	1 / 06	17-18	A 01 F	12 / 00	110	A 01 F	12 / 24
	F 24 F	13 / 08		H 04 H	60 / 61		H 04 B	7 / 00	19	A 01 F	12 / 14	111	A 01 F	12 / 30
	F 24 F	7 / 00	3.01	H 04 H	20 / 71	271	H 04 B	1 / 10	20	A 01 F	12 / 00	112	A 01 F	12 / 40
301-302	F 24 F	13 / 072	3.02	H 04 H	20 / 74		H 04 B	15 / 00	21-22	A 01 F	7 / 00	113	A 01 F	12 / 00
	F 24 F	13 / 08	3.03-3.04	H 04 H	60 / 09	272-279.1	H 04 B	1 / 06	23	A 01 D	90 / 10		A 01 F	12 / 38
	F 24 F	7 / 00	3.03	H 04 H	20 / 71		H 04 B	7 / 00	24	A 01 F	11 / 02		B 02 B	3 / 08
303	F 24 F	13 / 072	3.05	H 04 H	20 / 71	280-294	H 04 B	1 / 18	25	A 01 F	11 / 06	114	A 01 D	17 / 02
	F 24 F	13 / 10	3.06	H 04 H	40 / 00	283-288	H 04 B	1 / 10		A 23 N	5 / 00		A 01 F	12 / 46
	F 24 F	7 / 00	7-8	H 04 B	3 / 36	295-312	H 04 B	1 / 10		B 02 B	3 / 00	115	A 01 D	17 / 04
304	F 24 F	13 / 072		H 04 B	7 / 14	313-316	H 04 B	1 / 26	26-27	A 01 F	11 / 06	116	A 01 F	12 / 56
	F 24 F	13 / 14	9-10	H 04 B	1 / 60		H 04 B	15 / 00		B 02 B	3 / 00	117	A 01 F	12 / 54
	F 24 F	7 / 00		H 04 B	17 / 02	317	H 04 B	1 / 10	28-29	A 01 F	11 / 06	118	A 23 N	12 / 06
305-307	F 24 F	13 / 06	11.1	H 04 B	7 / 15		H 04 B	15 / 06		B 02 B	3 / 04		B 02 B	1 / 00
	F 24 F	13 / 08	12.1-13.1	H 04 B	7 / 185	318-332	H 04 B	1 / 26	30	A 01 F	11 / 06		F 26 B	21 / 00
	F 24 F	7 / 00	13.2	H 04 B	7 / 19	333	H 04 B	1 / 28	31	A 01 F	11 / 06	119	A 01 F	12 / 60
308	F 24 F	13 / 065	13.3-13.4	H 04 B	7 / 185	334-342	H 04 B	1 / 16		B 02 B	3 / 04	120	A 01 F	12 / 32
	F 24 F	13 / 08	14-22	H 04 B	7 / 14	343.1-343.6	H 04 B	1 / 16	32	A 01 F	12 / 20		A 01 F	12 / 38
	F 24 F	7 / 00	14	H 04 B	3 / 36	344-346	H 04 B	1 / 06		B 02 B	3 / 08	121-122	A 01 F	12 / 00
309	F 24 F	13 / 06		H 04 B	3 / 58	344	H 05 K	11 / 00	33	A 01 F	12 / 22	123	A 01 D	13 / 00
	F 24 F	13 / 08	23	H 04 B	7 / 165	345-346	H 05 K	11 / 02		B 02 B	3 / 00		A 01 D	21 / 00
	F 24 F	7 / 00	24-25	H 04 B	7 / 14	347-351	H 04 B	1 / 08	34	A 01 F	12 / 20		A 01 D	45 / 00
310	F 24 F	13 / 062	26.1	H 04 B	1 / 06	352-355	H 04 B	1 / 06		B 02 B	3 / 10	124-126	A 01 D	45 / 22
	F 24 F	13 / 08	39	H 04 B	7 / 24	400-402	H 04 M	9 / 00	35	A 01 F	11 / 06		A 01 D	45 / 24
	F 24 F	7 / 00	40	H 04 B	13 / 02	403	H 04 M	11 / 00		B 02 B	3 / 00	127-133	A 01 D	29 / 00
311	F 24 F	13 / 062	41.1	H 04 B	5 / 00	404.1-404.2	H 04 M	11 / 04	36	A 01 F	12 / 28		A 01 D	46 / 02
	F 24 F	13 / 10	41.2-45	H 04 B	7 / 00	405-409	H 04 M	11 / 00		B 02 B	3 / 00		A 23 N	15 / 10
	F 24 F	7 / 00	42-45	H 04 B	1 / 00	410-411	H 04 M	1 / 66	37	A 01 F	11 / 06	134	A 01 D	45 / 00
312	F 24 F	13 / 062	46-47	H 04 B	1 / 68		H 04 M	1 / 68		B 02 B	3 / 12		A 01 D	46 / 02
	F 24 F	13 / 14	48	H 04 B	1 / 60	412.1-412.2	H 04 M	3 / 16	38-39	A 01 F	12 / 40		A 23 N	12 / 02
	F 24 F	7 / 00	59	H 04 B	7 / 00	412.1	H 04 L	12 / 58	40-41	A 01 F	11 / 06		A 23 N	15 / 10
313-321	F 24 F	13 / 06	60-61	H 04 B	1 / 00	412.2	H 04 M	1 / 663	42-43	A 01 F	12 / 44	135-140	A 01 D	45 / 00
	F 24 F	13 / 14	62	H 04 B	15 / 00	413	H 04 M	11 / 10	44	A 01 F	12 / 48		A 01 D	46 / 00
	F 24 F	7 / 00		H 04 B	17 / 00	414.1-414.2	H 04 M	3 / 42	45-46	A 01 F	11 / 06	141	A 01 D	45 / 00
322-323	F 24 F	13 / 06	63.1-65	H 04 B	1 / 00	414.2	H 04 M	3 / 493		A 23 N	5 / 00		A 01 D	46 / 00
	F 24 F	13 / 10		H 04 B	15 / 00	414.3	H 04 L	29 / 06	47-57	A 01 F	11 / 06	142	B 02 B	3 / 00
	F 24 F	7 / 00	64-65	H 04 B	1 / 10	414.4	H 04 L	29 / 08		B 02 B	3 / 08		A 01 D	45 / 00
324	F 24 F	13 / 06	66.1	H 04 B	7 / 00	415-417	H 04 M	3 / 42	58	A 01 F	11 / 06		A 01 D	46 / 00
	F 24 F	13 / 12	67.11-67.16	H 04 B	17 / 00	418-420	H 04 M	3 / 00		B 02 B	3 / 02	143	B 02 B	3 / 08
	F 24 F	7 / 00	67.7	H 04 B	17 / 00	421	H 04 M	11 / 00	59	A 01 F	12 / 00		A 01 D	45 / 00
325-327	F 24 F	13 / 06	68-72	H 04 B	1 / 00	422.1	H 04 W	4 / 00		A 01 F	12 / 00		A 01 D	46 / 00
	F 24 F	13 / 14		H 04 B	7 / 00	423-425	H 04 W	24 / 00	60	F 26 B	25 / 22		B 02 B	3 / 14
	F 24 F	7 / 00	73	H 04 B	1 / 38	426.1-427	H 04 W	4 / 00		A 01 F	21 / 00	144-148	A 01 D	17 / 00
328	F 24 F	13 / 06	74-77	H 04 B	1 / 40	428	H 04 W	40 / 00	61	F 26 B	3 / 04	149-150	A 01 F	7 / 00
	F 24 F	13 / 10	78	H 04 B	1 / 44	429-431	H 04 W	4 / 00	62	A 01 F	7 / 00		A 01 F	7 / 00
	F 24 F	6 / 00	79-82	H 04 B	1 / 46	432.1-434	H 04 W	4 / 00	63	A 01 F	12 / 28		A 01 F	12 / 20
	F 24 F	7 / 00	83	H 04 B	1 / 44	435.1-435.3	H 04 W	4 / 00	64	A 01 F	12 / 22		A 01 F	12 / 22
329-332	F 24 F	13 / 06	84-88	H 04 B	1 / 40	436-444	H 04 W	36 / 00		A 01 F	7 / 06		B 02 B	3 / 06
	F 24 F	7 / 00	90.1-90.3	H 04 B	1 / 38	445-449	H 04 W	40 / 00	65	A 01 F	7 / 02		A 01 F	7 / 02
333	F 24 F	13 / 10	91-94	H 04 B	1 / 02	450-451	H 04 W	72 / 00		B 07 B	7 / 08	2-8	B 41 L	1 / 26
	F 24 F	7 / 00	95-100	H 04 B	1 / 034	452.1-454	H 04 W	72 / 00	66	A 01 F	7 / 06	3	B 41 L	5 / 04
334	F 24 F	13 / 12	101-108	H 04 B	1 / 02	455	H 04 W	74 / 00		B 02 B	3 / 06	5	B 41 L	1 / 28
	F 24 F	7 / 00	101	H 03 C	7 / 02	456.1-457	H 04 W	24 / 00	67	A 01 F	12 / 18	7-8	B 41 L	1 / 20
335-336	F 24 F	13 / 14		H 04 B	7 / 02	458-460	H 04 W	68 / 00	68	A 01 F	12 / 00	9-10	B 41 L	5 / 04
	F 24 F	7 / 00	102	H 04 B	1 / 66	461-463	H 04 W	4 / 00	69	A 01 F	7 / 06	11	B 41 L	5 / 06
337	F 24 F	6 / 00	103-105	H 04 B	1 / 04	464	H 04 W	72 / 00		B 02 B	3 / 06	12	B 41 L	5 / 14
	F 24 F	7 / 00	106-108	H 03 C	1 / 52	500-528	H 04 B	7 / 00	70	A 01 F	12 / 10		B 41 L	5 / 16
338	F 24 F	7 / 007	109	H 03 C	3 / 00	501-506	H 04 B	15 / 00	71-72	A 01 F	12 / 34		B 41 L	5 / 04
	F 24 F	7 / 06		H 04 B	1 / 68	550.1-551	H 04 M	1 / 00	73	A 01 F	12 / 38	13	B 41 L	5 / 04
339	F 24 F	13 / 02	110-113	H 04 B	1 / 04	552.1	H 04 M	1 / 00		B 02 B	3 / 08	14-15	B 41 L	5 / 00
	F 24 F	13 / 08	114.1-114.3	H 03 C	1 / 62	553.1	H 04 M	1 / 00	74	A 01 F	12 / 38	15-16	B 41 L	5 / 04
	F 24 F	7 / 00	115.1-115.4	H 04 B	17 / 00	554.1-555	H 04 M	1 / 00	75	A 01 F	7 / 04	17	B 41 L	1 / 20
340	F 24 F	11 / 00		H 01 Q	11 / 12	556.1-561	H 04 M	1 / 00		A 01 F	12 / 00	18-19	B 41 L	1 / 22
	F 24 F	7 / 00	116-126	H 04 B	1 / 04	562.1-567	H 04 M	1 / 00	76-77	A 01 F	12 / 00	18-24	B 41 L	1 / 24
341	F 24 F	13 / 08		H 01 Q	11 / 12	563-567	H 04 B	1 / 38		A 01 F	12 / 40	25-26	B 41 L	1 / 26
	F 24 F	7 / 007	127.1-127.5	H 04 B	1 / 04	569.1-574	H 04 M	1 / 00	78	A 01 F	12 / 44	27-30	B 41 L	5 / 04
	F 24 F	7 / 06		H 04 B	1 / 04	570-574	H 04 B	1 / 38	79	A 01 F	12 / 44	31	B 41 L	5 / 06
342-345	F 24 F	7 / 007	128-132	H 04 B	1 / 034	575.1-575.9	H 04 M	1 / 00		B 07 B	1 / 00	32	B 41 L	5 / 04
	F 24 F	7 / 06	128	H 04 B	1 / 034	701-703	H 04 B	1 / 10	80	A 01 F	12 / 44	33	B 41 L	5 / 06
346	F 24 F	13 / 24	129	H 04 B	1 / 04		H 04 B	1 / 38	81-83	A 01 F	7 / 06		B 41 L	5 / 06
	F 24 F	7 / 007	130	G 06 F	3 / 033	899	H 01 S	4 / 00		B 07 B	1 / 22	34-35	B 41 L	5 / 04
	F 24 F	7 / 06	131	H 03 D	7 / 16		H 04 B	7 / 00		A 01 F	1			

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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 462--Con.														
74	B 41 L	1/16		F 16 D	3/70	15	A 47 D	13/04	35-39	A 63 D	15/16	474	A 63 B	67/18
	B 41 L	1/18	73-101	F 16 D	3/00	21	A 63 G	1/22	42-43	A 63 D	15/10	475	A 63 B	67/04
76	B 41 L	3/06	102-105	F 16 D	3/04	27	A 63 G	1/08	44-48	A 63 D	15/08	476-478	A 63 B	63/00
77	B 41 L	3/10	106-108	F 16 D	3/00		A 63 G	1/10	45	A 63 D	13/00	479-489	A 63 B	63/08
78	B 41 L	3/02	109-110	F 16 D	3/16	28-29	A 63 G	1/00		A 63 F	7/24	490-491	A 63 B	61/00
79-82	B 41 L	3/04	109	F 16 D	3/30	30	A 63 G	27/08	48	A 63 F	9/00	490	A 63 B	67/18
83	B 41 L	3/00	111	F 16 D	3/26	31-32	A 63 G	1/00	49-51	A 63 D	15/12	490-491	A 63 C	19/06
84	B 41 L	1/00	112-136	F 16 D	3/00	33	A 63 G	1/28	49-57	A 63 B	67/00	491	A 63 B	67/04
	B 41 L	3/12	137-138	F 16 D	3/48	34	A 63 G	1/30		A 63 F	9/02	492-493	A 63 B	61/02
	B 41 L	5/16	139-146	F 16 D	3/00	35-36	A 63 G	1/00	52-53	A 63 B	37/00	493	A 63 B	61/04
			147-148	F 16 C	1/04	37	A 63 G	1/34	54	A 63 D	1/00	494-495	A 63 B	61/00
U.S. CLASS 463														
AMUSEMENT DEVICES:														
GAMES														
1-47	A 63 F	13/00	150-153	F 16 D	3/00	43-47	A 63 G	1/00	58	A 63 D	5/04	498	A 63 B	63/00
	A 63 F	9/24	154	F 16 D	3/18	44-46	A 63 G	27/00	59-63	A 63 D	5/00	504	A 63 C	19/12
	G 06 F	17/00		F 16 D	3/44	48	A 63 G	31/02	64-66	A 63 D	5/08	505-515	A 63 B	59/02
	G 06 F	19/00	155	F 16 D	3/26	49	A 63 G	31/10	67-72	A 63 D	5/04		A 63 B	65/12
47.1	A 63 B	67/00	156-159	F 16 D	3/18	50	A 63 G	31/04	73-100	A 63 D	5/08	516-518	A 63 B	47/02
	A 63 B	69/02		F 16 D	3/44	51-56	A 63 H	37/00	101	A 63 D	5/04		A 63 B	49/00
47.2-47.7	A 63 B	15/00	160-161	F 16 D	1/12	57-58	A 63 J	5/02	102-105	A 63 D	5/02	516-521	A 63 B	59/00
	A 63 B	59/00		F 16 D	3/10	57-61	A 63 J	5/02	106	A 63 D	3/02	519	A 63 B	49/04
48	A 63 F	9/00	162-169	F 16 D	3/06	57-61	A 63 J	5/02	107	A 63 D	5/00	521-522	A 63 B	49/00
49-57	A 63 B	67/00	162	F 16 C	3/03	59-60	A 63 G	31/16		A 63 F	7/24	521	A 63 B	59/04
	A 63 F	9/02	163-166	E 21 B	17/02	61	A 63 G	31/00	108	A 63 D	7/00	522	A 63 B	49/02
58-69	A 63 F	9/14		E 21 B	3/04	62	A 63 J	11/00	109	A 63 D	5/00		A 63 B	51/00
			167-169	F 16 C	3/03	63-66	A 63 G	31/00	110-112	A 63 D	5/02	523-527	A 63 B	59/00
			170-178	F 16 C	1/26	63	A 63 J	5/00	113	A 63 D	1/08		A 63 B	59/04
U.S. CLASS 464														
ROTARY SHAFTS,														
GUDGEONS, HOUSINGS,														
AND FLEXIBLE COUPLINGS														
FOR ROTARY SHAFTS														
1-6	F 16 D	3/10				64	A 63 J	5/04	114-115	A 63 D	1/00	523	A 63 B	49/08
7-16	F 16 C	1/24				65	A 63 J	5/02	116	A 63 D	1/02	524-526	A 63 B	49/00
	F 16 N	1/00				66	A 63 J	99/00	117	A 63 D	1/04		A 63 B	49/02
7-23	F 16 D					67	A 63 H	23/08	118-124	A 63 D	9/00	528	A 63 B	51/04
7	F 16 D	3/26				68-74	A 63 G	31/00	125	A 63 B	37/00	529-530	A 63 B	59/00
8	F 16 D	3/40					A 63 J	21/00		A 63 B	43/00		A 63 B	59/04
9-10	F 16 D	7/02				75	A 63 J	5/02	126	A 63 B	43/04	531-532	A 63 B	49/02
11	F 16 D	3/84				76	A 63 J	1/00	127	A 63 B	43/02	531	A 63 B	49/00
12-13	F 16 D	3/42				77-79	A 63 J	1/02	128-130	A 63 B	43/00	532	A 63 B	51/00
14	F 16 D	3/40				80-84	A 63 J	5/00	131-149	A 63 B	57/00	533	A 63 B	51/06
15	F 16 D	3/223				85-86	A 63 K	1/00	141-281	A 63 B	69/36	534	A 63 B	51/12
16	F 16 D	3/18				85-87	A 63 K	3/00	150-172	A 63 B	67/02	535-536	A 63 B	49/10
17	F 16 D	3/76				87	A 63 K	1/02	173-230	A 63 B	57/00	537	A 63 B	49/00
18-21	E 21 B	17/02				88-91	A 63 C	19/10	231-277	A 63 B	53/06		A 63 B	51/02
18	E 21 B	17/07					A 63 C	19/10		A 63 B	53/16	538	A 63 B	49/08
19	E 21 B	17/20				92-94	A 63 C	19/00	278-279	A 63 B	57/00	539-542	A 63 B	49/14
20-21	E 21 B	17/07				92	A 63 C	19/04	282-293	A 63 B	53/00	539-543	A 63 B	51/00
22	F 08 B						A 63 J	3/00		A 63 B	55/00	544-545	A 63 B	49/12
	F 16 C	3/02				95-102	A 63 J	3/00	294	A 63 B	53/14	544	A 63 B	49/10
	F 16 D	7/02					E 01 C	13/00	295-296	A 63 B	53/16	546	A 63 B	49/02
23	G 08 B					103-105	E 04 H	3/10	297-303	A 63 B	53/14	547	A 63 B	49/10
	F 16 D	3/80				106-115	A 63 G	13/06	304	A 63 B	53/00	548	A 63 B	49/02
24-28	F 16 D	31/00					A 63 G	17/00	305-315	A 63 B	53/02		A 63 B	49/14
	F 16 D	27/00					A 63 G	13/08	316-323	A 63 B	53/10	549-552	A 63 B	49/08
	H 02 N	13/00					A 63 G	13/00	324-350	A 63 B	53/12	553	A 63 B	49/00
30	F 16 D	7/02				116	A 63 G	21/00	351	A 63 B	37/00		A 63 B	59/04
31-33	F 16 D	9/00				117	A 63 G	21/18	352	A 63 B	37/02	554	A 63 B	49/16
34	F 16 D	7/00				118	A 63 G	9/00	353	A 63 B	39/00	555-557	A 63 B	51/14
35-36	F 16 D	7/06				119-124	A 63 G	9/16	354	A 63 B	43/00	558	A 63 B	59/10
37-39	F 16 D	7/04				125	A 63 G	9/00	355	A 63 B	43/06		A 63 B	59/16
40-48	F 16 D	7/02				126-129	A 63 G	31/00	356	A 63 B	37/08	559	A 63 B	59/00
49	F 16 D	3/54				128-129	A 63 H	23/10	357	A 63 B	37/02		A 63 B	59/18
50	F 16 D	3/08				130	A 63 G	31/16	358	A 63 B	39/00	560-563	A 63 B	59/12
51-53	F 16 C	1/00				131-134	A 63 G	31/00	356-357	A 63 B	37/06		A 63 B	59/14
	F 16 D	3/00				131	A 63 J	5/12	358	A 63 B	37/02	564	A 63 B	59/00
	F 16 D	3/12				135	A 63 G	13/00	359-360	A 63 B	39/00	565	A 63 B	59/18
54	F 16 D	3/52				136-137	A 63 G	23/00	361-377	A 63 B	37/04	566-568	A 63 B	59/00
55-56	F 16 D	3/50				137	E 04 H	3/14	367-370	A 63 B	37/08	569-570	A 63 B	37/00
57-60	F 16 C	1/00					A 63 G	33/00	371-377	A 63 B	37/04	569-571	A 63 B	39/00
	F 16 D	3/00							378-385	A 63 B	37/12		A 63 B	41/00
	F 16 D	3/12								A 63 B	37/14	569	A 63 B	65/00
61.1	F 16 D	3/00							386-409	A 63 B	57/00	570	A 63 B	43/06
	F 16 F	15/121							410	A 63 B	67/00	571	A 63 B	43/00
62.1	F 16 D	3/00							411	A 63 B	63/00	572-586	A 63 B	65/02
	F 16 F	15/121							412	A 63 B	59/00	573	A 63 B	37/12
63.1	F 16 D	3/00							413	A 63 B	37/00		A 63 B	39/06
	F 16 F	15/121							414-415	A 63 B	67/00		A 63 B	41/08
64.1	F 16 D	3/00							416-440	A 63 B	69/00	575-576	A 63 B	37/00
	F 16 F	15/121							416	A 63 B	61/00		A 63 B	43/00
65.1	F 16 D	3/00							417-421	A 63 B	63/00		A 63 B	67/10
	F 16 F	15/121							421	A 63 B	71/00	575-577	A 63 B	39/00
66.1	F 16 D	3/00							425	A 63 B	67/20		A 63 B	41/00
	F 16 F	15/121							425	A 63 B	67/20		A 63 B	65/00
67.1	F 16 D	3/00							441-445	A 63 B	69/34	587-589	A 63 B	67/14
	F 16 F	15/121							446-464	A 63 B	69/00	587	A 63 B	71/02
68.1-68.3	F 16 F	15/121							459-464	A 63 B	69/38	588-589	A 63 B	65/10
68.4-68.41	F 16 F	15/129							465-466	A 63 B	67/00		A 63 B	67/06
68.5-68.92	F 16 F	15/121							467	A 63 B	61/00	590	A 63 B	65/08
69	F 16 D	3/62												