

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 401--Con.														
99-116	B 43 K	24/02	258-260	B 43 K	1/10		F 16 L	29/00	104-108	F 16 B	7/10	276	F 16 B	12/24
	B 43 K	5/16	259-260	B 43 K	1/06	16-22	B 25 G	3/00	109.1-109.8	F 16 B	7/10	277	B 21 D	53/84
112-115	B 43 K	7/12		B 43 K	5/16		E 21 B	19/16	110-165	F 16 D	1/12	278	F 16 B	5/04
117	B 43 K	7/12	261	A 47 L	13/30	17	A 47 J	45/06	111-121	F 16 D	3/00	279	E 04 B	5/10
118-127	A 46 B	11/00		B 43 K	5/00	18	F 16 B	7/04	111	F 16 C	11/00	280-281	E 04 B	1/49
121-122	A 46 B	17/08		B 43 M	11/06	19	E 04 B	1/19	112	F 16 B	7/10	282	F 16 D	1/072
128	B 43 M	11/00	262	B 43 K	23/12	20	B 60 M	5/00	113	F 16 C	11/00	283	F 16 B	15/00
129	A 46 B	11/00	263-264	A 47 L	13/30	21-22	F 16 B	37/04	114-115	F 16 C	11/06	284	F 16 G	11/02
130	A 45 D	33/00		B 43 K	5/18	23	F 16 B	11/00	116-149	F 16 C	11/00	285	H 01 R	4/20
131	B 43 K	23/02		B 43 M	11/06		F 16 D	3/84	118	F 16 B	7/18	286-288	B 25 G	3/00
132-135	B 43 K	5/14	265	B 43 K	1/06		F 16 L	11/12	121	F 16 C	32/02	286-291	F 16 D	1/00
136-138	A 47 L	1/08	266	B 05 C	11/00	24-25	F 16 B		150-159	F 16 J	1/16	286	E 21 B	17/043
	A 47 L	13/00	267	B 43 K	1/04		F 16 D	3/00	150-163	F 16 C	11/06	287	B 25 G	3/30
137	B 43 M	11/02	268	A 46 B	11/00	24	F 16 C	11/06	160-165	F 16 D	3/00	288	F 16 B	43/00
139	A 47 L	13/26	269	A 46 B	17/04	25	F 16 J	1/22	166	F 16 B	7/10	289-290	B 25 G	3/24
	A 47 L	13/30	270-288	A 46 B	11/04	26	F 16 B	7/00	167-168	F 16 B	7/08		F 16 B	2/02
140	A 46 B	11/00	270	A 47 L	13/22		F 16 C	32/00		F 16 B	9/00		F 16 B	7/04
141-142	B 43 K	7/08	275-290	A 47 L	13/22	27-30	F 16 D	1/12	169-170	F 16 B	7/04	291	F 16 B	
	B 43 K	7/10	289	A 46 B	11/06		F 16 D	1/00	169-178	F 16 L	41/00		F 16 C	11/12
143-144	B 43 K	5/02	290	A 46 B	11/00		F 16 G	11/00	169-185	F 16 B			F 16 G	11/00
145	B 43 K	5/04	291	A 46 B	11/04	27-32	F 16 B			F 16 D	1/00	292-298	F 16 B	12/36
146	B 43 K	5/02	292	A 46 B		27	B 25 G	3/00		F 16 D	3/00		F 16 B	13/00
147	B 43 K	7/10		A 47 L			F 16 C	11/06	171	E 04 B	1/19		F 16 B	7/00
	B 43 M	11/02		B 43 K	1/00	28-30	F 16 C	9/00	172	F 16 B	7/04	299-309	B 25 G	3/00
148-150	B 43 K	5/18		B 43 K		28	F 01 D	5/02	173	E 04 B	1/24	299-321	F 16 D	1/00
151	B 43 K	5/10		B 43 M		29-30	C 04 B	37/02	174	F 16 B	7/04	299	B 25 G	3/30
152-170	B 43 K	5/04				31	F 16 D	1/08	175	E 21 B	15/00		F 16 B	
171-177	B 43 K	5/06					F 16 D	3/80	176	F 16 B	7/04		F 16 G	11/00
171	B 05 C	17/01					F 16 L	17/00	177	H 01 J	5/32	300	F 16 B	7/18
	B 05 C	17/015				32	B 23 B	31/26	178	E 04 B	1/58		F 16 L	15/00
178	B 43 K	5/10					E 21 B	19/16	179	C 04 B	37/02	301-309	F 16 B	
179-182	B 43 K	5/06					F 16 D	1/00	180	F 16 G	11/12	301-320	F 16 G	11/00
183-186	B 43 M	11/06					F 16 G	11/00	181	A 47 L	13/24	301	F 16 B	7/04
187-188	A 46 B	11/02				33	F 16 C	11/00	182	F 16 G	11/10	302	B 21 D	53/84
187	B 43 K	5/02	1-6	B 42 F	13/40		F 16 D	1/12	183	F 16 D	11/033	303	H 01 R	4/52
188A	B 43 K	5/18	7	B 42 F	13/00		F 16 D	3/00	184	F 16 B	7/18	304	A 01 H	5/02
		5/02	8-13	B 42 F	13/02	34	F 16 B		185	F 16 G	11/04	305	E 04 C	5/16
190	A 46 B	11/02		B 42 F	3/00		F 16 C	11/06	186-188	F 16 B	9/00	306	B 65 G	21/20
	A 46 B	5/02	14-18	B 42 F	13/06		F 16 D	3/80	186-191	F 16 B	7/08	307	E 21 B	17/042
	B 05 C	17/005		B 42 F	13/08		F 16 L	17/00	186-201	F 16 L	41/00	308	H 01 R	4/50
191	A 46 B	11/00	19-23	B 42 F	13/02	35-36	F 16 C	11/00	192-201	F 16 B	9/00	309	F 16 B	5/00
192	B 43 K	5/12		B 42 F	3/02		F 16 D	1/12	202-204	E 21 B	19/16	310-314	F 16 B	2/02
	B 43 K	7/06	24-26	B 42 F	13/00		F 16 D	3/00		F 16 B			F 16 B	7/04
193	B 43 K	29/00	27-28	B 42 F	13/16	37	F 16 B			F 16 D	1/00		F 16 D	1/02
194	B 43 K	5/12	27-45	B 42 F	3/04		F 16 C	11/06		F 16 D	3/00	315-320	B 25 G	3/00
	B 43 K	7/06	29-45	B 42 F	13/20		F 16 D	3/80	202	F 16 K	31/60	315	F 16 B	21/09
195	B 43 K	29/00	46-56	B 42 F	13/30		F 16 L	17/00	203	F 16 F	1/38	316	F 16 D	1/116
196	B 05 C	21/00		B 42 F	3/02	38-39	F 16 C	11/00	204	F 04 D	29/20	317	F 16 B	21/16
	B 43 K	5/00	57	B 42 F	13/04		F 16 D	1/12	205	F 16 B	1/00	318	F 16 D	1/08
	B 43 K	8/00		B 42 F	3/06		F 16 D	3/00		F 16 B	9/00	318	F 16 D	1/08
	B 43 M	11/06	58-72	B 42 F	13/12	40-41	B 25 G	3/00		F 16 L	41/00	319	E 25 D	17/04
197	B 05 C	1/00		B 42 F	3/00	40-42	F 16 B		206-219	F 16 G	11/00	320	E 21 B	17/043
	B 05 C	17/00	60-69	B 42 F	13/36	40	F 16 C	11/06	206-229	F 16 B		321	B 25 G	3/18
	B 43 K	8/20	73-80	B 42 F	13/00		F 16 D	1/00	207	B 62 K	21/12		F 16 B	21/00
198-199	B 43 K	5/00	80R	B 42 F	13/12	41-42	F 16 D		208	A 47 C	31/06	322.1-330	B 25 G	3/18
	B 43 M	11/06		B 42 F	13/40		F 16 L		211	F 16 G	11/04		F 16 B	21/00
198	B 43 K	8/06				41	F 16 G	11/00	212	F 16 G	11/02	322.1-353	F 16 D	1/00
199	B 43 K	8/08				42	B 62 D	7/16	213	H 02 G	7/05	331-332	F 16 B	
200	A 45 D	33/02				43-48	F 16 B	7/06	214	H 01 R	4/12	331-334	B 25 G	3/00
	B 05 C	19/04					F 16 G	11/12	215	F 16 B	7/18	331	E 21 B	17/046
	B 05 C	19/06	1	B 60 B	27/00	49	E 04 G	7/00	216	F 16 G	11/06	332	A 47 B	13/00
201	A 47 K	7/02		F 16 D	1/06		F 16 B	1/00	217-218	F 16 B	7/04	333-334	F 16 B	7/02
	B 43 K	8/10	2-22	F 16 B		50-51	F 16 J	15/52	217-219	F 16 D	3/00	335-341	F 16 B	
202-206	B 43 K	5/00	2	E 01 F	9/018		F 16 L	51/02	217-229	F 16 D	1/00		F 16 L	23/00
207	B 43 K	8/12		F 16 D	9/00	50-55	F 16 B	7/10	219	E 04 B	9/12	335	F 16 B	5/00
	B 43 M	11/06		F 16 P	5/00		F 16 C	11/00	220	F 16 C	11/04	336-337	F 16 D	1/033
208	B 05 C	17/00	3-4	F 16 D	1/00		F 16 D	1/12	221	F 16 C	11/06	338	F 16 B	5/06
	B 05 C	17/02		F 16 L	25/00	56	F 16 C	11/06	222	B 60 G	7/00	339	A 47 B	96/06
	B 05 C	21/00	3	F 16 K	31/60	57-58	F 16 D	3/00	223	B 64 G	1/64	340	B 29 C	65/00
	B 43 M	11/02	4	F 16 B	5/02	59-60	F 16 B	7/06	224-225	F 16 F	1/38	341	F 16 B	7/22
209	B 43 K	7/00	5	F 16 D	1/08		F 16 B	7/10	226	B 60 G	7/00	342-343	F 16 B	7/18
	B 43 K	7/03		F 16 L	17/00		F 16 G	11/12	227	F 16 F	1/393		F 16 L	15/00
	B 43 K	7/02		F 16 L	33/16	59	F 16 C	11/00	228	F 16 F	1/38	342-348	B 25 G	3/00
210	B 43 K	7/10	6-11	B 25 G	3/00	61-62	F 16 C	11/00	229	A 47 L	13/252	344-348	F 16 B	
211-212	B 43 K	23/08	6-9	F 16 D	1/00	62	F 16 D	1/12	230-233	F 16 B	9/00	344	F 16 D	1/08
213	B 43 K	7/10		F 16 G	11/00	63-64	F 16 B	7/10	230-234	F 16 B	7/08	345	F 16 B	17/00
214-216	B 43 K	7/02	6	E 21 B	37/02	64-73	F 16 C	11/00	230-264	B 25 G	3/00	346	E 06 B	3/99
217	B 43 K	7/02	7	F 16 B	7/04	64	F 16 D	1/12		F 16 L	41/00	347	E 04 B	9/12
218-220	B 43 M	11/02	8	F 16 B	12/20	65	F 16 B	12/44	235-236	F 16 B	9/00	348	F 16 B	21/02
221	B 43 K	5/00	9	E 21 B	17/043	66-67	F 16 B	7/10	237	F 16 B	7/08	349	B 25 G	3/16
222-224	B 43 K	5/02	10	F 16 K	31/60		F 16 D	3/00	238-264	F 16 B	9/00		F 16 B	7/20

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 403--Con.														
360	F 16 G	11/00		E 04 C		43-49	E 02 B	13/00	154.1	B 63 B	35/03	245-246	E 02 D	7/30
361	G 05 G	1/12	37-42	E 01 C	5/00	43	E 02 B	11/00		B 63 B	35/04	247	E 02 D	5/42
362	F 16 D	1/08	43	E 01 C	3/00	45	E 02 B	11/00		F 16 L	1/00		E 02 D	7/20
363	E 21 D	11/22	44	E 01 C	5/22	47-51	E 02 B	11/00	155-156	E 03 F	3/06	248	E 02 D	15/00
364	E 04 B	1/26	45	E 01 C	5/08	52	E 02 B	13/00	155	F 16 L	1/038	249	E 02 D	23/00
365-366	F 16 D	1/08		E 01 C	5/10	53-58	B 65 G	5/00	156	F 16 L	1/024		E 02 D	7/28
367-371	B 25 G	3/20	46	E 01 C	5/14		E 21 F	17/16	157	E 03 B	7/10	250	E 02 D	5/00
	F 16 B	2/00	47-48	E 01 C	11/00	59	B 65 G	65/30		E 03 B	7/14	251	E 02 D	5/08
367-373	F 16 B	7/04	49	E 01 C	11/10	60	E 02 B	15/00		F 16 L	57/00		E 02 D	5/16
372	B 25 G	3/10	50	E 01 C	11/04	60.5	B 62 D	35/00		F 16 L	59/00	252-252.1	E 02 D	5/10
	F 16 B	2/22	51-63	E 01 C	11/02	61	E 02 B	15/02	158	F 16 L	1/00		E 02 D	5/14
373	B 25 G	3/20		E 01 C	11/14	62	E 02 B	15/00		F 16 L	1/028	253-254	E 02 D	7/14
	F 16 B	2/00	64-66	E 01 C	11/10	63-72	E 02 B	15/04	159-173	F 16 L	1/12	255	E 02 D	5/52
374.1-374.5	B 25 G	3/20	67	E 01 C	11/08	73	E 02 B	3/02	174-177	F 16 L	1/028	256-257	E 02 D	5/00
	F 16 B	2/14	68-69	E 01 C	11/02	74	E 02 B	8/02	178	F 16 L	3/22	258.1	E 02 D	3/00
	F 16 B	2/18		E 01 C	11/04	75	E 02 B	9/00	179	F 16 L	1/028	259.1-262	E 21 D	20/00
	F 16 B	7/04	70	E 01 C	11/16	76-77	E 02 B	9/08		F 16 L	3/00		E 21 D	21/00
375-376	F 16 B			E 01 C	5/08	78	E 02 B	9/00	180-184	E 02 F	5/10	262	E 02 D	29/00
	F 16 D	1/00	71	E 01 C	7/00	79-80	E 02 B	3/00		E 03 F	3/06	263-266	C 09 K	17/00
375-378	B 25 G	3/00	72	E 01 C	11/24	81-83	E 02 B	8/08		F 16 L	1/00		E 02 D	3/12
375	F 16 B	21/18		E 01 C	3/06	84	E 02 B	5/04	183.5	F 16 L	7/00	267-269	E 02 D	5/18
376	F 16 B	7/14	73	E 01 C	5/00	85	E 02 C	1/00	184.1-184.3	F 16 L	55/18	267	E 02 D	27/00
379.1-379.6	B 25 G	3/00	74	E 01 C	11/02	86	E 02 C	5/00	184.3	F 16 L	55/44		E 02 D	29/00
	F 16 B	7/10	75	E 01 C	7/06	87-89	E 02 B	7/00	184.4-184.5	F 16 L	3/00	270	C 09 K	17/00
379.1-381	F 16 D	1/00		E 01 C	7/32	90-93	E 02 B	8/00	184.4	F 16 L	1/06		E 02 D	3/12
380-382	B 25 G	3/08	76	E 01 C	21/00	94-95	E 02 B	7/40	184.5	F 16 L	1/036	271	E 02 D	3/02
	F 16 B			E 01 C	7/36	96-97	E 02 B	7/20	185	B 63 C	11/00	272	E 02 D	5/00
380	A 01 B	35/22	77	E 01 C	7/06	98	E 02 B	7/20	186	B 63 C	11/02		E 21 D	5/00
381	B 23 Q	1/48	78	E 01 C	23/10	99-102	E 02 B	7/40	187-192	B 63 C	11/10	273	E 02 D	17/00
382	E 04 G	7/00	79-80	E 01 C	23/14	103-105	E 02 B	7/26	193	B 63 C	11/44		E 02 D	29/00
	E 06 B	3/984	81-83	E 01 C	19/00	106	E 02 B	7/36	194	B 63 C	11/38	274	E 02 D	5/02
383	B 25 G	3/00	84.05-84.5	E 01 C	23/07	107	E 02 B	3/10	195.1	E 02 B		275-287	E 02 D	29/00
	F 16 B	7/00	84.8	E 01 C	23/06	108	E 02 B	8/06		E 02 D	23/00	275-288	E 02 D	17/00
	F 16 D	1/00	85-86	E 01 C	19/00	109	E 02 B	7/02		E 02 D	27/24		E 02 D	3/02
384-403	B 25 G	3/36	87-89	E 01 C	23/02	110-112	E 02 B	7/14	196-200	E 02 B	17/08	287.1	E 02 D	19/00
	E 04 G	7/00	90-92	E 01 C	23/08	113-114	E 02 B	7/08	201-202	E 02 B	17/00	288	E 02 D	29/00
	F 16 B			E 01 C	23/12	115-116	E 02 B	7/02	203	E 02 B	17/08	289	E 21 D	15/32
384	E 04 B	1/26	93-94	E 01 C	23/16	117	E 02 B	7/06		E 02 D	29/00	290	E 21 D	15/00
385	E 04 G	7/14	95	E 01 C	23/14	118-120	E 02 B	5/00	204-206	E 02 D	25/00	291-292	E 21 D	23/00
386	A 01 B	35/22	96-97	E 01 C	19/22	121-122	E 02 B	9/04	205-206	E 02 D	23/02	293-294	E 21 D	15/14
387	E 04 B	9/16		E 04 G	21/10	123-124	E 04 D	13/04	207-208	B 63 B	35/40	295	E 21 D	17/02
388	F 16 B	5/02	98	E 01 C	11/22	125-127	E 01 F	5/00	209	E 02 D	25/00	296	E 21 D	19/00
389	E 04 B	1/26	99	E 01 C	19/52	128.1-128.2	E 03 F	3/00	210	E 02 D	27/38	297	E 21 D	15/52
390-391	F 16 B	7/04	100	E 01 C	11/16	128.1	B 09 B	1/00	211-211.1	E 02 D	31/00	298	E 21 D	15/34
392	E 04 D	3/36		E 01 C	23/04	128.2	B 09 C	1/00		E 02 D	5/60	299-302	E 21 D	23/00
393	G 03 D	15/04	101	E 01 C	19/12	128.25-128.3	B 09 C	1/02	212-215	E 02 B	3/26	302.1-302.3	E 02 D	17/00
394	F 16 G	11/06	102	E 01 C	19/38	128.35-128.4	B 09 C	1/06	216	E 02 D	31/00		E 02 D	19/00
395	F 16 B	7/04	103	E 01 C	19/28	128.45	A 62 D	3/00	217	E 02 D	17/00	302.4	C 09 K	17/00
396	F 16 G	11/06	104	E 01 C	19/00	128.5	B 09 C	1/08	218-221	B 63 C	1/00	302.5	E 02 D	31/08
397	F 16 B	21/08		E 01 C	9/10	128.55-128.6	B 09 C	1/06		B 63 C	3/00	302.6-302.7	E 02 D	17/20
398-399	E 04 G	7/18	105-106	E 01 C	19/12	128.65-128.7	B 09 C	1/02	222	E 02 B	3/20	303	E 02 D	
400	F 16 B	7/04	107	E 01 C	23/02	128.75	B 09 C	1/08		E 02 D	19/14		E 02 D	20/00
401	E 06 B	3/984	108-111	E 01 C	19/18	128.85-128.8	B 09 C	1/06	223-223.1	E 02 D	5/00			
402	A 47 G	1/10	112	E 01 C	19/22	128.85	A 62 D	3/00		E 02 D	5/34			
403	F 16 B	12/46	113-117	E 01 C	19/38	128.85	B 09 C	1/08		E 02 D	5/40			
404	F 16 D	1/00	118-120	E 01 C	19/22	128.85-128.85	F 23 G	7/14	224	E 02 D	5/54			
408.1	F 16 G	11/00	121-130	E 01 C	19/26	128.9	A 62 D	3/00	224.1-224.4	E 02 D	15/02			
409.1-410	B 25 G	3/00	132	E 01 C	19/26	129.1-129.15	B 09 B	1/00	225	E 02 D	5/62			
	F 16 G	11/00	133.05	E 01 C	19/30	129.15-129.3	B 09 B	3/00	226	E 02 D	5/46			
409.1	F 16 B	2/14	133.1	E 01 C	19/32	129.2-129.3	G 21 F	9/00	227	E 02 D	5/32			
410	B 65 D	5/20		E 01 C	19/35	129.35	B 65 G	5/00	228	E 02 D	11/00			
	F 16 B			E 01 C	19/35	129.4-129.45	B 09 B	1/00		E 02 D	13/00			
	F 16 D	1/00	133.2	E 01 C	19/34	129.45	B 09 B	3/00	229	E 02 D	9/00			
			134-136	E 01 C	11/00	129.5-129.55	B 65 G	5/00		E 02 D	31/02			
						129.55-129.55	G 21 F	5/00	230	E 02 D	5/00			
						129.55-129.55	G 21 F	9/00	231	E 02 D	5/22			
						129.57	B 65 D	90/24	232	E 02 D	11/00			
						129.6-129.85	B 09 B	1/00		E 02 D	13/00			
						129.85	B 09 C	1/00		E 02 D	7/00			
							B 65 F	5/00	233	E 02 D	5/00			
						129.9-129.95	B 09 B	5/00	234	E 02 D	13/00			
						130-131	E 02 D	19/14		E 02 D	7/12			
						132	E 02 D	29/00	235	E 02 D	5/22			
							E 21 D	11/00		E 02 D	7/00			
							E 21 D	9/00	236	E 02 D	15/02			
						133	E 21 D	1/00		E 02 D	5/62			
						134-135	E 02 D	29/00	237-238	E 02 D	5/44			
						134-145	E 21 D	9/00	239	E 02 D	5/30			
						134-153	E 21 D	11/00	240-242	E 02 D	5/56			
						136-137	E 02 D	29/063		E 02 D	7/22			
						138-145	E 02 D	29/00	243	E 02 D	15/04			
						141-147	E 21 D	9/06		E 02 D	5/70			
						148	E 21 D	9/12		E 02 D	7/30			
						149	E 02 D	29/00	244	E 02 D	27/50			