

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
U.S. CLASS 162--Con.																	
155-157.7	D 21 H	15 / 00	228-229	D 21 G		287	B 31 F	1 / 00		D 21 F	1 / 06	68.1	B 22 D	27 / 00			
	D 21 H	17 / 00		D 21 J	3 / 00		B 31 F	7 / 00	341-342	D 21 F	1 / 18	69.1	B 22 D	29 / 00			
	D 21 H	19 / 00		D 21 J	5 / 00	288	D 21 J	3 / 00	343-347	D 21 F	1 / 06	70.1	B 22 D	31 / 00			
	D 21 H	21 / 00		D 21 J	7 / 00	289	D 21 F		348-349	D 21 F	1 / 10	71.1	B 22 D	27 / 08			
	D 21 H	23 / 00	230	D 21 F	11 / 00		D 21 G	9 / 00	350	D 21 F	1 / 24	72-74	B 22 C	3 / 00			
	D 21 H	25 / 00	231	D 21 G	1 / 00	290	D 21 F	5 / 00	351-352	D 21 F	1 / 10		B 22 D	27 / 00			
	D 21 H	27 / 00		D 21 H			D 21 F	9 / 00		D 21 G	9 / 00	75	B 22 D	19 / 00			
158	D 21 F	11 / 00		D 21 J		291-304	D 21 F	1 / 00	353	D 21 F	1 / 58	76.1	B 22 C	9 / 10			
	D 21 H	23 / 00	232	D 21 F	1 / 00	305	D 21 F	3 / 00		D 21 G	9 / 00		B 22 D				
159-182	D 21 H	11 / 00		D 21 F			D 21 F	9 / 00	354	D 21 F	1 / 00	77	B 22 D	23 / 00			
	D 21 H	13 / 00	233-237	D 21 C	7 / 00	306-307	D 21 F	2 / 00	355-356	D 21 F	1 / 18	78	B 22 D	25 / 00			
	D 21 H	15 / 00	238	D 21 C	7 / 12	308	D 21 F	1 / 20	357	D 21 F	1 / 60	79	B 22 D	27 / 00			
	D 21 H	17 / 00	239-242	D 21 C	7 / 00		D 21 F	5 / 00	358.1-360.3	D 21 F	3 / 00	80	B 22 D	23 / 06			
	D 21 H	19 / 00	243	D 21 C	7 / 14		D 21 J		361-362	D 21 H	11 / 00	81	B 22 D	23 / 00			
	D 21 H	21 / 00	244	D 21 C	7 / 02	309	D 21 F	9 / 02		D 21 H	13 / 00	90	B 22 D	19 / 12			
	D 21 H	23 / 00	245	D 21 C	7 / 00		D 21 F			D 21 H	15 / 00	91	B 22 D	19 / 00			
	D 21 H	25 / 00	246-247	D 21 C	7 / 06		D 21 H	11 / 00		D 21 H	17 / 00	92.1	B 22 D	19 / 10			
	D 21 H	27 / 00		D 21 C	7 / 08		D 21 H	13 / 00		D 21 H	19 / 00	93-97	B 22 D	19 / 14			
183-186	D 21 F	11 / 00	248-249	D 21 C	7 / 14		D 21 H	15 / 00		D 21 H	21 / 00		B 22 D	19 / 16			
	D 21 H	11 / 00	250	D 21 C	7 / 10		D 21 H	17 / 00		D 21 H	23 / 00		B 22 D	23 / 00			
	D 21 H	13 / 00	251	D 21 C	7 / 00		D 21 H	19 / 00		D 21 H	25 / 00	98-112	B 22 D	19 / 00			
	D 21 H	15 / 00		D 21 C	7 / 08		D 21 H	21 / 00		D 21 H	27 / 00	113-118	B 22 D	13 / 00			
	D 21 H	17 / 00	252-253	D 21 F	7 / 00		D 21 H	23 / 00		D 21 J	7 / 00	113	B 22 D	27 / 09			
	D 21 H	19 / 00	254	D 21 D			D 21 H	25 / 00	363-366	D 21 F	1 / 48	119	B 22 D	18 / 00			
	D 21 H	21 / 00		D 21 F	1 / 00		D 21 H	27 / 00		D 21 F	3 / 10		B 22 D	27 / 13			
	D 21 H	23 / 00	255	D 21 F	7 / 04	310	B 27 N	1 / 00	367-372	D 21 F	3 / 10	120	B 22 D	18 / 02			
	D 21 H	25 / 00	256	D 21 F			D 21 F		373-374	D 21 F	1 / 48		B 22 D	27 / 09			
	D 21 H	27 / 00		D 21 G	9 / 00		D 21 H	11 / 00	375-376	D 21 F	5 / 00		B 22 D	27 / 11			
187	D 21 H	11 / 00		D 21 J			D 21 H	13 / 00	377-379	D 21 D		121-126	B 22 D	27 / 04			
	D 21 H	13 / 00	257	D 21 F	1 / 36		D 21 H	15 / 00		D 21 J	3 / 00	121	B 22 D				
	D 21 H	15 / 00		D 21 F			D 21 H	17 / 00		D 21 H	23 / 00	122-126	B 22 D	7 / 10			
	D 21 H	17 / 00		D 21 J			D 21 H	19 / 00	380	D 21 H	23 / 00	122	B 22 D	30 / 00			
	D 21 H	19 / 00	258	D 21 F	1 / 08		D 21 H	21 / 00	381	D 21 F	5 / 18		B 22 D	27 / 00			
	D 21 H	21 / 00	259	D 21 F	1 / 06		D 21 H	23 / 00		D 21 F	3 / 00	122.1	B 22 D	25 / 00			
	D 21 H	23 / 00	260	B 28 B	1 / 42		D 21 H	25 / 00	382-395	D 21 J	7 / 00	127	B 22 D	15 / 00			
	D 21 H	25 / 00		D 21 F			D 21 H	27 / 00	396-410	D 21 J	3 / 00	128	B 22 D	27 / 04			
	D 21 H	27 / 00		D 21 J		311	D 21 F	9 / 02	411-416	D 21 J	3 / 00	129-130	B 22 D	23 / 00			
	D 21 H	27 / 06	261	D 21 B	1 / 32		D 21 F			D 21 J	7 / 00		B 22 D	47 / 00			
	D 21 H	11 / 00		D 21 D	1 / 00		D 21 H	11 / 00				131-132	B 22 D	29 / 00			
	D 21 H	13 / 00		D 21 F			D 21 H	13 / 00				133-136	B 22 D	1 / 00			
	D 21 H	15 / 00	262	D 21 F	7 / 02		D 21 H	15 / 00					B 22 D	23 / 00			
	D 21 H	17 / 00	263	D 21 F	7 / 06		D 21 H	17 / 00					B 22 D	35 / 00			
	D 21 H	19 / 00	264	D 21 F	1 / 66		D 21 H	19 / 00					B 22 D	37 / 00			
	D 21 H	21 / 00	265-266	D 21 H	11 / 00		D 21 H	21 / 00		1	B 21 G	1 / 00		B 22 D	39 / 00		
	D 21 H	23 / 00		D 21 H	13 / 00		D 21 H	23 / 00		2-3	B 21 G	1 / 06		B 22 D	37 / 00		
	D 21 H	25 / 00		D 21 H	15 / 00		D 21 H	25 / 00		4	B 21 G	3 / 32	137	B 22 D	33 / 04		
	D 21 H	27 / 00		D 21 H	17 / 00		D 21 H	27 / 00		5	B 21 G	3 / 18	138	B 22 C	1 / 00		
189-191	D 21 F	1 / 66		D 21 H	19 / 00	312	D 21 F	1 / 44		6	B 21 G	3 / 00		B 22 C	3 / 00		
192	D 21 D			D 21 H	19 / 00		D 21 F	1 / 48		7	B 21 G	3 / 04	139-140	B 41 D	3 / 00		
	D 21 F	1 / 64		D 21 H	21 / 00		D 21 H	11 / 00				141	B 41 D	3 / 20			
	D 21 F	5 / 00		D 21 H	23 / 00		D 21 H	11 / 00				142	B 41 D	3 / 24			
	D 21 J			D 21 H	25 / 00		D 21 H	13 / 00				143	B 41 D	3 / 22			
193	D 21 F	1 / 36	267-268	D 21 H	11 / 00		D 21 H	15 / 00				144-145	B 41 D	3 / 00			
194-195	D 21 F	11 / 00		D 21 H	13 / 00		D 21 H	17 / 00		1	B 22 C		144	B 41 D	3 / 28		
	D 21 J	1 / 02		D 21 H	15 / 00		D 21 H	19 / 00				146-149	B 22 D	11 / 07			
196	D 21 F	11 / 00		D 21 H	17 / 00		D 21 H	23 / 00		2-3	B 41 C	3 / 02	146	B 22 D	5 / 04		
	D 21 F	7 / 00		D 21 H	19 / 00		D 21 H	25 / 00			B 41 D	3 / 00		B 41 C			
197	D 21 F	11 / 00		D 21 H	21 / 00		D 21 H	27 / 00		4.1	B 22 D	46 / 00	150.1-151.5	B 22 C	19 / 00		
198	D 21 F	11 / 00		D 21 H	23 / 00		D 21 J			5-6	B 22 C		150.1-153	B 22 D	2 / 00		
	D 21 F	13 / 00		D 21 H	25 / 00	313	B 28 B	1 / 52		5	B 22 C	5 / 18	151	B 22 C	19 / 04		
199-200	D 21 F	1 / 32		D 21 H	27 / 00		D 21 F	1 / 44						B 22 C	25 / 00		
201	D 04 H	1 / 58		D 21 J	1 / 00		D 21 H	11 / 00		6	B 22 D	7 / 10		B 22 D	11 / 16		
	D 21 F			B 01 D	39 / 18		D 21 H	13 / 00		7.1-7.2	B 22 C	9 / 00		B 22 D	13 / 12		
	D 21 H		269	D 21 F			D 21 H	15 / 00			B 22 D	18 / 06		B 22 D	17 / 32		
	D 21 J			D 21 H			D 21 H	17 / 00		8	B 22 C	9 / 04	139-140	B 41 D	3 / 00		
202	D 21 F	11 / 00		D 21 J			D 21 H	19 / 00			B 22 D	7 / 02	141	B 41 D	3 / 20		
203	D 21 F	11 / 04	270	D 21 F			D 21 H	21 / 00		9-11	B 22 D	19 / 00	142	B 41 D	3 / 24		
	D 21 F	11 / 08		D 21 H			D 21 H	23 / 00		12	B 22 C	9 / 12	143	B 41 D	3 / 22		
204	D 21 F	11 / 00		D 21 J	3 / 00		D 21 H	25 / 00		13	B 22 C	7 / 00	144-145	B 41 D	3 / 00		
	D 21 F	2 / 00		D 21 J			D 21 H	27 / 00		14	B 22 C	3 / 00	144	B 41 D	3 / 28		
205-206	D 21 J		271	B 65 H	23 / 34		D 21 J			15-17	B 22 C	9 / 00	146-149	B 22 D	11 / 07		
	D 21 F	11 / 00		D 21 F		314	D 21 F	1 / 44		18	B 22 C	25 / 00	146	B 22 D	5 / 04		
	D 21 F	3 / 02		D 21 H			D 21 F	1 / 46						B 41 C			
207	D 21 J			D 21 J			D 21 H	11 / 00						B 41 D			
	D 21 F	11 / 00	272	D 21 F			D 21 H	13 / 00					152-153	B 22 C	19 / 04		
	D																

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Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation
U.S. CLASS 164--Con.																	
158	B 41 C		320	B 22 C	9/00	488-489	B 22 D	11/10	104.16	F 28 D	13/00	267-270	F 28 D				
	B 41 D		321	B 22 D	17/00	490	B 22 D	11/00	104.17-104.34	F 28 D	15/00		F 28 F	13/00			
159	B 22 C		322-323	B 22 C	9/20	491	B 22 D	11/10	108	F 28 F	13/06	267	F 25 D	23/12			
	B 22 D	7/10		B 22 D	5/00	492-514	B 22 D	27/02	109.1	F 28 F	13/12	268	C 12 Q	1/68			
160.1-160.2	B 22 C	9/12	324-328	B 22 D	5/02	502-509	B 22 D	11/00	110	F 28 B	1/00	269	G 05 D	23/19			
161-162	B 22 C	13/02	329-331	B 22 D	5/04	515	B 22 C	11/00	111-114	F 28 B	3/00	270	G 05 D	23/24			
161-163	B 22 C	13/14	332-334	B 22 D	17/24		B 22 D	23/10		F 28 B	9/10	271	B 60 H	1/00			
164	B 22 C	13/04		B 22 D	19/00	516	B 22 C	9/00	115-116	F 28 D		272-278	F 28 F	27/00			
165-166	B 22 C	13/08	335	B 22 D	41/00	517	B 22 C	1/00	115-118	A 23 C	3/04	279-286	G 05 D	15/00			
167-168	B 22 D	47/02		B 22 D	41/05		B 22 C	11/00	115	F 28 D	5/02		G 05 D	16/00			
169	B 22 C	15/00	336	B 22 D	41/04	518-519	B 22 C	1/02	116	B 01 D	5/00	279-300	G 05 D	23/00			
170-171	B 22 C	15/08	337	B 22 D	37/00	518	B 22 C	9/12	117	F 28 D	3/02	301-302	F 28 F	27/00			
172	B 22 C	15/00		B 22 D	39/00	519	B 22 C	9/00	118	F 28 D	3/00		G 05 D	9/00			
173	B 22 C	15/08		B 22 D	41/00	520-521	B 22 C	9/12	119	F 28 F	13/12	303	F 24 B	13/00			
174	B 22 C	13/16	338.1-338.2	B 22 D	27/04	520	B 22 C	1/00		F 28 F	19/00		F 28 G				
175	B 22 C	15/20	338.1	B 22 D	41/01	521	B 22 C	9/10	120-121	F 24 H	3/02						
176-179	B 22 C	13/10		B 22 D	41/015	522-529	B 22 C	9/00		F 28 F							
180-182	B 22 C	17/00	339-341	B 22 D	33/04	522	B 22 C	1/04	120	B 29 C	47/88						
183	B 22 C	17/08	342-343	B 22 D	17/26	523	B 22 C	1/02	121	H 01 L	23/467						
184	B 22 C	17/12	344-347	B 22 D	17/22	524	B 22 C	1/04	122-127	F 08 F	13/12						
185	B 22 C	17/14		B 22 D	29/00	525	B 22 C	1/16	122	F 24 H	3/06						
186	B 22 C	13/12	348	B 22 D	27/04	526-529	B 22 C	1/22	123	F 24 F	3/04						
187-188	B 22 C	15/00		B 22 D	41/005				124-127	F 24 B	1/06						
189	B 22 C	19/06	349-351	B 22 C	9/00				128-129	F 24 H	9/02						
190	B 22 C	17/06	352-357	B 22 D	15/00				128	F 24 H	3/00						
191	B 22 C	17/04	358-360	B 22 C	9/08				130-131	F 24 H	3/00						
192-193	B 22 C	5/12	359-361	B 22 C	9/02	4-5	F 28 D	17/00	130	F 28 F	9/26						
194	B 22 C	15/00	362-363	B 22 C	9/08	4-9.4	F 23 L	15/02	132	F 28 D	1/06						
195	B 22 C	15/28	364	B 22 C	9/00	10	F 28 D	17/00	133	F 28 F	13/18						
196-197	B 22 C	15/30	365-370	B 22 C	9/10		F 28 D	19/00		F 28 F	19/02						
198-199	B 22 C	15/20	371-373	B 22 D	15/00	11.1-11.2	F 28 F		134.1	F 28 F	19/00						
200-202	B 22 C	9/12	374-375	B 22 C	21/00	11.1	B 60 H	1/00	135-136	F 28 F	13/00						
203	B 22 C	15/10	376	A 61 C	13/20	11.2	F 22 B	37/00	137-139	F 28 F	7/00						
204	B 22 C	15/30		B 22 C	21/10	41	B 60 H	1/00	140-141	F 28 D	7/10						
205	B 22 C	15/10	377-378	B 22 C	21/02		F 28 F		142	F 28 D	7/12						
206	B 22 C	15/14	379-383	B 22 C	21/14	42-44	B 60 H	3/00	143-144	F 28 F	9/26						
207-212	B 22 C	15/02	384-396	B 22 C	21/00		B 61 D	27/00	145	F 28 F	9/22						
213-214	B 22 C	17/00	397-400	B 22 C	21/14	45	F 24 J	3/08	146	F 28 F	13/00						
215-216	B 22 C	9/22	401	B 22 C	17/00		F 28 D		147	F 28 F	13/08						
217-221	B 22 C	17/06		B 22 D	11/128	46	F 28 F	7/00	148-150	F 28 D	1/00						
222	B 22 C	7/00		B 22 D	29/00	47	F 24 H	3/00	151	F 28 D	1/04						
223	B 22 C	19/06		B 22 D	29/08	48.1-48.2	F 25 B	29/00	152-153	F 28 D	1/02						
224	B 22 C	17/08	402	B 22 D	17/00	49	F 24 D	19/02	154-155	F 28 D	7/10						
225	B 22 C	17/04	403	B 22 D	17/06		F 24 H	9/06	155	F 28 D							
226	B 22 C	17/02	404-407	B 22 D	29/00	50	F 24 F	3/00	156	F 28 D	7/12						
227	B 22 C	17/00	408	B 22 D	29/06	51	F 01 N	5/02	157	F 28 D	7/10						
228-234	B 22 C	11/00	409	B 22 C	17/08		F 01 P		158	F 28 F	9/02						
	B 22 C	13/12	410	B 22 C	23/00	52	F 02 M	31/08	159-161	F 28 F	9/22						
	B 22 C	7/06	411-412	B 22 C	21/14		F 02 P		159-162	F 28 D	7/00						
235-238	B 22 C	7/00	412	B 22 C		53	F 24 D	19/02	162	F 28 F	9/00						
239-243	B 22 C	7/04		B 22 D			F 24 D	5/10	163-165	F 28 D	7/02						
244-245	B 22 C	7/00	413-414	B 22 D	11/16		F 24 H	9/06	163	F 28 D							
	B 22 C	9/22	415	B 22 D	11/00	54	F 24 H	3/02	166	F 28 F	3/00						
246	B 22 C	7/02	416	B 22 D	11/04	55	F 24 D	19/02	167	F 28 F	3/08						
247-249	B 22 C	7/00	417	B 22 D	11/12		F 24 D	19/06	168-169	F 28 F	3/12						
	B 22 C	9/22	418	B 22 D	11/00		F 24 H	9/06	170	F 28 F	3/14						
250.1	B 22 D	13/06	419	B 22 D	19/00	56-57	F 24 H		171	F 28 F	1/32						
	B 22 D		420-421	B 22 D	11/00	56	F 24 D	3/16	172	F 28 F	1/10						
253-258	B 22 D	18/06	422	B 22 D	13/02	57	F 28 D	1/02	173-175	F 28 F	9/02						
	B 22 D	27/15	423	B 22 D	11/00	58	F 25 B	29/00	176	F 28 D	7/06						
259	B 22 D	27/00	424	B 22 D	11/12	59	F 24 F	7/00	177	F 28 F	1/00						
260-261	B 22 D	27/08	425-426	B 22 D	11/08	60	F 24 F	3/14	178	F 28 F	9/04						
262	B 22 D	11/126	427-434	B 22 D	11/06	61	F 25 B	29/00	179	F 28 F	1/42						
263	B 22 D	11/12	435-436	B 22 D	11/04	62	F 25 B	13/00	180	F 28 F	21/00						
264-265	B 22 D	31/00	437-440	B 22 D	11/10	63-65	F 25 B	29/00	181	F 28 F	1/20						
266	B 22 D	1/00	441-442	B 22 D	11/12	66	A 23 C	3/02	182	F 28 F	1/30						
267	B 22 D	13/10	443-444	B 22 D	11/124	67-68	F 28 F	9/00	183-184	F 28 F	1/14						
	B 22 D		445-446	B 22 D	11/08	69	F 28 F	7/00		F 28 F	1/36						
268	B 22 D	11/12	447-448	B 22 D	11/12	70	F 28 F	11/00	185	F 28 F	7/00						
269	B 22 D	45/00	449.1	B 22 D	11/16	71	F 16 F	1/34	186-201	F 28 F							
	B 22 D	47/00		B 22 D	11/18	72-75	F 28 D	1/06	186	A 61 C	5/06						
270.1	B 22 C	5/08	450.1-450.5	B 22 D	11/16	76-83	F 28 F	7/00	200	F 28 D							
	B 22 D			B 22 D	11/18	84	F 28 D	11/06		F 28 F	27/00						
271	B 22 D	11/00	451	B 22 D	11/00		F 28 G	7/00	201	A 47 J	39/00						
272	B 22 D	45/00		B 22 D	46/00	85	F 24 H	3/02		F 25 B	29/00						
284-285	B 22 D	17/00	452	B 22 D	11/16		F 28 F	25/10	202-204	B 60 H							