

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 159--Con.														
48.2	F 26 B	3/12		E 05 F	13/00	10-11	D 21 C	9/00		D 21 C	3/26		D 21 H	21/00
49	B 01 D	1/22		E 05 F	15/00		D 21 H	23/00	86	D 21 C	3/00		D 21 H	23/00
			194-198	E 05 D	15/06	12	D 21 H	23/00	87	D 21 C	3/18		D 21 H	25/00
			199	E 05 D	15/26	13	D 21 C	3/00	88	D 21 C	3/18	119-122	D 21 H	27/00
			200	E 05 D	15/06		D 21 C	9/10		D 21 C	3/26		D 21 F	13/00
				E 06 B	3/48		D 21 F		89	D 21 C	3/02		D 21 H	11/00
				E 06 B	3/96	14	D 21 C	11/00		D 21 C	3/26		D 21 H	13/00
			201-205	E 05 D	15/00	15	D 21 C	11/06	90	D 21 C	3/02		D 21 H	15/00
			206-213	E 05 D	15/26	16	D 21 C	11/00	91	B 27 N	1/00		D 21 H	17/00
			208-214	E 05 D	15/00	17-19	D 21 C	3/26		D 01 C			D 21 H	19/00
			215-228	E 06 B	3/12	20	D 01 B	1/14		D 21 C			D 21 H	21/00
			215-236	E 06 B	9/00		D 01 C	1/02	92	D 01 B	1/50		D 21 H	23/00
			229.1	E 06 B	3/48		D 21 C			D 01 C	1/00		D 21 H	25/00
				E 06 B	7/086	21-22	D 21 B	1/36	93-97	D 01 C	1/00		D 21 H	27/00
				E 06 B	3/12	23	D 21 B	1/12		D 21 C	5/00		D 21 J	5/00
			230	E 06 B	3/48		D 21 B	1/30	98	A 01 H	5/02	123-133	D 21 F	11/00
			231.1-231.2	E 06 B	7/086	24-25	D 21 B	1/16		D 01 B			D 21 F	13/00
				E 06 B	3/12	26-27	D 21 B	1/04		D 01 C	1/02		D 21 H	11/00
			202-213	A 47 H	23/00	28	D 21 B	1/04		D 21 C	5/00		D 21 H	13/00
			237	A 47 G	5/02		D 21 C	3/26	99	D 01 C	1/00		D 21 H	15/00
			238-265	A 47 H	1/00	29	D 21 C	11/00		D 21 C	5/00		D 21 H	17/00
				A 47 H	3/00	30-1-35	D 21 C	11/12	100	D 21 C	9/00		D 21 H	19/00
				E 06 B	9/17		D 21 C	11/14		D 21 F			D 21 H	21/00
			266	A 47 G	5/02	36	D 21 C	11/00		D 21 H	23/00		D 21 H	23/00
			267.1-268.1	E 06 B	9/56	37	D 21 C	9/10		D 21 J			D 21 H	25/00
				A 47 H	3/00		D 21 C		101-102	D 21 H	11/00		D 21 H	27/00
			269-272	E 06 B	9/17	38	D 21 C	11/06		D 21 H	13/00	134	B 44 F	5/00
				A 47 G	5/02		D 21 C			D 21 H	15/00		D 21 F	11/00
			273.1	E 06 B	9/56	39	D 21 C	1/00		D 21 H	17/00		D 21 F	13/00
				A 47 H	3/00		D 21 C			D 21 H	19/00		D 21 H	11/00
			274-289	E 06 B	9/17	40	D 21 C	9/10		D 21 H	21/00		D 21 H	13/00
				E 06 B	9/56		D 21 C			D 21 H	23/00		D 21 H	15/00
			290.1-332	A 47 G	5/02	41	D 21 C	3/02		D 21 H	25/00		D 21 H	17/00
			290.1	A 47 H	1/00		D 21 C			D 21 H	27/00		D 21 H	19/00
			309-322	A 47 G	5/02	42-43	D 21 C	3/22	103	B 32 B	5/20		D 21 H	21/00
			309-323.1	A 47 H	1/13		D 21 C			D 21 H	23/00		D 21 H	23/00
			323.1	E 06 B	9/17	44	D 21 C	7/14	104-109	D 21 H	11/00		D 21 H	25/00
				A 47 H	1/13		D 21 C			D 21 H	13/00		D 21 H	27/00
			326	A 47 H	23/00	45	D 21 C	3/22		D 21 H	15/00	135-138	D 21 F	11/00
			327-329	E 06 B	3/80		D 21 C			D 21 H	17/00		D 21 F	13/00
				A 47 H	1/00	46	D 21 C	11/10		D 21 H	19/00		D 21 H	11/00
			330-339	A 47 H	5/00		D 21 C			D 21 H	21/00		D 21 H	13/00
			340-341	A 47 H	5/04	47	D 21 C	11/06		D 21 H	23/00		D 21 H	15/00
				A 47 H	5/06	48-49	D 21 C	7/14		D 21 H	25/00		D 21 H	17/00
			343	A 47 H	5/00		D 21 C			D 21 H	27/00		D 21 H	19/00
			344-347	A 47 H	13/14	50	D 21 C	5/00		D 21 H	27/00		D 21 H	21/00
			348	A 47 H	1/00	51	D 21 C	11/08	110	D 21 F	1/44		D 21 H	21/00
			349.1	A 47 H	23/01	52	D 21 C	1/10		D 21 H	11/00		D 21 H	23/00
				A 47 H	19/00		D 21 C	5/00		D 21 H	13/00		D 21 H	25/00
			349.2	A 47 H	7/00		D 21 C	7/06		D 21 H	15/00	139	D 21 H	27/00
			350	A 47 G	5/00	53-54	D 21 C	1/10		D 21 H	17/00		D 21 F	11/00
			352-353	E 06 B	9/24		D 21 C	5/00		D 21 H	19/00		D 21 H	13/00
			352	E 06 B	9/00		D 21 C	5/02		D 21 H	23/00		D 21 H	15/00
			353	A 47 G	5/00		D 21 C	9/08		D 21 H	25/00		D 21 H	17/00
				E 06 B	3/30	55	D 21 C	9/08		D 21 H	27/00		D 21 H	19/00
				E 06 B	3/80	56	D 21 C	5/00	111-113	B 31 F	1/12		D 21 H	21/00
			354	A 47 H	23/00		D 21 C	9/00		D 21 H	11/00		D 21 H	23/00
			368.1	A 47 H	13/00	57-58	D 21 C	3/22		D 21 H	13/00		D 21 H	25/00
				A 47 H	15/00		D 21 C	7/00		D 21 H	15/00	140	D 21 H	27/00
				E 06 B	3/00	59	D 21 C	7/14		D 21 H	17/00		B 44 F	1/12
				E 06 B	9/00	60	D 21 C	9/02		D 21 H	19/00		D 21 F	11/00
			368.2	A 47 G	9/00	61	D 21 C	7/12		D 21 H	21/00		D 21 H	11/00
			369-370	A 47 H	15/00		G 01 N			D 21 H	23/00		D 21 H	13/00
				A 47 H	3/00		G 05 B			D 21 H	25/00		D 21 H	15/00
				E 06 B	3/00	62	D 21 C	3/06		D 21 H	27/00		D 21 H	17/00
				B 60 J	5/00		D 21 C	7/12	114	D 21 F	11/00		D 21 H	19/00
			370.1	E 06 B	5/00		G 01 N			D 21 H	11/00		D 21 H	21/00
				B 60 J	1/20	63	D 21 C	9/10		D 21 H	13/00		D 21 H	23/00
			370.21-370.23	B 60 J	11/00		D 21 C			D 21 H	15/00		D 21 H	25/00
				B 60 J	3/00	64	D 21 C	3/26		D 21 H	17/00	141-153	D 21 H	27/00
				A 47 G	5/00		D 21 C			D 21 H	19/00		D 21 F	11/00
			371-381	E 06 B	3/30	65	D 21 C	9/10		D 21 H	21/00		D 21 H	11/00
				E 06 B	9/24		D 21 C			D 21 H	23/00		D 21 H	13/00
				A 47 H	23/00	66	D 21 C	9/12		D 21 H	25/00		D 21 H	15/00
			382	A 47 H	3/00		D 21 C			D 21 H	27/00		D 21 H	17/00
				A 47 H	13/00	67	D 21 C	9/14	115-117	D 21 F	11/00		D 21 H	19/00
			383-404	A 47 H	7/00		D 21 C			D 21 F	13/00		D 21 H	21/00
			405				D 21 C			D 21 H	11/00		D 21 H	23/00
						68	D 21 C	1/02		D 21 H	13/00		D 21 H	25/00
							D 21 C			D 21 H	15/00	154	D 21 H	27/00
						69-70	D 21 C	3/22		D 21 H	17/00		C 04 B	14/40
							D 21 C			D 21 H	19/00		D 21 F	11/00
						71	D 21 C	9/10		D 21 H	21/00		D 21 H	11/00
				D 01 B			D 21 C			D 21 H	23/00		D 21 H	13/00
			1	D 01 C		72	D 21 C	3/20		D 21 H	25/00		D 21 H	15/00
				D 21 B		73	D 21 C	3/20		D 21 H	27/00		D 21 H	17/00
				D 21 C	9/08		D 21 C		118	B 28 B	21/48		D 21 H	19/00
				D 21 C		74-77	D 21 C	3/20		B 31 C			D 21 H	21/00
				D 01 C	3/00	78-80	D 21 C	3/16		D 21 F	5/00		D 21 H	23/00
			2	C 03 B	37/00		D 21 C			D 21 H	11/00		D 21 H	25/00
			3	D 21 B	1/08	81	D 21 C	3/00		D 21 H	13/00		D 21 H	27/00
			4	D 21 C	1/32	82	D 21 C	3/04		D 21 H	15/00	155-157.7	D 21 F	11/00
				D 21 C	5/02	83	D 21 C	3/04		D 21 H	17/00		D 21 H	11/00
				D 21 C	5/02	84	D 21 C	3/26		D 21 H	19/00		D 21	

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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 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	21 / 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	23 / 00		D 21 H	11 / 00				141	B 41 D	3 / 20			
	D 21 F	5 / 00		D 21 H	25 / 00		D 21 H	13 / 00				142	B 41 D	3 / 24			
	D 21 J			D 21 H	27 / 00		D 21 H	15 / 00				143	B 41 D	3 / 22			
193	D 21 F	1 / 36	267-268	D 21 H	11 / 00		D 21 H	17 / 00				144-145	B 41 D	3 / 00			
194-195	D 21 F	11 / 00		D 21 H	13 / 00		D 21 H	19 / 00		1	B 22 C		144	B 41 D	3 / 28		
	D 21 J	1 / 02		D 21 H	15 / 00		D 21 H	21 / 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		B 41 D			
198	D 21 F	11 / 00		D 21 H	23 / 00		D 21 J			5-6	B 22 C		150.1-151.5	B 22 C	19 / 00		
	D 21 F	13 / 00		D 21 H	25 / 00	313	B 28 B	1 / 52		5	B 22 C	5 / 18	150.1-153	B 22 C	2 / 00		
199-200	D 21 F	1 / 32		D 21 H	27 / 00		D 21 F	1 / 44					151	B 22 C	19 / 04		
201	D 04 H	1 / 58		D 21 J	1 / 00		D 21 H	11 / 00		6	B 22 D	7 / 10		B 22 C	25 / 00		
	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	11 / 16		
	D 21 H		269	D 21 F			D 21 H	15 / 00						B 22 D	13 / 12		
	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				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				143	B 41 D	3 / 22			
204	D 21 F	11 / 00		D 21 J	3 / 00		D 21 H	25 / 00				144-145	B 41 D	3 / 00			
	D 21 F	2 / 00		D 21 J			D 21 H	27 / 00				144	B 41 D	3 / 28			
205-206	D 21 J		271	B 65 H	23 / 34		D 21 J					146-149	B 22 D	11 / 07			
	D 21 F	11 / 00		D 21 F		314	D 21 F	1 / 44				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		D 21 F			D 21 H	13 / 00				150.1-151.5	B 22 C	19 / 00			
	D 21 F	5 / 18		D 21 G	3 / 00		D 21 H	15 / 00				150.1-153	B				