

**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
<b>U.S. CLASS 28--Con.</b>														
159	D 06 C	23/02		D 03 D	15/00	219	D 02 G	1/00	7	B 21 K	1/44	52	B 23 C	1/00
160	D 06 C	23/02	185	B 65 H	59/00		D 02 G	3/00	7.1-7.3	B 21 F	25/00	53	B 23 B	11/00
161	A 44 B	21/00		B 65 H	61/00		D 02 J	1/00	8	B 23 P	13/00		B 23 B	35/00
	D 06 C	13/08		B 65 H	63/00		D 02 J	11/00	9	B 21 F	45/12	54-56.6	B 23 C	1/00
162	D 06 C	23/02		C 08 G	69/02		D 02 J	3/00	10	B 23 P	5/00	57	B 23 B	25/00
163	B 41 F			D 02 H	13/02		D 02 J	7/00	11	B 21 D	53/40		B 23 Q	39/00
	D 06 B	1/00		D 02 H	13/14	220	D 02 G	1/20		B 21 K	13/02	64	B 23 P	23/00
	D 06 C	23/00		F 26 B	13/12		D 02 J	11/00	12	B 23 P	13/00	65	B 23 P	23/00
	D 06 C	29/00	186	B 65 H	63/00	221	D 02 G	1/12	13	B 21 F	45/22		B 23 Q	5/00
	D 06 J			C 08 G	69/02	222	D 02 J	11/00		B 21 F	45/24	76.1-76.4	B 23 D	67/00
	D 06 P	3/86		D 02 H	13/02	223	B 65 H	63/06	14	B 21 H	7/06		B 23 D	69/00
	D 06 P	5/00		F 26 B	13/12		D 02 J	3/00		B 21 K	19/02	77	B 23 D	73/02
164	D 05 C	7/10	187	B 65 H	63/00		D 02 J	7/00	15-16	B 23 P	13/00	81.01-81.17	B 21 B	45/04
	D 06 Q	1/02		C 08 G	69/02	224	D 02 J	3/14	17.1-17.2	B 21 D	33/00		B 21 C	43/00
165	D 06 C	15/00		D 02 H	13/08	225	B 65 H	63/06	17.3-18.1	B 21 D	33/00		B 23 K	7/00
	D 06 M			F 26 B	13/12	226	B 65 H	63/06		B 32 B	37/00	89.5	B 23 P	25/00
166	B 65 H	71/00	188-189	B 65 H	63/00		D 02 J	3/12	20	B 21 D	33/00		B 23 P	9/00
	D 06 M			C 08 G	69/02		D 02 J	3/16	20.1	B 26 D	3/10	90.01	B 21 C	37/30
167	C 08 G	79/02		D 02 H	13/06	227-229	B 65 H	63/06	21-22	B 23 P	17/00		B 24 B	39/00
	D 06 C	29/00		F 26 B	13/12	230-239	D 02 J	3/14	23.1	B 23 P	13/00	90.1-90.5	B 24 B	39/00
	D 06 M		190	B 65 H	54/00	240-242	D 02 J	1/22	23.51	B 21 D	53/78	90.6-90.7	B 21 C	37/30
	F 26 B	13/00		C 08 G	63/02	243	D 02 J	1/06		B 21 K	3/04		B 24 B	39/00
168	C 08 G	79/02		C 08 G	63/18	244-246	D 02 J	1/22		B 23 P	15/02	91-91.1	B 68 G	7/00
	D 06 H	7/22		D 02 H	13/00	247-251	D 02 G	1/00	24	B 23 P	17/00	91.2-91.4	B 68 G	7/08
	D 06 Q	1/02		D 02 H	3/00		D 02 J	1/00	24.5	B 23 P	19/04	91.5	B 68 G	7/00
169	B 29 C	70/22		D 02 H	5/00	252-253	D 02 G	3/24	25	B 21 F	41/00	91.6	B 68 G	7/10
	C 08 G	79/02		D 02 H	7/00		D 02 J	1/06	25.01-25.02	H 01 L	21/00	91.7-91.8	B 68 G	15/00
	D 06 B		191	B 65 H	54/12	254-257	D 02 G	1/12		H 01 L	21/64	213.1-221.6	B 23 P	19/04
	D 06 P			C 08 G	63/02		D 02 G	1/16	25.03	H 01 G	9/00	222-224	B 23 P	15/10
	D 06 Q			C 08 G	63/68	258	D 02 G	1/20	25.35	H 01 L	41/22	225-232	B 23 P	19/04
170	C 08 G	73/10		D 02 H	13/34	259-261	D 02 G	1/10		H 04 R	17/00	233	B 23 P	15/18
	D 06 H	7/00	192	B 65 H	54/12	262	D 02 G	1/12	25.41-25.42	H 01 G	7/00	234	B 23 P	19/04
	C 08 G	75/00		D 02 H	13/30		D 02 J	1/04	26A-26B	B 23 B	39/00	235-236	B 23 P	19/02
171	D 04 B	19/00	193	B 65 H	67/00	263-270	D 02 G	1/12	26R	B 23 B	39/02	237-241	B 23 P	19/04
172.1	B 65 H			D 02 H	1/00	271-276	D 02 G	1/16		B 23 Q	1/54	242	B 21 K	5/00
	C 08 G	75/00	194	B 65 H	59/00		D 02 J	1/08		B 23 Q	3/157	243	B 23 P	19/04
	D 02 H	13/38		B 65 H	77/00	277	D 02 G	1/00	27A	B 23 Q	37/00	243.5-243.58	B 23 P	11/00
	D 02 H			D 02 H	13/22	278-280	D 02 J	3/10	27B	B 23 B	5/00	244-250	B 23 P	19/04
	D 03 J		195	B 65 H	54/28	281	D 02 G	1/14	27C	B 23 B	27/00	251	B 23 P	19/02
	D 06 B			D 02 H	13/00		D 02 G	1/18	27R	B 23 B	7/00	252-269	B 23 P	19/04
	D 06 C		196	B 65 H	54/46		D 02 G	1/20		B 23 B	9/00	270	B 25 B	27/00
	F 26 B			B 65 H	54/52		D 02 G	3/24	28	B 23 B	25/00	271-281.6	B 25 B	27/14
172.2	B 65 H			D 02 H	13/00		D 02 J	1/12	29	B 23 B	5/28	282	B 21 D	39/04
	C 08 G	75/00	197	B 65 H	54/46	282-283	D 01 D	11/02	30	B 23 B	1/00		B 23 P	19/04
	D 02 H			D 02 H	13/00		D 02 J	1/18	33A	B 22 D	31/00	283-283.5	B 23 Q	1/00
	D 03 J		198	D 02 H	9/00	284-285	B 05 C		33B	B 21 C	47/00		B 23 Q	3/00
	D 06 B			D 02 H	9/02		D 01 D	10/00	33C	B 21 B	1/46		B 23 Q	7/04
	D 06 C	3/00	199	D 03 J	1/13		D 06 C	29/00	33D	B 21 C	37/06	284	B 21 D	53/00
	D 06 C	5/00		B 65 H	57/16		D 06 L		33E	H 01 B	13/22		B 23 P	13/00
	F 26 B			D 02 H	13/16		D 06 M		33F	B 21 C	1/00		B 23 P	15/00
173	C 08 G	75/00		D 02 H	9/00		D 06 P			B 21 C	23/08		B 23 P	17/00
	D 02 H	11/00	200	B 65 H	79/00		D 06 P		33G	B 21 D	53/02	401.1	B 21 K	21/16
	D 06 C	13/00		D 02 H	13/12	286	B 05 C		33H	B 23 C	3/00		B 23 P	17/04
	D 06 C	9/00		D 06 B	3/34		D 01 D	10/00	33J	B 23 P	23/00		B 23 P	23/00
174	C 08 G	75/00	201	B 65 H	67/00		D 02 G	1/02		B 23 Q	39/00	402.01	B 23 P	6/00
	D 06 C	9/00		B 65 H	69/00		D 06 L		33K	B 23 P	19/00		B 29 C	73/00
175	B 65 H	54/66		D 03 J	1/00		D 06 M			B 23 P	21/00	402.02	B 23 P	23/00
	C 08 G	75/00	202	B 65 H	67/08		D 06 P		33L	H 02 K	15/00		B 23 P	6/00
	D 04 B	31/00		D 03 J	1/14	287	B 05 C		33M	H 01 R	43/00	402.03	B 23 P	19/04
176	B 65 B	11/00	203.1	B 65 H	67/00		D 01 D	10/04	33N	B 21 D	53/00		B 23 P	23/00
	B 65 H	37/00		D 03 J	1/14		D 02 G	1/18		B 23 P	19/00		B 23 P	6/00
	C 08 G	63/12	204-207	D 03 J	1/14		D 06 L			B 23 P	21/00	402.04-402.09	B 23 P	19/04
	C 08 G	63/18	207.1	B 65 H	67/00		D 06 M		33P	B 23 Q	7/00		B 23 P	6/00
177	C 08 G	63/46		D 03 J	1/14		D 06 P		33Q	B 21 D	21/00	402.11-402.17	B 23 P	6/00
	C 08 G	63/91		D 03 J	3/00	288	B 05 C			B 21 D	35/00	402.18	B 22 D	19/10
	D 04 B	31/00	208	B 65 H	1/00		D 01 D	10/04	33R	B 21 B	15/00		B 23 K	9/04
178	B 65 H	71/00		B 65 H	75/38		D 06 C	29/00		B 21 D	39/03		B 23 P	6/00
	C 08 G	63/46		D 02 H	13/38		D 06 L			B 23 P	23/04	402.19-402.21	B 21 D	1/00
	D 02 H	5/02	209-210	B 65 H	69/00		D 06 M			B 23 P	25/00		B 21 D	3/16
	D 06 B	1/14		D 03 J	1/18		D 06 P		33S	B 21 B	1/24		B 23 P	6/00
	D 06 B		211	B 65 H	69/04	289-290	B 65 H	54/00		B 21 D	53/00	403.1	B 07 B	13/00
179-180	C 08 G	63/00		D 03 J	1/18		B 65 H	71/00	33T	B 23 D	21/00		B 23 P	17/04
	D 02 H	5/02	212	B 65 H	57/16	291	B 65 H	54/62	33.2	A 41 H	37/06	403.2	B 30 B	9/32
	D 06 B	15/00		D 02 H	13/16		B 65 H	71/00		B 29 D	5/00	403.3-403.4	B 23 P	19/04
	F 26 B	13/00		D 02 H	13/20	292-298	B 65 H	73/00		B 23 P	23/04		H 01 B	15/00
181	C 08 G	63/00	213	B 65 H	57/16	299	D 01 G	11/04	33.5-33.52	A 44 B	19/00		H 02 G	1/12
	D 02 H	5/02		D 02 H	13/18		D 06 M		34A	B 21 J	15/00	404-406	B 23 Q	17/00
	D 02 H	9/00	214	D 03 D	39/04				34C	B 21 K	1/02	407.01-407.1	B 23 Q	17/00
	D 02 H	9/02	215-216	D 03 D	39/06				34D	B 21 F	1/00		G 01 M	19/00
	D 06 B	15/00	217	B 05 C					34R	B 21 D	53/00	408	B 21 D	53/50
	F 26 B	13/00		B 65 H						B 21 D	53/08		B 21 F	45/18
182	C 08 G	63/00		D 01 D		2	B 23 P	13/00		B 21 J	15/10		B 29 D	5/00
	D 02 H	5/02		D 02 G	1/20	2.1-2.25	H 01 M	4/82	35.5-36	B 23 B	3/16	409	B 21 D	53/54
	D 06 B	3/10		D 02 H			B 21 D							

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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
<b>U.S. CLASS 29--Con.</b>																	
432-432.2	B 23 P	11 / 00		H 01 H	65 / 00	888.042	B 23 P	15 / 10		B 23 P	17 / 00				B 21 K		1 / 04
433	B 23 P	19 / 04	623	H 01 H	69 / 02	888.043	B 23 K	15 / 00	891-891.2	B 21 D	53 / 60				B 23 P		17 / 00
434-444	B 23 P	11 / 00	623.1-623.5	H 01 M	4 / 82		B 23 K	26 / 00		B 21 K	19 / 00	898.052-898.055			B 21 D		53 / 00
445	B 23 P	9 / 00		H 01 M	6 / 00	888.044-888.045	B 21 K	1 / 18		B 23 P	17 / 00				B 21 K		1 / 76
446-451	B 23 P	11 / 02	650-700	B 23 P	19 / 00		B 23 P	11 / 00	892-892.2	B 21 K	1 / 42				B 23 P		17 / 00
452	B 21 D	39 / 00	701-722	B 23 P	21 / 00	888.046	B 21 K	1 / 18		B 23 P	17 / 00	898.06-898.062			B 21 D		53 / 10
453	B 23 P	11 / 02		B 23 Q	15 / 00	888.047	B 22 D	19 / 00	892.3	B 23 P	17 / 00				B 21 K		1 / 76
454	B 23 P	19 / 04	723	B 23 P	19 / 00		B 23 P	11 / 00	893-893.37	B 21 D	53 / 28				B 23 P		17 / 00
455.1	B 21 D	39 / 00	724-725	B 21 D	53 / 10	888.048	B 23 P	11 / 00		B 21 K	1 / 30	898.063			B 21 D		53 / 10
	B 23 P	19 / 04		B 23 P	19 / 04		B 23 P	15 / 10		B 23 P	15 / 14				B 21 K		1 / 04
456-457	B 21 D	39 / 00	726-727	B 23 P	15 / 26	888.049	B 23 P	11 / 00	894	B 21 D	53 / 26				B 23 P		17 / 00
	B 23 P	19 / 00	728	B 23 P	19 / 04		B 23 P	15 / 06	894.01-894.012	B 21 D	53 / 26	898.064			B 21 D		53 / 10
458-459	B 23 P	25 / 00	729	B 23 P	19 / 00	888.05	B 21 K	1 / 44		B 21 H	1 / 04				B 21 K		1 / 76
460	B 23 P	19 / 04		H 01 R		888.051-888.061	B 23 P	11 / 00		B 21 H	1 / 08				B 23 P		17 / 00
461	B 23 P	25 / 00		H 05 K	13 / 04	888.07	B 21 K	1 / 14		B 23 P	15 / 20	898.065			B 23 P		17 / 00
462	B 23 P	19 / 00	730	B 23 P	19 / 00		B 23 P	15 / 08	894.1-894.3	B 21 D	53 / 26	898.066			B 21 D		53 / 10
	B 23 P	25 / 00		H 01 M	10 / 14	888.071-888.076	B 23 P	15 / 06	894.31	B 21 D	53 / 26				B 21 K		1 / 04
463	B 21 D	39 / 02		H 01 M		888.08	B 23 P	17 / 00		B 21 K	1 / 38				B 23 P		17 / 00
464-468	B 23 Q	3 / 00	731	B 23 P	19 / 00	888.09-888.092	B 21 D	53 / 84		B 23 P	17 / 00	898.067			B 21 D		53 / 12
469	B 23 P	21 / 00		H 01 M	2 / 04		B 23 P	17 / 00	894.32	B 21 D	53 / 26				B 21 K		1 / 05
469.5	B 21 D	35 / 00		H 01 M		888.1-888.2	B 21 D	53 / 84		B 21 K	1 / 32				B 23 P		17 / 00
505-506	B 21 D	39 / 00	732	B 23 P	19 / 00		B 21 K	1 / 12	894.321-894.325	B 23 P	17 / 00	898.068-898.068			B 21 D		53 / 10
	B 23 P	11 / 00		H 02 K	15 / 00	888.3	B 21 D	53 / 84	894.33-894.34	B 21 D	53 / 26				B 21 K		1 / 02
507-508	B 21 D	39 / 00	733-736	B 23 P	19 / 00	888.4	B 21 K	1 / 22	894.341-894.345	B 21 K	1 / 34				B 23 P		17 / 00
	B 23 P	11 / 02	737	B 23 P	19 / 00	888.41	B 21 K	1 / 20		B 23 P	17 / 00	898.07-898.15			B 21 D		53 / 10
509-521	B 21 D	39 / 00		G 11 C	5 / 12	888.42	B 21 K	1 / 22	894.35-894.354	B 21 K	1 / 38				B 21 K		1 / 76
	B 23 P	11 / 00		H 01 M		888.43	B 21 K	1 / 20		B 23 P	17 / 00				B 23 P		17 / 00
522.1-524.1	B 21 D	39 / 00	738-746	B 23 P	19 / 00	888.44	B 21 K	1 / 24	894.36-894.362	B 21 D	53 / 26	899-899.1			B 21 D		51 / 16
525	B 23 P	19 / 02	747	B 23 P	19 / 00	888.45-888.451	B 21 K	1 / 20		B 21 K	1 / 40				B 21 K		1 / 02
525.01-525.04	B 23 P	11 / 00		H 01 R	43 / 20		B 21 K	21 / 00	894.37	B 21 D	53 / 26				B 23 P		17 / 00
	B 23 P	17 / 00	748-750	B 23 P	19 / 00	888.452-888.46	B 23 P	17 / 00		B 21 K	1 / 38						
525.05-525.07	B 21 J	15 / 02		H 01 R	43 / 00	889	B 21 D	53 / 78		B 21 K	1 / 38						
525.08-525.15	B 23 P	11 / 00	751	B 23 P	19 / 00	889.1	B 23 P	6 / 00		B 23 P	17 / 00						
	B 23 P	17 / 00		H 01 R	43 / 042	889.2-889.5	B 21 K	25 / 00	894.38-894.381	B 21 D	53 / 32						
526.2-530	B 21 B	1 / 46	752	B 23 P	19 / 00		B 23 P	15 / 04		B 21 K	1 / 40						
	B 21 B	13 / 22		H 01 R	43 / 00	889.6-889.722	B 21 D	53 / 78	895	B 21 D	53 / 00						
	B 22 D	11 / 126	753	B 23 P	19 / 00		B 21 K	3 / 04		B 21 K	1 / 02	1-5-2			A 47 G		21 / 02
	B 22 D	11 / 128		H 01 R	43 / 042	890	B 23 P	15 / 02	895.1	B 21 D	53 / 00	26-29			A 45 D		29 / 00
	B 23 P	17 / 00	754-755	B 23 P	19 / 00	890.01-890.02	B 21 D	53 / 00		B 21 K	1 / 02	29.5			B 26 B		19 / 00
557-558	B 23 P	25 / 00		H 01 R	43 / 00	890.03	B 21 D	53 / 02		B 23 P	6 / 00	30-31			B 26 B		19 / 00
559	B 23 Q	13 / 04	756-764	B 23 P	19 / 00	890.031-890.032	B 23 P	6 / 00	895.2-895.33	B 21 D	53 / 00				B 26 B		21 / 12
560-560.1	B 23 Q	7 / 00	765	B 23 P	19 / 04	890.033-890.035	B 21 D	53 / 06		B 21 K	1 / 02				B 26 B		21 / 00
561-562	B 23 Q	15 / 00	766	A 41 H	37 / 06		B 21 K	21 / 00	896.1	A 61 C	5 / 10				B 26 B		19 / 00
	B 23 Q	17 / 00		B 29 D	5 / 00	890.036-890.043	B 21 D	39 / 06		B 21 F	43 / 00				B 26 B		19 / 38
	B 23 Q	5 / 00	767-770	A 41 H	37 / 06		B 21 D	39 / 06		B 23 P	13 / 00				B 26 B		21 / 24
563	B 23 Q	17 / 00	771-790	B 23 P	21 / 00	890.044	B 21 D	39 / 08	896.11	B 21 F	43 / 00				B 26 B		21 / 26
	B 23 Q	39 / 04	791-808	B 23 P	19 / 00		B 21 D	39 / 08		B 23 P	13 / 00				B 26 B		21 / 24
	B 23 Q	41 / 02	809-818	B 23 Q	7 / 10	890.045-890.05	B 21 D	53 / 06	896.2-896.24	B 29 D	17 / 00				B 26 B		19 / 44
	B 23 Q	7 / 00	819-824	B 23 P	19 / 00		B 21 D	53 / 02		H 04 R	31 / 00				B 26 B		21 / 40
564-564.8	B 23 P	23 / 00	825	H 01 R	43 / 00		B 21 D	53 / 06	896.3-896.34	G 04 D	3 / 00				B 26 B		19 / 08
	B 23 Q	41 / 00	826	H 01 R	43 / 12	890.051	B 21 D	51 / 24	896.4-896.43	A 44 C	27 / 00				B 26 B		19 / 28
565	B 23 Q	41 / 00	827	H 01 R	43 / 00		B 23 P	15 / 26	896.5	B 21 D	53 / 00				B 26 B		19 / 20
566-566.4	B 23 P	23 / 00	828	H 01 B	13 / 20	890.052	B 21 D	51 / 38		B 21 K	23 / 00				B 26 B		19 / 00
592	B 23 P	17 / 04	829	H 05 K	3 / 00		B 23 P	15 / 26	896.6-896.62	B 23 P	15 / 16				B 26 B		19 / 14
592.1	H 01 S	4 / 00	830	H 05 K	3 / 36	890.053	B 21 D	21 / 00	896.7-896.8	B 23 P	13 / 00				B 26 B		19 / 12
593	G 01 R	31 / 28	831	H 05 K	3 / 20		B 23 P	15 / 26	896.9-896.93	B 21 F	35 / 00				B 26 B		19 / 02
	G 05 F		832-838	H 05 K	3 / 30	890.054	B 23 K	31 / 00		B 23 P	13 / 00				B 26 B		19 / 28
	H 01 H		839-840	H 05 K	3 / 34		B 23 P	15 / 26	897	B 21 D	47 / 00				B 26 B		19 / 30
	H 04 R	31 / 00	841	H 05 K	3 / 30	890.06	B 21 D	51 / 16		B 21 K	23 / 00				B 26 B		21 / 00
594	H 04 R	31 / 00	842-845	H 01 R	9 / 00	890.07	B 21 D	51 / 18		B 23 P	17 / 00				B 26 B		21 / 08
595	G 01 R	3 / 00		H 05 K	3 / 00		B 23 P	17 / 00	897.1	B 21 D	47 / 00				B 26 B		21 / 00
596	H 02 K	15 / 00	846	H 05 K	3 / 02	890.08-890.09	B 21 D	51 / 16		B 23 P	6 / 00				B 26 B		21 / 14
597	H 01 R	43 / 06		H 05 K	3 / 10		B 23 P	17 / 00	897.15	B 23 P	15 / 12				B 26 B		27 / 00
	H 01 R	43 / 10	847	H 05 K	3 / 02	890.1	B 21 D	53 / 76	897.2	B 21 D	53 / 88				B 23 D		21 / 06
598	H 02 K	15 / 02	848	H 01 K	3 / 22		B 23 P	17 / 00	897.3	B 21 D	47 / 00				B 26 B		27 / 00
	H 02 K	15 / 10	849	H 01 K	3 / 00	890.11	B 21 D	51 / 40		B 21 K	23 / 00				B 26 D		3 / 16
599	H 01 L	39 / 24	850	H 01 K	3 / 10	890.12	B 21 D	51 / 16		B 23 P	17 / 00						
600	H 01 P	11 / 00	851	H 01 K	3 / 22		B 23 K	1 / 20		B 23 P	17 / 00						
	H 01 Q	13 / 00	852-853	H 01 K	3 / 10		B 23 K	17 / 00	897.31-89								