

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 28--Con.																	
197	D 02 H	13 / 00	282-283	D 01 D	11 / 02	33A	B 22 D	31 / 00	283-283.5	B 23 Q	1 / 00		B 23 Q	17 / 00			
198	D 02 H	9 / 00		D 02 J	1 / 18	33B	B 21 C	47 / 00		B 23 Q	3 / 00		B 23 Q	5 / 00			
	D 02 H	9 / 02	284-285	B 05 C		33C	B 21 B	1 / 46		B 23 Q	7 / 04	563	B 23 Q	17 / 00			
	D 03 J	1 / 13		D 01 D	10 / 00	33D	B 21 C	37 / 06	284	B 21 D	53 / 00		B 23 Q	39 / 04			
199	B 65 H	57 / 16		D 06 C	29 / 00	33E	H 01 B	13 / 22		B 23 P	13 / 00		B 23 Q	41 / 02			
	D 02 H	13 / 16		D 06 L		33F	B 21 C	1 / 00		B 23 P	15 / 00		B 23 Q	7 / 00			
	D 02 H	9 / 00		D 06 M			B 21 C	23 / 08		B 23 P	17 / 00	564-564.8	B 23 P	23 / 00			
200	B 65 H	79 / 00		D 06 P		33G	B 21 D	53 / 02	401.1	B 21 K	21 / 16		B 23 Q	41 / 00			
	D 02 H	13 / 12	286	B 05 C		33H	B 23 C	3 / 00		B 23 P	17 / 04		B 23 Q	41 / 00			
	D 06 B	3 / 34		D 01 D	10 / 00	33J	B 23 P	23 / 00		B 23 P	23 / 00		B 23 P	23 / 00			
	B 65 H	67 / 00		D 02 G	1 / 02		B 23 Q	39 / 00	402.01	B 23 P	6 / 00		B 23 P	17 / 04			
	B 65 H	69 / 00		D 06 L		33K	B 23 P	19 / 00		B 29 C	73 / 00	566-566.4	B 23 P	23 / 00			
	D 03 J	1 / 00		D 06 M			B 23 P	21 / 00	402.02	B 23 P	23 / 00		B 23 P	17 / 04			
202	B 65 H	67 / 08		D 06 P		33L	H 02 K	15 / 00		B 23 P	6 / 00		B 23 P	17 / 00			
	D 03 J	1 / 14	287	B 05 C		33M	H 01 R	43 / 00	402.03	B 23 P	19 / 04		B 23 P	23 / 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 23 P	23 / 00			
	D 03 J	1 / 14		D 02 G	1 / 18		B 23 P	19 / 00		B 23 P	6 / 00		B 23 P	6 / 00			
204-207	D 03 J	1 / 14		D 06 L			B 23 P	21 / 00	402.04-402.09	B 23 P	19 / 04		B 23 P	6 / 00			
207.1	B 65 H	67 / 00		D 06 M		33P	B 23 Q	7 / 00		B 23 P	6 / 00		B 23 P	6 / 00			
	D 03 J	1 / 14		D 06 P		33Q	B 21 D	21 / 00	402.11-402.17	B 23 P	6 / 00		B 23 P	6 / 00			
	D 03 J	3 / 00	288	B 05 C			B 21 D	35 / 00	402.18	B 22 D	19 / 10		B 22 D	19 / 10			
208	B 65 H	1 / 00		D 01 D	10 / 04	33R	B 21 B	15 / 00		B 23 K	9 / 04		B 23 K	9 / 04			
	B 65 H	75 / 38		D 06 C	29 / 00		B 21 D	39 / 03		B 23 P	6 / 00		B 23 P	6 / 00			
	D 02 H	13 / 38		D 06 L			B 23 P	23 / 04	402.19-402.21	B 21 D	1 / 00		B 21 D	39 / 24			
209-210	B 65 H	69 / 00		D 06 M			B 23 P	25 / 00		B 21 D	3 / 16		B 21 D	11 / 00			
	D 03 J	1 / 18		D 06 P		33S	B 21 B	1 / 24		B 23 P	6 / 00		B 23 P	13 / 00			
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		B 23 P	17 / 00			
	D 03 J	1 / 18		B 65 H	71 / 00	33T	B 23 D	21 / 00		B 23 P	17 / 04		B 23 P	17 / 04			
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		B 30 B	9 / 32			
	D 02 H	13 / 16		B 65 H	71 / 00		B 29 D	5 / 00	403.3-403.4	B 23 P	19 / 04		B 23 P	19 / 04			
	D 02 H	13 / 20	292-298	B 65 H	73 / 00	33.5-33.52	B 23 P	23 / 04		H 01 B	15 / 00		B 23 P	15 / 00			
213	B 65 H	57 / 16	299	D 01 G	11 / 04	34A	A 44 B	19 / 00		H 02 G	1 / 12		B 23 P	15 / 00			
	D 02 H	13 / 18		D 06 M		34B	B 21 J	15 / 00	404-406	B 23 Q	17 / 00		B 23 Q	17 / 00			
214	D 03 D	39 / 04				34C	B 21 K	1 / 02	407.01-407.1	B 23 Q	17 / 00		B 23 Q	17 / 00			
215-216	D 03 D	39 / 06				34D	B 21 F	1 / 00		G 01 M	19 / 00		B 23 P	19 / 00			
217	B 05 C					34R	B 21 D	53 / 00	408	B 21 D	53 / 50	609-609.1	B 21 D	53 / 50			
	B 65 H						B 21 D	53 / 08		B 21 F	45 / 18		B 21 F	45 / 18			
	D 01 D		2	B 23 P	13 / 00		B 21 J	15 / 10		B 29 D	5 / 00		B 29 D	5 / 00			
	D 02 G	1 / 20		H 01 M	4 / 82	35.5-36	B 23 B	3 / 16	409	B 21 D	53 / 54		B 21 D	53 / 54			
	D 02 G		2.1-2.25	B 21 D	43 / 00		B 23 B	7 / 04		B 21 F	45 / 18		B 21 F	45 / 18			
	D 02 H			B 26 D	3 / 16			23 / 00		B 29 D	5 / 00		B 29 D	5 / 00			
	D 02 J		3	B 21 D	53 / 46	39-47	B 23 B	3 / 16	410	B 21 D	53 / 52		B 21 D	53 / 52			
	D 06 B		4	B 21 F	45 / 28		B 23 B	7 / 04		B 21 F	45 / 18		B 21 F	45 / 18			
	D 06 C		4.1-4.56	B 21 F	45 / 00	48.5A	B 23 B	29 / 24		B 29 D	5 / 00		B 29 D	5 / 00			
	D 06 L			B 23 P	17 / 06		B 23 B	3 / 16	411-425	B 23 P	17 / 00		B 23 P	17 / 00			
	D 06 M		4.6	D 03 C	9 / 00		B 23 B	7 / 04	426.1-426.3	B 23 P	19 / 00		B 23 P	19 / 00			
	D 06 P		5	B 21 G	7 / 08		B 23 B	3 / 16	426.4	B 23 P	19 / 02		B 23 P	19 / 02			
	D 06 Q		6.01	B 21 K	1 / 08		B 23 B	7 / 04	426.5-426.6	B 23 P	19 / 00		B 23 P	19 / 00			
218	D 02 G	1 / 00		B 21 D	31 / 04	50	B 23 B	29 / 24	428-431	B 21 D	39 / 03		B 21 D	39 / 03			
	D 04 B	19 / 00		B 21 D	31 / 02	51	B 23 D	1 / 00		B 23 P	11 / 00		B 23 P	11 / 00			
	D 02 G	1 / 00		B 21 K	1 / 44	52	B 23 C	1 / 00	432-432.2	B 23 P	11 / 00		B 23 P	11 / 00			
219	D 02 G	3 / 00		B 21 F	25 / 00	53	B 23 B	11 / 00	433	B 23 P	19 / 04		B 23 P	19 / 04			
	D 02 J	1 / 00		B 23 P	13 / 00		B 23 B	35 / 00	434-444	B 23 P	11 / 00		B 23 P	11 / 00			
	D 02 J	11 / 00		B 21 F	45 / 12	54-56.6	B 23 C	1 / 00	445	B 23 P	9 / 00		B 23 P	9 / 00			
	D 02 J	3 / 00		B 23 P	5 / 00	57	B 23 B	25 / 00	446-451	B 23 P	11 / 02		B 23 P	11 / 02			
	D 02 J	7 / 00		B 21 D	53 / 40		B 23 Q	39 / 00	452	B 21 D	39 / 00		B 21 D	39 / 00			
220	D 02 G	1 / 20		B 21 K	13 / 02	64	B 23 P	23 / 00	453	B 23 P	11 / 02		B 23 P	11 / 02			
	D 02 J	11 / 00		B 23 P	13 / 00	65	B 23 P	23 / 00	454	B 23 P	19 / 04		B 23 P	19 / 04			
221	D 02 G	1 / 12		B 21 F	45 / 22		B 23 Q	5 / 00	455.1	B 21 D	39 / 00		B 21 D	39 / 00			
222	D 02 J	11 / 00		B 21 F	45 / 24	76.1-76.4	B 23 D	67 / 00		B 23 P	19 / 04		B 23 P	19 / 04			
223	B 65 H	63 / 06	14	B 21 H	7 / 06		B 23 D	69 / 00	456-457	B 21 D	39 / 00		B 21 D	39 / 00			
	D 02 J	3 / 00		B 21 K	19 / 02	77	B 23 D	73 / 02		B 23 P	19 / 00		B 23 P	19 / 00			
	D 02 J	7 / 00	15-16	B 23 P	13 / 00	81.01-81.17	B 21 B	45 / 04	458-459	B 23 P	25 / 00		B 23 P	25 / 00			
224	D 02 J	3 / 14	17.1-17.2	B 21 D	33 / 00		B 21 C	43 / 00	460	B 23 P	19 / 04		B 23 P	19 / 04			
225	B 65 H	63 / 06	17.3-18.1	B 21 D	33 / 00		B 23 K	7 / 00	461	B 23 P	25 / 00		B 23 P	25 / 00			
226	B 65 H	63 / 06		B 32 B	37 / 00	89.5	B 23 P	25 / 00	462	B 23 P	19 / 00		B 23 P	19 / 00			
	D 02 J	3 / 12	20	B 21 D	33 / 00		B 23 P	9 / 00		B 23 P	25 / 00	730	B 23 P	25 / 00			
	D 02 J	3 / 16	20.1	B 26 D	3 / 10	90.01	B 21 C	37 / 30	463	B 21 D	39 / 02		B 21 D	39 / 02			
227-229	B 65 H	63 / 06	21-22	B 23 P	17 / 00		B 24 B	39 / 00	464-468	B 23 Q	3 / 00	731	B 23 Q	19 / 00			
230-239	D 02 J	3 / 14	23.1	B 23 P	13 / 00	90.1-90.5	B 24 B	39 / 00	469	B 23 P	21 / 00		B 23 P	21 / 00			
240-242	D 02 J	1 / 22	23.51	B 21 D	53 / 78	90.6-90.7	B 21 C	37 / 30	469.5	B 21 D	35 / 00		B 21 D	35 / 00			
243	D 02 J	1 / 06		B 21 K	3 / 04		B 24 B	39 / 00	505-506	B 21 D	39 / 00	732	B 23 P	19 / 00			
244-246	D 02 J	1 / 22		B 23 P	15 / 02	91-91.1	B 68 G	7 / 00		B 23 P	11 / 00		B 23 P	11 / 00			
247-251	D 02 G	1 / 00	24	B 23 P	17 / 00												

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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 29--Con.																	
766	B 29 D	5 / 00		B 23 P	15 / 26	896.1	A 61 C	5 / 10	30-31	B 26 B	21 / 12	228	B 26 B	15 / 00			
767-770	A 41 H	37 / 06	890.036-890.043	B 21 D	39 / 06		B 21 F	43 / 00	32	B 26 B	21 / 00	229-263	B 26 B	13 / 00			
771-790	B 23 P	21 / 00		B 21 D	53 / 00		B 23 P	13 / 00	34.05-34.1	B 26 B	19 / 00	264	B 26 B	15 / 00			
791-808	B 23 P	19 / 00		B 23 P	15 / 26	896.11	B 21 F	43 / 00	34.2	B 26 B	19 / 42	265	B 26 B	13 / 00			
809-818	B 23 Q	7 / 10	890.044	B 21 D	39 / 08		B 23 P	13 / 00	35-39	B 26 B	19 / 38	266	B 26 B	13 / 28			
819-824	B 23 P	19 / 00		B 21 D	53 / 02	896.2-896.24	B 29 D	17 / 00	40	B 26 B	21 / 24	267-271	B 26 B	13 / 00			
825	H 01 R	43 / 00	890.045-890.05	B 21 D	53 / 06		H 04 R	31 / 00	40.1	B 26 B	21 / 26	272.1-277	B 26 B	7 / 00			
826	H 01 R	43 / 12		B 23 P	15 / 26	896.3-896.34	G 04 D	3 / 00	40.2	B 26 B	21 / 24	277.4	B 26 B	15 / 00			
827	H 01 R	43 / 00	890.051	B 21 D	51 / 24	896.4-896.43	A 44 C	27 / 00	41-41.6	B 26 B	19 / 44	278-279.6	A 01 D	1 / 00			
828	H 01 B	13 / 20		B 23 P	15 / 26	896.5	B 21 D	53 / 00	41.7-41.8	B 26 B	21 / 40		B 26 B	13 / 00			
829	H 05 K	3 / 00	890.052	B 21 D	51 / 38		B 21 K	23 / 00	41.9	B 26 B	19 / 08	278	B 26 B	3 / 00			
830	H 05 K	3 / 36		B 23 P	15 / 26	896.6-896.62	B 23 P	15 / 16	42	B 26 B	19 / 28	280-283	B 26 B	3 / 00			
831	H 05 K	3 / 20	890.053	B 21 D	21 / 00	896.7-896.8	B 23 P	13 / 00	43	B 26 B	19 / 20	284-295	B 26 B	29 / 00			
832-838	H 05 K	3 / 30		B 23 P	15 / 26	896.9-896.93	B 21 F	35 / 00	43.1-43.3	B 26 B	19 / 00	289	B 26 B	29 / 06			
839-840	H 05 K	3 / 34	890.054	B 23 K	31 / 00		B 23 P	13 / 00	43.4-43.6	B 26 B	19 / 14	296.1-298.4	B 26 B	27 / 00			
841	H 05 K	3 / 30		B 23 P	15 / 26	897	B 21 D	47 / 00	43.7-43.9	B 26 B	19 / 12	299-308	B 26 B	3 / 00			
842-845	H 01 R	9 / 00	890.06	B 21 D	51 / 16		B 21 K	23 / 00	43.91-43.92	B 26 B	19 / 02	308.1-308.3	B 26 B	23 / 00			
	H 05 K	3 / 00	890.07	B 21 D	51 / 18		B 23 P	17 / 00	44-45	B 26 B	19 / 28	309-319	B 26 B	3 / 00			
846	H 05 K	3 / 02		B 23 P	17 / 00	897.1	B 21 D	47 / 00	46	B 26 B	19 / 30	320-321	B 26 B	1 / 00			
	H 05 K	3 / 10	890.08-890.09	B 21 D	51 / 16		B 21 K	23 / 00	47-50	B 26 B	21 / 00	322-328	A 47 J	43 / 28			
847	H 05 K	3 / 02		B 23 P	17 / 00		B 23 P	6 / 00	51	B 26 B	21 / 08	329-339	B 26 B	1 / 00			
848	H 01 K	3 / 22	890.1	B 21 D	53 / 76	897.15	B 23 P	15 / 12	52-55	B 26 B	21 / 00	340-341	B 25 G	1 / 00			
849	H 01 K	3 / 00		B 23 P	17 / 00	897.2	B 21 D	53 / 88	57-84	B 26 B	21 / 14		B 25 G	1 / 12			
850	H 01 K	3 / 10	890.11	B 21 D	51 / 40	897.3	B 21 D	47 / 00	90.1-108	B 26 B	27 / 00	340-345	B 25 G	3 / 00			
851	H 01 K	3 / 22	890.12	B 21 D	51 / 16		B 21 K	23 / 00	90.1-91.2	B 21 F	13 / 00	346	B 26 B	9 / 00			
852-853	H 01 K	3 / 10		B 23 K	1 / 20		B 23 P	17 / 00	92-108	B 23 D	21 / 06	346.5	B 26 B	21 / 54			
854-856	H 01 R	43 / 00		B 23 K	17 / 00	897.31-897.312	B 21 D	47 / 00		B 26 D	3 / 16	346.51	B 26 B	19 / 04			
	H 05 K	13 / 00	890.121	B 23 P	6 / 00		B 21 K	23 / 00	109-113	A 24 C	1 / 24	346.52-346.61	B 26 B	21 / 54			
857-859	H 01 R	43 / 00	890.122	B 21 D	53 / 10		B 23 P	15 / 12		A 24 C	5 / 12	347-353	B 26 B	9 / 00			
860	H 01 R	43 / 02		B 21 K	1 / 24	897.32	B 21 D	47 / 00	113.1-113.3	A 24 C	5 / 28	353	B 26 B	19 / 04			
861-867	H 01 R	43 / 04		B 23 P	17 / 00		B 21 K	23 / 00		A 47 J	23 / 00	355-357	B 26 B	9 / 02			
868-870	H 01 R	43 / 00	890.123-890.132	B 21 D	51 / 16		B 23 P	17 / 00		A 47 J	25 / 00	358-368	B 26 F	1 / 00			
871	H 01 R	43 / 04		B 21 K	1 / 20	897.33	B 21 D	47 / 01	114	A 21 C	15 / 04	369-370	B 27 B	3 / 28			
872-873	H 01 R	43 / 00		B 23 P	17 / 00		B 21 K	23 / 00		A 21 C	5 / 08		B 27 B	9 / 00			
874-875	H 01 R	43 / 16	890.14-890.141	B 21 D	51 / 16		B 23 P	17 / 00	115-117	A 21 C	5 / 00	369	B 23 D	49 / 00			
876	H 01 R	43 / 20		B 21 K	1 / 76	897.34	B 21 D	49 / 00	118-119	B 26 B	1 / 00		B 27 B	19 / 09			
877-880	H 01 R	43 / 02		B 23 P	17 / 00		B 21 K	23 / 00	118-120	A 41 H	25 / 00		B 27 B	33 / 20			
881-882	H 01 R	43 / 04	890.142-890.143	B 21 D	51 / 16		B 23 P	17 / 00	118	B 26 B	13 / 00		B 27 B	5 / 29			
883-885	H 01 R	43 / 00		B 21 K	21 / 08	897.35	B 21 D	47 / 01	120	B 26 B	13 / 06	370-373	B 23 D	51 / 04			
886-887	H 01 B	19 / 00		B 23 P	15 / 16		B 21 K	23 / 00	120.1-120.3	B 26 B	17 / 00	370-377	B 23 D	47 / 02			
888	B 23 P	17 / 00	890.144-890.145	B 21 D	51 / 16		B 23 P	17 / 00	120.1-120.5	A 47 J	43 / 26		B 23 D	51 / 02			
888.01	B 21 K	3 / 00		B 21 K	1 / 16	898	B 21 D	53 / 10	120.1	A 23 N	5 / 00		B 23 D	59 / 00			
888.011	B 23 K	6 / 00		B 23 P	17 / 00		B 21 K	1 / 76	120.4	B 26 B	17 / 02	371	B 23 B	29 / 00			
888.012	B 23 K	3 / 00	890.146	B 21 D	51 / 16		B 23 P	17 / 00	120.5	B 26 B	17 / 00		B 27 B	21 / 08			
888.02	B 23 P	15 / 00		B 23 P	17 / 00	898.01	B 21 D	53 / 10	121	A 01 G	3 / 08	372-377	B 27 B	19 / 14			
888.021	B 23 P	6 / 00	890.147-890.148	B 21 D	51 / 16		B 21 K	1 / 76	121.5	B 26 B	23 / 00	372	B 23 B	27 / 08			
888.022-888.025	B 23 P	15 / 00		B 21 K	1 / 16		B 23 P	6 / 00	122-123.3	A 47 J	17 / 02	373-374	B 27 B	9 / 04			
888.03	B 21 K	1 / 76		B 23 P	17 / 00	898.02-898.047	B 21 D	53 / 10		B 25 F	3 / 00	374-377	B 27 B	21 / 08			
888.04	B 23 P	15 / 10	890.15	B 21 D	51 / 16		B 21 K	1 / 10	123-123.3	B 26 B	11 / 00	375-377	B 27 B	9 / 02			
888.041	B 23 P	6 / 00		B 21 K	1 / 76	898.048-898.051	B 21 D	53 / 10		B 26 B	1 / 00	378	B 23 D	47 / 04			
888.042	B 23 P	15 / 10		B 23 P	17 / 00		B 21 K	1 / 04	123.4	B 26 B	3 / 00		B 23 D	51 / 04			
888.043	B 23 K	15 / 00	891-891.2	B 21 D	53 / 60		B 23 P	17 / 00		B 23 D	59 / 04		B 27 B	21 / 00			
888.044-888.045	B 21 K	26 / 00		B 21 K	19 / 00	898.052-898.053	B 21 D	53 / 00		B 23 Q	11 / 12		B 27 B	25 / 10			
	B 23 P	11 / 18		B 23 P	17 / 00		B 21 K	1 / 76		B 26 B	7 / 00	379-379.5	B 23 D	45 / 00			
888.046	B 21 K	1 / 18	892-892.2	B 21 K	1 / 42		B 23 P	17 / 00	123.5-123.7	A 22 B	5 / 16		B 27 B	19 / 14			
888.047	B 22 D	19 / 00		B 23 P	17 / 00	898.054-898.055	B 21 D	53 / 00	123.5-140	B 26 B	11 / 00		B 27 B	9 / 00			
	B 23 P	11 / 00	893-893.37	B 21 D	53 / 28		B 21 K	1 / 76	124-140	B 25 F	3 / 00	380	B 23 D	53 / 00			
888.048	B 23 P	11 / 00		B 21 K	1 / 30		B 23 P	17 / 00		B 26 B	1 / 00		B 23 D	55 / 00			
	B 23 P	15 / 10		B 23 P	15 / 14	898.06-898.062	B 21 D	53 / 10	137	A 47 J	43 / 28		B 27 B	13 / 00			
888.049	B 23 P	11 / 00	894	B 21 D	53 / 26		B 21 K	1 / 76	141	A 47 J	43 / 28		B 27 B	17 / 00			
	B 23 P	15 / 06	894.01-894.012	B 21 D	53 / 26		B 23 P	17 / 00	142-146	B 25 F	3 / 00	381-382	B 23 D	57 / 02			
888.05	B 21 K	1 / 44		B 21 H	1 / 04	898.063	B 21 D	53 / 10		B 26 B	1 / 00	382-386	B 23 D	59 / 00			
888.051-888.061	B 23 P	11 / 00		B 23 P	15 / 20		B 21 K	1 / 04	147-150	B 26 B	11 / 00	383	B 27 B	17 / 02			
888.07	B 21 K	1 / 14	894.1-894.3	B 21 D	53 / 26	898.064	B 21 D	53 / 10	151-164	A 47 J	43 / 28	384-385	B 27 B	17 / 04			
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888.071-888.076	B 23 P	15 / 06	894.31	B 21 K	1 / 38		B 23 P	17 / 00		F 41 B	13 / 02	387	B 27 B	17 / 02			
888.08	B 23 P	17 / 00		B 23 P	17 / 00												