

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 8--Con.																	
140	D 06 L		444	D 06 P	5 / 20	659	C 09 B	23 / 00		A 43 D	75 / 00		A 43 D	95 / 00			
141	B 03 B	9 / 06	445	D 06 P	5 / 00	661	C 09 B	47 / 04	8.7-9	A 43 D	21 / 00	52	A 43 D	11 / 00			
	D 06 F		446-456	D 06 P	5 / 12	662	C 09 B	29 / 08		A 43 D	23 / 00	52.5-53.1	A 43 D	11 / 00			
	D 06 L		457-464	D 06 P	5 / 15		C 09 B		9.1	A 43 D	21 / 00		A 43 D	13 / 00			
142	D 06 F		465	D 06 P	1 / 22	663	C 07 D	231 / 56		A 43 D	23 / 00		A 43 D	15 / 00			
	D 06 L	1 / 04	466	D 06 P	1 / 02		C 09 B			A 43 D	43 / 00		A 43 D	95 / 00			
	D 06 L		467-472	D 06 P	5 / 00	664-665	C 09 B		10-10.1	A 43 D	21 / 00	53.2-55.1	A 43 D	11 / 00			
147-148	A 01 H	5 / 02		D 06 P			D 06 P	1 / 12		A 43 D	23 / 00		A 43 D	95 / 00			
	D 06 B		473	D 06 P	1 / 00	666	C 09 B		10.2	A 43 D	75 / 00	57-57.1	A 43 D	85 / 00			
149	D 06 B	11 / 00		D 06 P			D 06 P	3 / 68	10.21-10.5	A 43 D	21 / 00	57.5-57.6	A 43 D	27 / 00			
	D 06 B		474	D 06 P	1 / 673	667	C 09 B			A 43 D	23 / 00	58	A 43 D	115 / 00			
149.1	D 06 B	19 / 00		D 06 P			D 06 P	3 / 44	10.6-11.2	A 43 D	75 / 00		A 43 D	8 / 34			
	D 06 B		475	D 06 P	1 / 94	668	C 09 B	35 / 56	11.3-12.5	A 43 D	21 / 00		A 43 D	1 / 00			
149.2	D 06 B	1 / 02		D 06 P			C 09 B			A 43 D	23 / 00	58.3	A 43 D	100 / 00			
	D 06 B		476	D 06 P	5 / 20	669	C 09 B	35 / 04		A 43 D	75 / 00	58.5-59.7	A 43 D	11 / 00			
149.3	D 06 B	19 / 00		D 06 P			C 09 B		13.1	A 43 D	43 / 00	61A	A 43 D	11 / 00			
	D 06 B		477	D 06 P	1 / 96	670	C 09 B	29 / 00	13.2	A 43 D	43 / 00		A 43 D	11 / 00			
150	D 06 F			D 06 P			C 09 B		14.2-14.4	A 43 D	21 / 00		A 43 D	8 / 00			
	D 06 F	95 / 00	478-487	D 06 P	5 / 00	671	C 09 B	39 / 00	14.5	A 43 D	23 / 00		A 43 D	8 / 00			
150.5	C 14 C	15 / 00	488	D 04 H	11 / 00		C 09 B		15	A 43 D	3 / 12	64-66	A 43 D	25 / 14			
	D 06 B			D 06 P			C 09 B		15.1	A 43 D	3 / 10		A 43 D	44 / 00			
151	D 06 B	3 / 20	489	D 06 P	7 / 00	672	C 09 B	69 / 08	16	A 43 D	61 / 00		A 43 D	47 / 00			
	D 06 B		490	D 06 P	5 / 00	673	C 09 B	31 / 02	16.1	A 43 D	63 / 00		A 43 D	57 / 00			
151.1	D 01 D	10 / 04	491	D 06 P	5 / 00	674	C 09 B		16.2	A 43 D	89 / 00	70-79.5	A 43 D	95 / 00			
	D 06 B	3 / 26	491	D 06 P	7 / 00		D 06 P	3 / 79	16.3-16.5	A 43 D	25 / 12	85	A 43 D	21 / 00			
	D 06 B		492-493	D 06 P	5 / 00	675-679	C 09 B	1 / 00		A 43 D	63 / 00		A 43 D	27 / 00			
151.2	D 01 D	10 / 04	494	D 06 M	23 / 00		C 09 B	3 / 00	16.6-16.7	A 43 D	27 / 06		A 43 D	8 / 32			
	D 06 B	3 / 04		D 06 P			C 09 B	5 / 00	17A	A 43 D	29 / 00		A 43 D	8 / 36			
	D 06 B		495	D 06 P	1 / 52		C 09 B	6 / 00	17R	A 43 D	25 / 00	85.1-95	A 43 D	93 / 00			
152	D 06 B	3 / 28		D 06 P		680	A 61 Q	1 / 02		A 43 D	27 / 00		A 43 D	21 / 00			
	D 06 B		496	D 06 P	1 / 56		C 09 B			A 43 D	29 / 00		A 43 D	8 / 00			
154	D 06 B	5 / 14		D 06 P		681	C 09 B	31 / 08		A 43 D	35 / 00		A 43 D	93 / 00			
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155	A 01 N	25 / 34	498-499	D 06 P	5 / 00	682-684	C 09 B	29 / 00		A 43 D	43 / 00		A 43 D	19 / 00			
	D 06 B		500	D 06 P	7 / 00	685-687	C 09 B	45 / 00		A 43 D	67 / 00		A 43 D	5 / 00			
155.1	D 06 B	5 / 16	501-508	D 06 P	5 / 00	688-696	C 09 B	29 / 00		A 43 D	69 / 00		A 43 D	95 / 00			
	D 06 B		509	D 06 P	3 / 52					A 43 D	89 / 00	122	A 43 D	5 / 00			
155.2	D 06 B	5 / 20	510-511	D 06 P	3 / 70					A 43 D	95 / 00	123	A 43 D	25 / 10			
	D 06 B		512	D 06 P	3 / 52					A 43 D	119 / 00		A 43 D	3 / 00			
156	D 06 B		513-514	D 06 P	3 / 79					A 43 D	95 / 00	123.3-127	A 43 D	23 / 00			
	D 21 D	1 / 40	515	D 06 P	3 / 24	1A	A 43 D	111 / 00	17.2	A 43 D	119 / 00		A 43 D	3 / 00			
	A 01 H	5 / 00	516	D 06 P	3 / 04		A 43 D	117 / 00	18.1	A 43 D	95 / 00		A 43 D	3 / 00			
	D 06 B		517	D 06 P	3 / 14		A 43 D	119 / 00	18.2	A 43 D	25 / 14	128B-128R	A 43 D	3 / 00			
158	D 06 B			D 06 P	3 / 24	1B	A 43 D	25 / 053	18.3	A 43 D	31 / 00	128V	A 43 D	3 / 00			
	D 06 F	35 / 00	518-519	D 06 P	3 / 60		A 43 D	25 / 16	18.5-18.9	A 43 D	43 / 00		A 43 D	3 / 14			
159	D 06 B		520	D 06 P	3 / 58		A 43 D	85 / 00	20-20.2	A 43 D	43 / 06	129.4	A 43 D	3 / 00			
	D 06 F	39 / 00	521	D 06 P	3 / 00	1F	A 43 D	25 / 00	21-22	A 43 D	25 / 14	133A-133M	A 43 D	3 / 00			
160-161	C 14 C	1 / 06	522-523	D 06 P	3 / 80		A 43 D	25 / 07	24.5	A 43 D	43 / 06		A 43 D	3 / 02			
181-196	D 06 M	13 / 322	524-526	C 09 B	67 / 02		A 43 D	43 / 06	27-28	A 43 D	43 / 00		A 43 D	3 / 00			
400	D 06 P	5 / 00	527-528	C 09 B	67 / 00	1G	A 43 B	7 / 14	29-30	A 43 D	95 / 04		A 43 D	23 / 00			
401	C 09 B	67 / 00	529-534	D 06 P	3 / 82		A 43 B	7 / 18	31.5-31.6	A 43 D	87 / 00		A 43 D	3 / 00			
402	D 06 P	3 / 60	535	D 06 P	3 / 58		A 43 D	8 / 00	32-32.1	A 43 D	43 / 00	142A	A 43 B	9 / 08			
403	D 06 P	5 / 13	536-537	D 06 P	3 / 60		A 43 D	8 / 00		A 43 D	91 / 00		A 43 D	85 / 00			
404	D 06 P	3 / 04	538	D 06 P	3 / 60	1M	A 43 B	3 / 14	33-38	A 43 D	89 / 00	142B-142C	A 43 B	9 / 00			
405	A 61 K	8 / 00		D 06 P	3 / 70		A 43 D	113 / 00	39	A 43 D	63 / 00	142D	A 43 B	9 / 04			
	A 61 Q	5 / 10	539-540	D 06 P	3 / 00	1R	A 43 D	3 / 02	39.3	A 43 D	91 / 00	142E	A 43 B	1 / 10			
406	A 61 Q	5 / 10	541-543	C 09 B	62 / 00		A 43 D	11 / 00	39.5	A 43 D	95 / 00	142EV	A 43 B	3 / 16			
407	A 61 K	8 / 41	544	C 09 B	62 / 02		A 43 D	37 / 00	40	A 43 D	8 / 00	142F	A 43 B	9 / 12			
	A 61 Q	5 / 10		C 09 B	62 / 54		A 43 D	95 / 08	40.5	A 43 D	31 / 00	142G	A 43 B	1 / 02			
408	A 61 Q	5 / 10	546-549	C 09 B	62 / 00	1W	A 43 D	11 / 00	41.05	A 43 D	63 / 00	142J	A 43 B	13 / 37			
409	A 61 K	8 / 49	550	C 09 B	67 / 00		A 43 D	21 / 12	41.1-41.2	A 43 D	11 / 14	142K	A 43 D	11 / 00			
	A 61 Q	5 / 10		D 06 P			A 43 D	21 / 16		A 43 D	8 / 52	142LC	A 43 D	11 / 00			
410	A 61 K	8 / 41	551-635	C 09 B	67 / 00	4.1	A 43 D	86 / 00	41.3	A 43 D	95 / 06	142MC	A 43 B	3 / 14			
	A 61 Q	5 / 10	636	C 09 B		4.2	A 43 D	89 / 00	41.5	A 43 D	11 / 14	142N	A 43 B	7 / 14			
411	A 61 Q	5 / 10		D 06 P	1 / 00	4.3	A 43 D	53 / 00	41.7	A 43 D	61 / 00	142P	A 43 B	5 / 00			
412	A 61 K	8 / 41		D 06 P		4.4	A 43 D	47 / 00	42B	A 43 D	25 / 06	142Q	A 43 D	11 / 00			
	A 61 Q	5 / 10	637.1-638	C 09 B	67 / 00		A 43 D	53 / 00		A 43 D	67 / 00	142R	A 43 D	11 / 00			
414	A 61 Q	5 / 10		C 09 B		4.5	A 43 D	53 / 00	42R	A 43 D	11 / 00		A 43 D	21 / 00			
	D 06 P	3 / 30		D 06 P		4.6	A 43 D	85 / 00		A 43 D	21 / 00		A 43 D	9 / 00			
415	C 09 B	51 / 00	639	C 09 B	67 / 00	7	A 43 D	21 / 00		A 43 D	25 / 00		A 43 D	35 / 00			
416-421	A 61 K	8 / 41		C 09 B			A 43 D	23 / 00		A 43 D	27 / 00	142RS	A 43 B	13 / 04			
	A 61 Q	5 / 10	640	C 09 B	49 / 00		A 43 D	75 / 00		A 43 D	33 / 00		A 43 B	9 / 00			
423	A 61 K	8 / 49	641	C 09 B	67 / 00	7.1	A 43 D	21 / 00		A 43 D	67 / 00	142S					

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Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation
U.S. CLASS 12--Con.																							
146R	A 43 B	23 / 02		A 47 L	13 / 00	142	A 47 L	23 / 24	230.12-230.13	B 24 D	13 / 08		A 47 L	9 / 00									
	A 43 D	11 / 00	40-48.2	D 06 G	1 / 00		A 47 L	25 / 00	230.14	B 24 D	13 / 04		B 08 B	5 / 00									
	A 43 D		40	D 06 G		143.1-144.4	A 47 L	13 / 00	230.15	B 24 D	13 / 08		D 06 G	1 / 00									
146S	A 43 D	31 / 00	41.1-48.2	A 47 L	11 / 32		B 25 G	1 / 00	230.16	B 24 D	13 / 14	313-315	B 60 S	1 / 54									
146W	A 43 B	15 / 00	49.1-52	A 47 L	11 / 00	143.1-146	A 46 B	5 / 02	230.17	A 47 L	11 / 164		B 60 S	1 / 64									
147A	A 43 B	21 / 06	51-52.2	A 47 L	13 / 00	145-146	A 47 K		230.18	B 24 D	13 / 14	313-318.1	A 47 L	15 / 00									
147B	A 43 D	25 / 12	53.1-53.4	B 60 S	3 / 00		B 25 G		230.19	B 24 D	13 / 08		A 47 L	5 / 38									
147R	A 43 D	25 / 00	54-55	B 61 F	19 / 00	145	A 46 B	5 / 00	231	A 47 L	13 / 46	316.1-318.1	F 23 J	3 / 02									
	A 43 D	33 / 00		E 01 H	8 / 00	146	A 46 B	17 / 02	232-233	A 47 L	1 / 06	316.1	D 06 G	1 / 00									
148	A 43 D	25 / 00	56-76	B 08 B	9 / 20	147.1-154.2	A 47 L	13 / 20	234-235	A 47 L	13 / 38	318.1	D 06 G	1 / 00									
			56	A 47 L	15 / 00	154.2	A 47 L	13 / 502	235.3	E 04 G	21 / 20	319	A 47 L	5 / 00									
			57-58	B 08 B	9 / 46	159.1-161	A 46 B		235.4-235.8	E 01 C	19 / 12	320-322	A 47 L	7 / 00									
			59-77	A 47 L	15 / 00	159.1	A 46 B	5 / 00	235.4-241	B 05 C	17 / 10	323-339	A 47 L	9 / 00									
			77	A 47 L	25 / 00	160	A 46 B	9 / 02	236.01-241	A 47 L	13 / 02	323-340.4	A 47 L	5 / 00									
			78-87	E 01 H	1 / 02	161	A 47 L	23 / 22		A 47 L	17 / 06	339	A 47 L	7 / 00									
				E 01 H	1 / 04	164-165	A 46 B	5 / 00		A 47 L	23 / 22		B 08 B	5 / 00									
				A 47 L	15 / 00	164-166	A 46 B		244.1-244.3	A 47 L	13 / 46	340.1-340.4	E 01 H	1 / 08									
				A 47 L	25 / 00	166	A 46 B	17 / 08	244.1-244.4	A 47 K	7 / 02	341-343	A 47 L	5 / 02									
				A 47 L	11 / 36	167.1-167.2	A 46 B	9 / 04		A 47 L	21 / 00		A 47 L	5 / 08									
				A 01 K	31 / 04	167.3-205	A 46 B		244.4	A 47 L	13 / 16	344	A 47 L	5 / 24									
				B 08 B	9 / 38	167.3	A 45 D	29 / 17	245	A 47 L	1 / 06	345-346	A 47 L	5 / 14									
				B 23 D	79 / 02		A 46 B	9 / 02	245.1	B 05 C	17 / 10	347-353	A 47 L	9 / 10									
				C 10 B	43 / 04	168-170	A 46 B	9 / 08		B 05 C			A 47 L	9 / 20									
				A 47 L	13 / 502	171	A 46 B	3 / 08	246	A 47 L	1 / 00	354-361	A 47 L	5 / 34									
				A 47 L		172	A 46 B	5 / 00		B 60 S	1 / 00	362-382	A 47 L	5 / 00									
				B 08 B		173	A 46 B	3 / 08	246.2-246.4	A 47 L	5 / 00	363-382	A 47 L	9 / 04									
				F 28 G	7 / 00	174	A 46 B	3 / 10		A 47 L	7 / 00		A 47 L	9 / 06									
				B 08 B	9 / 20	175	A 46 B	3 / 08		A 47 L	9 / 00	383-392	A 47 L	5 / 10									
				A 47 L	1 / 02	176.1-176.2	A 46 B	7 / 04	246.5	F 22 B	37 / 48		A 47 L	5 / 26									
				A 47 L	11 / 02	176.3	A 46 B	15 / 00	247	A 46 B	17 / 04	393-403	A 47 L	9 / 06									
				B 67 C		176.4-176.6	A 46 B	7 / 04		A 47 L	13 / 44	393-408	A 47 L	5 / 00									
				G 03 D	5 / 06	177-178	A 46 B	3 / 08	248.1-248.2	A 46 B	17 / 00	406-408	F 23 J										
				G 11 B	23 / 50	179-183	A 46 B	13 / 00	249.1-249.3	F 23 J	3 / 00	406	B 08 B	9 / 02									
				A 47 L	23 / 02	184	A 46 B	7 / 02	250.001-250.003	B 08 B		407	B 02 C	18 / 34									
				B 60 S	3 / 06	185	A 46 B	5 / 00	250.001-250.19	A 47 L	1 / 00	408	F 04 F	5 / 46									
				A 47 L	11 / 162	186	A 46 B	7 / 00		B 60 S	1 / 02	409	A 47 L	5 / 16									
				A 47 L	11 / 29	187	A 46 B	1 / 00	250.001	B 60 S	1 / 04	410-411	A 47 L	9 / 00									
				G 03 D	15 / 00	188	A 46 B	9 / 04	250.002	B 60 S	1 / 60	412-413	A 47 L	11 / 00									
				A 47 L	15 / 00	189	A 46 B	3 / 18	250.003	B 60 R	1 / 06		A 47 L	13 / 00									
				H 01 L	21 / 00	190	A 46 B	3 / 16	250.201-250.34	A 47 L	1 / 00		A 63 B	47 / 04									
				E 01 C	23 / 20	191.1	A 46 D	3 / 00		B 60 S	1 / 02		A 63 D	5 / 10									
				A 47 L	13 / 00	192-194	A 46 B	15 / 00	250.351-250.352	A 47 L	1 / 00	412	A 47 L	9 / 22									
				A 46 B		195-196	A 46 B	3 / 16		B 60 S	1 / 02		A 47 L	9 / 28									
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				F 23 J	21 / 04	198	A 46 B	13 / 00		B 60 S	1 / 02	423	B 43 K	13 / 00									
				H 01 T	77 / 04	199	A 46 B	3 / 16	250.43-250.48	A 47 L	1 / 00		B 43 K	5 / 00									
				F 02 B	7 / 10	200	A 46 B	7 / 10		B 60 S	1 / 02	424-426	B 43 L	19 / 00									
				F 23 J	3 / 00	201	A 46 B	7 / 06	256.5-256.6	A 46 B	15 / 00	427-432	B 43 K	29 / 02									
				F 28 G	1 / 00	202	A 46 B	15 / 00		B 21 B	45 / 02	433-434	B 43 L	19 / 00									
				B 08 B	9 / 00	203	A 46 B	7 / 02		B 60 S	1 / 28	435	B 43 K	3 / 00									
				B 08 B	1 / 00	204	A 46 B	3 / 12	257.01	A 46 B	17 / 00	436	B 43 K	3 / 04									
				B 08 B	7 / 00	205	A 46 B	3 / 18		A 47 G	29 / 08	437-444	B 43 K	3 / 00									
				F 16 L	45 / 00	205.2	A 46 B	11 / 00		A 47 L	23 / 14	445-446	B 43 K	1 / 00									
				F 16 L	55 / 00	206-207	A 46 B	3 / 18		A 47 L	25 / 00	447	B 43 K	1 / 02									
				B 08 B	9 / 04	206-207.2	A 46 B		257.05-257.06	B 05 C	21 / 00												
				F 23 J	3 / 00	207.2	A 46 D	1 / 00		A 47 L	13 / 56												
				B 08 B	1 / 00	208-219	A 47 K	7 / 02		B 43 L													
				B 08 B	7 / 00		A 47 L	1 / 06		B 44 D	3 / 12												
				B 08 B	9 / 00		A 47 L	13 / 10	257.07	B 43 L	25 / 00												
				F 16 L	45 / 00		A 47 L	23 / 04	257.072	B 43 L	25 / 04												
				F 16 L	55 / 00		A 47 L	25 / 00	257.073-257.076	B 43 L	25 / 00												
				B 28 G	3 / 00		B 43 L	21 / 00	257.1-257.9	A 47 L	13 / 52												
				B 08 B	1 / 00	208	A 47 L	17 / 08	258-259	A 47 L	23 / 28												
				B 08 B	7 / 00	210.5-219	A 47 L	17 / 08	260-263	A 47 L	13 / 14												
				B 08 B	9 / 02	220.1-220.2	A 47 L	1 / 00		A 47 L	13 / 58												
				F 16 L	45 / 00	220.3	A 47 L	1 / 15	264	A 47 J	47 / 18												
				F 16 L	55 / 00		A 47 L	4 / 00		A 47 L	13 / 50												
				B 08 B	1 / 00	220.4-228	A 47 L	25 / 00		A 47 L	17 / 00												
				B 08 B	7 / 00	220.4	F 01 M	11 / 12	265-267	A 47 L	23 / 16												
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				A 46 B	17 / 08		A 47 L	23 / 04	268	A 47 L	13 / 54												
				A 47 L	13 / 42		B 43 L	21 / 00		A 47 L	21 / 06												
				B 08 B	9 / 08	221-229.1	A 47 K	7 / 02		B 08 B	9 / 20												
				B 08 B	9 / 20		A 47 L	1 / 06		B 08 B	9 / 46												
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				B 08 B	1 / 00		A 47 L	17 / 00		A 47 L	9 / 00												
				A 47 L	15 / 00	229.11-229.13	A 47 L	13 / 10		B 08 B	5 / 00												
				E 04 F	21 / 165		A 47 L	17 / 08		D 06 G	1 / 00												
				B 25 F	1 / 00	229.14	A 45 D	33 / 34		A 47 L	15 / 00												
				B 43 L	19 / 00		A 45 D		301-305	A 47 L	5 / 38												
				B 26 B	11 / 00		A 47 L	13 / 20		A 47 L	5 / 00												
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				A 47																			