

**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 33--Con.</b>														
660-661	G 01 D	21/00	240	F 26 B	25/20	19.5	A 43 B	13/32	92	A 43 B	7/16	279-283	E 01 H	5/06
662	A 41 H	25/00		F 26 B	9/10		A 43 B	9/12	93	A 43 B	7/14	284-285	E 01 H	5/02
663-665	B 43 L	9/08	241	F 26 B	21/12	21	A 43 B	13/28	94	A 43 B	7/26	300	E 02 F	5/16
666-679	B 25 H	7/00	242	F 26 B	25/00	22A-22R	A 43 B	13/00	95	A 43 B	7/30	301-302	A 01 G	23/06
679.1	E 01 B	3/00	245-279	F 26 B	3/34		A 43 B	13/38	96	A 43 B	7/14	301-303	A 01 B	13/00
700-712	E 01 B	3/34	280-281	D 06 M	11/00	22R	A 43 B	13/39	97	A 43 B	3/26	301	A 01 B	35/00
	A 45 B	3/08	282	F 26 B	5/06	23-24	A 43 B	23/20	98	A 43 B	13/22		E 01 H	1/00
	B 01 D		283	A 45 D	20/00	24.5	A 43 B	13/28		A 43 B	23/16	303	A 01 B	43/00
	B 26 D	7/28	284-305	F 26 B	5/06	25A	A 43 B	13/02	99	A 43 B	13/14	304-307	E 02 F	1/00
	G 01 B		306-311	F 26 B	7/00		A 43 B	13/14	100-101	A 43 B	3/24	304	B 60 P	1/00
700	G 01 D	5/347	312-328	F 26 B	5/08	25R	A 43 B	13/00	102	A 43 B	1/10	305	B 60 P	1/36
701	G 01 B	3/10	329-358	F 26 B	3/00		A 43 B	5/00	103-104	A 43 B	13/00		B 60 P	1/40
702	G 01 B	5/00	359-375	F 26 B	3/08	26	A 43 B	13/02	105	A 43 B	21/00	306	B 60 P	1/00
703	G 01 B	3/00	376-396	F 26 B	7/00	27	A 43 B	13/28	106	A 43 B		307	E 02 D	17/16
704	G 01 B	5/00	397-401	F 26 B	5/14	28	A 43 B	13/18		A 63 B	71/12		E 02 F	3/00
705-707	G 01 D	5/347	402-417	F 26 B	5/04	29	A 43 B	13/20	107-108	A 43 B	23/00	308-309	G 01 F	1/00
708	G 01 B	7/00	418-442	F 26 B	7/00	30A-30R	A 43 B	13/12	109	A 43 B	23/02	308	E 02 F	9/26
709	G 01 B	3/18	443-518	F 26 B	3/00	30A	A 43 B	13/42	110	A 43 B			G 01 D	21/00
710-711	B 23 Q	17/22	519-522	F 26 B	3/32		A 43 B	13/14		A 61 F	5/01		G 01 D	5/00
712	G 01 B	5/02	523-524	F 26 B	13/10	30R	A 43 B	13/18	111	A 61 D	9/00		G 01 F	1/76
713-721	E 21 B	47/04	525-534	F 26 B	21/00	32A-32R	A 43 B	13/04	112	A 43 B	3/28	309-310	G 05 B	1/00
	G 01 B	3/02	526-534	F 26 B	19/00	32R	A 43 B	13/12		A 43 B	3/30	309-312	E 02 F	3/16
	G 01 B	5/18	535-547	F 26 B	13/10	33	A 43 B	13/22	113	A 43 B	3/00		E 02 F	3/24
722-731	G 01 F	23/04	548-556	F 26 B	21/06	33A	A 43 B	13/08	114	A 43 B	5/00	309	E 02 F	9/24
722-733	G 01 B	3/00	557	F 26 B	19/00	34A	A 43 B	21/20	115-116	A 43 B	5/04		G 05 D	7/00
732-733	B 65 H	61/00	558-561	F 26 B	21/08	34B-34R	A 43 B	21/00		A 43 B	5/16	312	G 05 B	1/00
734-749	G 01 B	3/12	560-561	F 26 B	21/06	34R	A 43 B	13/34	117.1-117.9	A 43 B	5/04	313-314	B 63 C	11/00
734-754	G 01 B	5/04	562-564	F 26 B	13/10	35A	A 43 B	21/02		A 43 B	5/16	313	B 63 G	8/00
755-771	G 01 B	3/10	565-571	F 26 B	19/00	35B	A 43 B	21/08	118.1-118.9	A 43 B	5/04	314	B 63 C	11/48
772-782	G 01 B	3/12	572	F 26 B	21/00	35R	A 43 B	21/06		A 43 B	5/16		E 21 C	50/00
	G 01 B	7/04	573-575	F 26 B	13/10		A 43 B	21/24	119.1	A 43 B	5/04	315	A 01 K	73/00
783-784	G 01 B	5/00	576-594	F 26 B	17/00		A 43 B	21/26		A 43 B	5/16		A 01 K	74/00
785-786	G 01 B	13/00	595-610	F 26 B	11/02	36A-36C	A 43 B	21/36	122-125	A 43 B	5/04		B 63 B	35/18
787-790	G 01 B	5/30	611-665	F 26 B	13/00	36R	A 43 B	21/37		A 43 B	5/16	316	A 01 K	75/00
	G 01 B	7/16		F 26 B	13/06		A 43 B	21/39	126-127	A 43 B	5/00	317	B 63 C	7/22
791	G 01 B	11/00		F 26 B	9/00		A 43 B	21/42	128	A 43 B	5/02		E 02 F	3/88
792-806	G 01 B	5/00	666-667	F 26 B	19/00	37	A 43 B	21/32	129-135	A 43 B	5/00	318-319	E 02 F	3/94
807-808	G 01 B	3/16		F 26 B	25/00	38	A 43 B	21/30	136-137	A 43 B	23/00	318	E 02 F	7/00
809	G 01 B	3/08		F 26 B	25/06	39	A 43 B	21/24	138	A 43 B	11/00	318	E 02 F	3/88
810-812	G 01 B	5/14				40	A 43 B	21/02	139	A 43 B	23/00	320-325	E 02 F	3/88
813-831	G 01 B	3/18				41-42	A 43 B	21/36	140-141	A 61 F	5/14	326	A 01 B	71/04
813-838	G 01 B	5/00				43-44	A 43 B	13/38	142	A 43 B	7/24		E 02 F	3/24
832-838	G 01 B	3/22				43-49	A 43 B	23/00	143-144	A 61 F	5/14		E 02 F	3/90
						50.1	A 43 C	11/00	145	A 43 B	7/14		E 02 F	9/04
						50.5	A 43 B	5/04	146-162	A 61 F	5/14		F 16 C	13/00
						51-53	A 43 B	11/00	153	A 43 B	7/14	327	E 02 F	3/08
						54	A 43 B	23/26	163-172	A 43 B	7/14	328-329	E 02 F	3/22
						55	A 43 B	23/07	173	A 43 B	7/16	330-333	E 02 F	9/28
						56	A 43 B	11/00	174-182	A 61 F	5/14	334	E 02 F	9/10
						57-58	A 43 B	23/00				335-336	E 02 F	3/90
						58.5-58.6	A 43 B	23/28				337	E 02 F	3/08
						59A-67D	A 43 C	15/00				338	E 02 F	3/14
						59R	A 43 B	23/28				339	E 02 F	3/18
						67R	A 43 B	13/22				340	B 63 C	7/20
						68	A 43 B	13/42					E 02 F	3/47
						69	A 43 B	23/08				341-344	E 02 F	3/00
						70A	A 43 C	11/00				345-346	B 63 B	21/50
						70R	A 41 D	27/14				345	B 63 H	15/00
						71	A 43 B	19/00					E 02 F	9/06
						71.5	A 43 C	13/00					E 02 F	9/08
						75A	A 43 C	13/00				346	E 02 F	9/18
						75R	A 43 B	13/24				347-349	E 02 F	5/02
						76C-76HH	A 43 B	23/22				348	G 05 D	1/02
						76R	A 43 B	13/42					G 05 D	1/04
						77M-77R	A 43 B	23/08				350	E 02 F	3/10
						77R	A 43 B	7/32					E 02 F	5/06
						78	A 43 B	15/00				351-352	E 02 F	5/04
						80	A 43 B	21/36				351	E 02 F	3/06
						81	A 43 B	7/16				352	B 65 G	15/00
						82	A 43 B	21/00					B 65 G	33/00
						83	A 43 B	5/00				353-358	E 02 F	3/08
						84	A 43 B	1/02					E 02 F	5/06
						85	A 43 B	1/08				359-360	B 65 G	15/30
						86	A 43 B	1/06				361	E 02 F	7/00
						87	A 43 B	1/14					B 65 G	23/04
						88	A 43 B	7/14				362	E 02 F	3/65
						89	A 43 B	7/20				363	E 02 F	3/02
						90	A 43 B	3/30				364-365	E 02 F	5/02
						91	A 43 B	7/22				366-367	E 02 D	17/13
												368-369	E 02 F	5/10
												370	B 65 G	15/30
													E 02 D	17/06
													E 02 D	17/13
													E 02 F	5/18
													E 02 F	5/10
													E 02 F	7/00
													B 65 G	29/00
													B 65 G	15/30
													E 02 D	17/06
													E 02 D	17/13

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Subclass	IPC Subclass	Notation	Subclass	IPC Subclass	Notation	Subclass	IPC Subclass	Notation	Subclass	IPC Subclass	Notation	Subclass	IPC Subclass	Notation
<b>U.S. CLASS 37--Con.</b>														
379-380	E 02 F	5 / 02	28-31	D 06 F	71 / 00	124.01-124.09	G 09 F	1 / 00	459-460	G 09 F	19 / 04	635-637	G 09 F	23 / 00
381-393	E 02 F	5 / 00	32-41	D 06 F	71 / 08	124.11-124.191	G 09 F	1 / 00	461	G 09 F	19 / 00	638	G 09 F	3 / 10
382	G 05 D	1 / 02	42-43	D 06 F	71 / 00	124.2-124.4	G 09 F	1 / 10	462	G 09 F	21 / 04	639-640	G 09 F	23 / 00
	G 05 D	1 / 04	44-45	D 06 F	67 / 00	124.5	G 09 F	19 / 00	463-469	G 09 F		641	G 09 F	23 / 10
388	E 02 F	3 / 08	44-46	D 06 F	61 / 00	200-203	G 09 F	7 / 00	463	G 09 F	9 / 37	642.01	G 09 F	3 / 00
389-390	B 65 G	15 / 30	45	D 06 F	63 / 00	204	G 09 F	13 / 02	464	B 61 L	3 / 00	642.02	G 09 F	3 / 18
391-393	B 65 G	29 / 00	47	D 06 F	63 / 00	205-206	G 09 F	13 / 08	465	G 09 F	3 / 18	643-644	G 09 F	21 / 04
392	B 65 G	15 / 30	48	D 06 F	61 / 04	207	G 09 F	7 / 02	466-467	G 09 F	11 / 295	645	G 09 F	23 / 00
394-396	E 02 F	3 / 48	49-51	D 06 F	61 / 08	208	G 09 F	13 / 16	468	G 04 B	45 / 00	646	G 09 F	3 / 18
	E 02 F	3 / 50	52-53	D 06 F	61 / 02	209-210	G 09 F	7 / 00	469	G 09 F	11 / 04	647	G 09 F	3 / 20
397	E 02 F	3 / 58	54-61	D 06 F	63 / 00	211	G 09 F	7 / 22	470	G 09 F	19 / 00	648	G 09 F	3 / 00
398-399	E 02 F	3 / 60	54	D 06 F	65 / 00	212	G 09 F	21 / 06	471	G 09 F	11 / 18	649-655	G 09 F	3 / 18
400-401	E 02 F	3 / 52	55	D 06 F	65 / 10	213	G 09 F	21 / 16	472	G 09 F	11 / 12		G 09 F	3 / 20
403-406	E 02 F	3 / 96	56	D 06 F	65 / 00	214	G 09 F	21 / 06	473-475	G 09 F	11 / 02	656	G 09 F	23 / 00
407-410	E 02 F	3 / 76	57	D 06 F	65 / 10	215	G 09 F	21 / 12	476	G 09 F	11 / 00	657	A 47 G	29 / 10
408-410	E 02 F	3 / 96	58-59	D 06 F	65 / 08	216	B 64 D	1 / 02	477	G 09 F	19 / 00		A 47 G	7 / 00
411-414	E 02 F	3 / 04	60	D 06 F	65 / 04	217	G 09 F	21 / 06	478	G 09 F	11 / 18	658-659	G 09 F	3 / 20
411-416	E 02 F	3 / 64	61	D 06 F	65 / 06	218	G 09 F	17 / 00	479	G 09 F	11 / 02	660-661.12	G 09 F	3 / 18
413	G 01 D	21 / 00	62	D 06 F	61 / 00	219	G 09 F	13 / 12	480	G 09 F	13 / 00	662-663	G 09 F	3 / 08
	G 01 D	5 / 00	63-64	D 06 F	67 / 00	299.01	G 09 F	3 / 10	481-485	G 09 F	19 / 00	664-665	G 09 F	3 / 14
414	G 05 B	19 / 02	63	D 06 F	71 / 32	300-340	G 09 F	3 / 00	486-488	G 09 F	7 / 00	666	G 09 F	3 / 16
	G 05 B	19 / 06	64	D 06 F	71 / 40	341-342	B 41 J	11 / 38	489-491	G 09 F	11 / 00	667	G 09 F	3 / 08
415	G 05 D	1 / 08	66	D 06 F	71 / 36	341-343	B 41 J	13 / 00	492	G 09 F	7 / 00	668	G 09 F	3 / 12
416	G 05 D	1 / 00		D 06 F	83 / 00	343	B 41 J	11 / 36	493-494	G 09 F	11 / 02	669	G 09 F	3 / 04
417-422	E 02 F	3 / 65	67-68	D 06 F	71 / 32	344-346	B 41 J	13 / 02	495-496	G 09 F	11 / 04	670	G 09 F	23 / 00
420	B 65 G	33 / 00	67	D 06 F	67 / 06	344-348	B 41 J	11 / 38	497-501	G 09 F	11 / 02	671-675	G 09 F	3 / 10
	E 02 F	3 / 06	68	D 06 F	67 / 00	347-348	B 41 J	15 / 02	502	G 09 F	13 / 00	700-738	A 47 G	1 / 06
422	B 65 G	17 / 00		D 06 F	69 / 02	349-351	B 41 J	11 / 14	503-507	G 09 F	11 / 02	739-742	A 47 G	1 / 08
423-424	E 02 F	9 / 22	69-73	A 47 G	25 / 00	352-357	B 41 J	11 / 64	508-511	G 09 F	11 / 30	743-744	A 47 G	1 / 06
423	B 65 G	23 / 04		E 04 H	15 / 20	358	B 43 M	17 / 00	512	G 09 F	11 / 32	745-759	A 47 G	1 / 16
	B 65 G	39 / 00	74-77.1	D 06 F	75 / 00		B 43 M	3 / 00	513	G 09 F	11 / 30	760	A 47 G	1 / 17
425	G 05 B	19 / 43	77.2-77.4	D 06 F	75 / 06	359-360	B 42 F	21 / 00	514-523	G 09 F	11 / 18	761-764	A 47 G	1 / 16
426-433	E 02 F	3 / 65	77.2	D 06 F	75 / 10		B 65 D	27 / 00	524-528	G 09 F	11 / 12	765-781	A 47 G	1 / 06
428	G 05 B	19 / 43	77.3	D 06 F	75 / 32	361-364	G 02 B	27 / 02	529	G 09 F	11 / 00	782-785	A 47 G	1 / 10
430	G 05 B	19 / 43	77.4	D 06 F	75 / 10	365	G 02 B	27 / 04	530-537	G 09 F	19 / 00	786-800	A 47 G	1 / 06
434	B 62 B	1 / 00	77.5	D 06 F	75 / 00	366-367	G 02 B	27 / 02	538-540	G 09 F	1 / 08	908-915	G 09 F	
	E 02 F	3 / 02	77.6-77.9	D 06 F	75 / 06	368-369	G 09 F	9 / 00	541	G 09 F	13 / 00			
435-436	E 02 F	3 / 64	77.6	D 06 F	75 / 12	370	G 09 F	21 / 04	542	G 09 F	13 / 20			
437-438	E 02 F	3 / 65	77.7	D 06 F	75 / 10	371	B 42 D	5 / 04	543	G 09 F	13 / 00			
438	E 02 F	9 / 22	77.8-77.82	D 06 F	75 / 14		B 42 F		544	G 09 F	13 / 22			
	G 05 B	19 / 43	77.83	D 06 F	75 / 18	372	B 42 F	17 / 06	545	G 09 F	13 / 26	1.01	F 41 A	9 / 53
439-441	E 02 F	3 / 64	77.9	D 06 F	75 / 20	373-374	B 42 F	17 / 00	546	G 09 F	13 / 18	1.02-1.03	F 41 A	9 / 62
442	E 02 F	3 / 28	79	D 06 F	75 / 40	373-376	B 42 F		547-549	G 09 F	13 / 00	1.04-1.05	F 41 A	9 / 53
443	E 02 F	3 / 32	80-81	D 06 F	75 / 00	375	B 42 F	17 / 34	550-551	G 09 F	13 / 28	1.06	F 41 A	21 / 00
444	E 02 F	3 / 40	82	D 06 F	75 / 02	376	B 42 F	17 / 32	552-558	G 09 F	13 / 00		F 41 A	25 / 00
445	E 02 F	3 / 407		D 06 F	75 / 08	377	A 47 B	49 / 00	559	G 09 F	13 / 02	1.07	F 41 A	3 / 00
446-447	E 02 F	3 / 36	83	D 06 F	75 / 04	378	B 42 F	17 / 34	560-563	G 09 F	13 / 00	1.071	F 41 C	27 / 00
448-459	E 02 F	9 / 28	84-87	D 06 F	75 / 02	379	B 42 F	13 / 12	564-565	G 09 F	13 / 04	1.08	F 41 C	9 / 00
460	E 02 F	3 / 00	88-89	D 06 F	75 / 36	380	B 42 F	17 / 02	566-567	G 09 F	23 / 00	1.09	F 41 C	9 / 02
461	B 66 C	3 / 02	90-92	D 06 F	75 / 34		B 42 F		568-578	G 09 F	13 / 04	1.11	F 41 C	9 / 00
	E 02 F	3 / 413	93	D 06 F	75 / 38	381	B 42 F	17 / 34	579-580	G 09 F	13 / 06	1.12	F 41 C	3 / 02
462-463	E 02 F	3 / 08	94-95	D 06 F	79 / 00	382-383	B 42 F	17 / 04	581	G 09 F	13 / 00	1.13	F 41 C	9 / 00
463	B 65 G	15 / 30	96	D 06 F	75 / 40	384	B 42 F	21 / 00	582-583	G 09 F	13 / 16	1.14	F 41 C	9 / 06
464	E 02 F	3 / 10	97	D 06 F	75 / 38	385-387	B 42 F	17 / 28	584-585	G 09 F	7 / 00	1.15	F 41 C	27 / 06
465	E 02 F	3 / 14	98	D 06 F	79 / 00	388	B 42 F	17 / 00	586	G 09 F	21 / 02	1.16	F 41 C	9 / 00
	E 02 F	9 / 28	99	A 47 G	25 / 00	389	B 42 F	17 / 20	587-593	G 09 F	21 / 04	2-5	F 41 A	3 / 00
466	E 02 F	3 / 00		A 47 G	25 / 72	390	B 42 F	17 / 00	594	G 09 F	7 / 12		F 41 C	7 / 00
467	E 02 F	3 / 64	100-101	D 06 F	75 / 00	391	B 42 F	17 / 22	595	G 09 F	7 / 16	6-7	F 41 A	9 / 61
468	E 02 F	3 / 96	102	D 06 C	3 / 00	392	B 42 F	17 / 18	596-597	G 09 F	7 / 00	8-41	F 41 C	7 / 00
			102.1	D 06 C	3 / 08	393	B 42 F	21 / 00	598	A 63 B	71 / 06	8-45	F 41 A	3 / 00
			102.2	D 05 C	1 / 04	394	B 42 F	17 / 18	599	G 09 F	23 / 00	16.1	F 41 C	27 / 00
			102.21	D 06 C	3 / 06	395-398	B 42 F	17 / 22	600	G 09 F	7 / 04	25	F 41 A	15 / 00
			102.3-102.91	D 06 C	3 / 08	399	B 42 F	1 / 10	601-602	G 09 F	7 / 00	43	F 41 C	7 / 00
			103-139	D 06 F	81 / 00		B 42 F	3 / 00	603-604	G 09 F	17 / 00	46-48	F 41 A	15 / 00
			140	D 06 F	81 / 14		B 42 F	5 / 00	605	G 09 F	7 / 00	49.01-50	F 41 A	9 / 61
				D 06 F	83 / 00	400	B 42 F	17 / 22	606.01-606.19	G 09 F	15 / 00	49.1	F 41 C	27 / 00
1A	D 06 F	67 / 00		D 06 F	79 / 00	401-402	B 42 F	13 / 00		G 09 F	15 / 02	51	F 41 C	7 / 00
	D 06 F	73 / 02	141	D 06 F	79 / 00	403	B 42 F	17 / 22	607.01-607.15	G 09 F	15 / 02	52	F 41 C	9 / 04
1B	D 06 F	71 / 30	142	D 06 F	79 / 02	404	B 42 F	3 / 00	607.01-608	G 09 F	15 / 00	53	F 41 C	9 / 00
1C-1D	D 06 F	71 / 04	143	D 06 F	67 / 04	405	B 42 F	5 / 00	609	G 09 F	23 / 00	54-55	F 41 C	3 / 00
1C-1R	D 06 F	67 / 00	144	D 06 F		406-410	G 09 F	19 / 00	610	G 09 F	15 / 00	54-58	F 41 C	3 / 06
1R	D 06 F	71 / 32		D 06 M	15 / 423	411-425	G 09 F	19 / 08	611.01-612	G 09 F	7 / 00	54	F 41 A	33 / 00
2-4	D 06 F	89 / 00				426	G 09 F	19 / 00	612	G 09 F		57	F 41 C	3 / 08
	D 06 F	61 / 00				427	A 47 F	11 / 06	613-615	G 09 F	19 / 00	58	F 41 C	3 / 00
	D 06 F	63 / 00												