

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 313--Con.														
356-357	H 01 J	19/00	569	H 01 K	1/50	112	H 05 B	31/18	84	B 60 Q	7/00	209R	H 05 B	41/36
358	F 21 K	2/08	570-577	H 01 J	17/20	113-128	H 05 B	31/22	84.51-84.61	H 01 J	17/36		H 05 B	37/02
	H 01 J			H 01 J	61/12	129	H 05 B	31/02	85	H 01 J	1/52		H 05 B	39/02
359.1	H 01 K		578-579	H 01 K	1/50	130	H 05 B	31/18		H 01 J	5/02		H 05 B	39/04
	F 03 H	1/00	580	H 01 K	1/00	131	H 05 B	31/30	86	H 05 B	37/00		H 05 B	41/36
	H 05 H		581	H 01 J	17/00		H 05 B	31/32		H 05 B	41/14	209SC	F 02 P	7/03
360.1	H 01 J	5/06		H 01 J	61/00	132-134	H 05 B	31/18	87-93	H 05 B	39/10		H 05 B	37/02
	H 05 H		582-587	H 01 J	11/00	135	G 05 F	1/02		H 05 B	41/46		H 05 B	39/04
361.1	H 01 J	27/02		H 01 J	11/10	136	B 23 K	9/12	94-99	H 05 B	39/00		H 05 B	41/16
	H 05 H			H 01 J	17/49		H 05 B			H 05 B	41/14		H 05 B	41/36
362.1	H 01 J	27/26	588	H 01 J	17/00				100	H 05 B	39/04	209T	F 02 P	15/00
	H 05 H		589	H 01 J	17/48					H 05 B	41/36		F 02 P	3/04
363.1	H 01 J	27/02	590	H 01 J	17/00	U.S. CLASS 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS			101-103	H 05 B	39/00		H 05 B	37/02
	H 05 H			H 01 J	61/00				101-103	H 05 B	41/14		H 05 B	39/00
364	H 01 J	29/00	591	H 01 J	17/50	1	H 01 J	23/34	104	H 05 B	39/04		H 05 B	41/00
365-390	H 01 J	31/00	592-593	H 01 J	17/54	3	H 01 J	29/98	105	H 05 B	41/36	210-226	H 05 B	41/36
	H 01 J	31/26	594	H 01 J	17/44		H 01 J	29/96	106-107	H 05 B	39/04		H 05 B	39/04
391-401	H 01 J	31/48	595-603	H 01 J	61/54	3.5-3.6	H 01 J	25/34	108-110	H 01 J	13/28	227A	B 23 H	1/02
402-408	H 01 J	29/80		H 01 J	17/30	4-5	H 01 J	25/00		H 01 J	17/22		B 23 K	9/00
409-417	H 01 J	29/50		H 01 J	17/46	5.11-5.12	H 01 J	25/02	111.01-111.91	H 01 J	7/24		H 05 B	37/00
418-419	H 01 J	31/02	604	H 01 J	61/54	5.13	H 01 J	25/50		H 05 B	31/26		H 05 B	39/00
420	H 01 J	33/00		H 01 J	17/00	5.14-5.17	H 01 J	25/02	112-114	H 01 J	13/32	227R	H 05 B	37/00
421-431	H 01 J	29/70		H 01 J	17/42	5.18-5.28	H 01 J	25/22		H 01 J	17/28		H 05 B	39/00
432-439	H 01 J	29/74	605-606	H 01 J	17/00	5.29	H 01 J	25/12		H 01 J	19/74		H 05 B	41/14
440	H 01 J	29/70		H 01 J	61/00	5.31	H 01 J	25/16		H 01 J	61/52	228-245	H 05 B	37/00
441-460	H 01 J	29/46	607	H 01 J	11/00	5.32	H 01 J	25/18	115-116	H 01 J	7/24		H 05 B	39/00
461-463	H 01 J	29/10		H 01 J	61/06	5.33	H 01 J	25/02		H 01 J	13/32		H 05 B	41/14
464	H 01 J	29/16		H 01 J	65/00	5.34-5.35	H 01 J	23/08		H 01 J	61/52	246-287	H 05 B	41/16
465	H 01 J	29/12	608	H 01 J	11/00	5.36-5.37	H 01 J	23/18	117-118	H 01 J	13/32		H 05 B	41/24
466-476	H 01 J	29/10		H 01 J	17/00	5.38	H 01 J	23/02		H 01 J	17/28	288-290	H 05 B	37/00
477HC	H 01 J	29/92		H 01 J	61/06	5.39-5.49	H 01 J	25/10		H 01 J	19/74		H 05 B	39/00
477R	H 01 J	29/86	609-616	H 01 J	17/02	5.51-5.54	H 01 J	23/20		H 01 J	61/52		H 05 B	41/14
	H 01 J	29/92		H 01 J	61/02	7	H 01 J	25/00	119-128	H 01 J	7/24	291-311	G 05 F	1/00
478	H 01 J	29/89	617	H 01 J	17/30	8	H 01 J	29/06		H 05 B	37/00		H 05 B	37/02
479	H 01 J	29/88		H 01 J	61/54	8.51	H 01 J	31/06	129-136	H 05 B	41/00		H 05 B	39/04
480	H 01 J	29/86	618	H 01 J	17/06	8.61	H 01 J	31/58		H 01 J	1/60	312-325	H 05 B	41/36
481	H 01 J	29/94		H 01 J	61/09	9	H 01 J	31/60		H 05 B	37/04		H 05 B	39/00
482	H 01 J	29/82		H 01 J	17/00	10	H 01 J	29/98	137-148	H 05 B	41/16		H 05 B	41/00
483-512	H 01 J	1/62	620-622	H 01 J	17/04	11	H 01 J	31/26		H 05 B	41/24	326-358	H 01 J	11/10
	H 01 J	63/04		H 01 J	61/04	11.5	G 09 G	1/28	149-159	H 05 B	37/02		H 01 J	13/48
513	A 01 K	7/00	623-625	H 01 J	17/18	12.1	H 01 J	29/41		H 05 B	39/04		H 01 J	15/04
	H 01 J			H 01 J	61/36	13.1-13.11	H 01 J	29/56	160-168	H 05 B	37/00		H 01 J	17/36
514-521	H 01 J	17/00		H 01 J	17/02	14-16	H 01 J	29/46	169.1-169.4	G 09 G	3/10		H 05 B	37/00
522	H 01 J	19/00	626	H 01 J	17/02	17	H 01 J	29/56	170-177	H 05 B	37/00	359	H 01 K	13/00
	H 01 J	21/00		H 01 J	61/02	30	H 01 J	29/70		H 05 B	39/00		H 05 B	39/00
523-524	H 01 J	40/00	627-628	H 01 J	17/04	32-33	H 01 J	13/46	178-183	H 05 B	35/00	360-361	H 05 B	37/02
	H 01 J	40/16		H 01 J	61/06		H 01 J	17/34		H 05 B	37/00		H 05 B	39/04
525-530	H 01 J	31/50	629-630	H 01 J	17/06		H 01 J	19/78		H 05 B	41/00		H 05 B	41/36
	H 01 J	40/18		H 01 J	61/06		H 01 J	23/16	184-185	H 05 B	37/00	362	H 05 B	37/02
531	H 01 J	40/16	631-633	H 01 J	17/04		H 01 J	7/44		H 05 B	39/00		H 05 B	39/06
532	H 01 J	43/04		H 01 J	61/04	34	H 01 K	1/62	185S	H 05 B	41/00		H 05 B	41/04
533	H 01 J	43/18		H 01 J	17/16	35-38	H 01 Q	1/26		F 21 S	4/00	363	H 05 B	41/18
534-535	H 01 J	43/20	634	H 01 J	17/16		H 01 J	13/46		H 05 B	37/00		H 05 B	37/00
536	H 01 J	43/20		H 01 J	61/30		H 01 J	17/34	186-193	H 05 B	41/00		H 05 B	39/00
	H 01 J	43/26	635	H 01 J	17/16		H 01 J	19/78		H 05 B	37/00	364	H 05 B	41/00
537	H 01 J	40/00		H 01 J	61/35		H 01 J	23/16	194-199	H 05 B	41/00	365	G 09 G	1/04
	H 01 J	40/16	636	H 01 J	17/16		H 01 J	29/96		G 05 F	1/00		H 01 J	29/70
538	H 01 J	40/10		H 01 J	61/30		H 01 J	7/44		H 05 B	37/02		H 01 J	29/72
539-540	H 01 J	40/00	637	H 01 J	17/20		H 01 J	1/62		H 05 B	39/04		G 09 G	1/22
	H 01 J	40/00		H 01 J	61/12	39	H 01 J	19/80	200A	H 05 B	37/00	366-367	H 01 J	31/16
541	H 01 J	40/16	638	H 01 J	17/20	39.3	H 01 J	7/46		H 05 B	41/36		G 09 G	1/04
542	H 01 J	40/06		H 01 J	61/18	39.51	H 01 J	25/34		H 05 B	39/00		H 01 J	29/70
543	H 01 J	40/06	639-642	H 01 J	17/20	39.53	H 01 J	25/50		H 05 B	39/09		H 01 J	29/72
	H 01 J	40/18		H 01 J	61/20		H 01 J	23/36		H 05 B	39/09	368.11-368.13	H 01 J	29/72
544	H 01 J	40/06	643	H 01 J	17/20		H 01 J	25/50		H 05 B	41/14		H 01 J	29/51
545-547	H 01 J	17/22		H 01 J	61/16		H 01 J	25/58		H 05 B	41/30		368.15	H 01 J
	H 01 J	19/70	U.S. CLASS 314 ELECTRIC LAMP AND DISCHARGE DEVICES: CONSUMABLE ELECTRODES				H 01 J	23/22		H 05 B	37/00		368.16	H 01 J
	H 01 J	61/24	1-6	H 05 B	41/46		H 01 J	25/50	209CD	F 02 P	3/08		368.17-368.28	G 09 G
	H 01 K	1/52	7	H 05 B	41/14	39.55-39.63	H 01 J	25/50		H 05 B	37/02	369		H 01 J
548	H 01 K	1/54	8	H 05 B	41/14		H 01 J	25/58		H 05 B	39/04			H 01 J
549	H 01 J	17/24	9	H 05 B	31/34		H 01 J	25/50		H 05 B	41/00			H 01 J
	H 01 J	19/70	10-19	H 05 B	41/14		H 01 J	23/22		H 05 B	39/00			H 01 J
	H 01 J	61/26	20	H 05 B	31/26	39.67	H 01 J	23/22		H 05 B	41/14			H 01 J
550-551	H 01 J	17/26		H 05 B	31/28	39.71-39.73	H 01 J	25/50		H 05 B	41/14			H 01 J
	H 01 J	17/28	21-25	H 05 B	31/02		H 01 J	25/58	209M	F 02 P	7/00	370-371	G 09 G	1/04
552	H 01 J	17/22	26-30	H 05 B	31/24	39.75	H 01 J	25/50		F 02 P	9/00		H 01 J	29/56
	H 01 J	19/70	31-33	H 05 B	41/14	39.77	H 01 J	25/50		H 05 B	37/02	372-374	G 09 G	1/04
	H 01 J	61/24	34-35	H 05 B	31/06	40-75	H 01 J	13/46		H 05 B	39/04		H 03 K	17/88
553-556	H 01 J	17/24		H 05 B	31/06		H 01 J	17/34		H 05 B	41/00		G 09 G	1/04
	H 01 J	19/70	36-38	H 05 B	31/48		H 01 J	19/78		H 05 B	37/02		H 01 J	29/76
	H 01 J	61/26	39-43</											

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U.S. CLASS 315--Con.														
382-382.1	G 09 G	1/04	34	H 02 P	1/54		H 02 P	3/00		H 02 P	7/12		H 02 P	6/14
	H 01 J	29/58		H 02 P	5/00		H 02 P	5/00	248	H 02 K	23/08	430-431	H 02 P	1/04
383-386	G 09 G	1/04		H 02 P	5/46		H 02 P	7/00		H 02 K	23/12	432	H 02 P	7/00
	H 01 J	29/52	35-37	H 02 K	33/00	115	H 02 K	7/06		H 02 P	1/18	433	H 02 K	17/32
387-391	G 09 G	1/04		H 02 P	1/24		H 02 P	1/00		H 02 P	3/08		H 02 K	23/68
	H 01 J	29/70		H 02 P	1/54		H 02 P	3/00		H 02 P	7/06		H 02 K	27/30
	H 01 J	29/72		H 02 P	5/00		H 02 P	5/00	249-250	H 02 K	23/00		H 02 P	29/04
392	G 01 R	13/28		H 02 P	5/46		H 02 P	7/00		H 02 K	23/08		H 02 P	7/00
	G 09 G	1/04	38	H 02 K	41/00	116	H 01 L	41/04		H 02 P	1/18	434	H 02 K	17/32
393	G 09 G	1/04		H 02 P	1/54		H 02 N			H 02 P	3/08		H 02 K	23/68
	H 01 J	29/72		H 02 P	5/00	117	H 02 N	10/00		H 02 P	7/06		H 02 K	27/30
394-396	G 09 G	1/04		H 02 P	5/46	118	H 02 N	2/00	251-252	H 02 K	23/08		H 02 P	7/00
	H 01 J	29/70		B 23 Q	5/10	119	H 02 K	33/00		H 02 P	1/18	436	H 02 P	7/00
	H 01 J	29/72	39	B 23 Q	5/28		H 02 P	1/00		H 02 P	3/08	437	H 02 K	23/00
397	G 09 G	1/04	40	H 02 K	7/12		H 02 P	3/00		H 02 P	7/06		H 02 K	37/00
	H 01 J	29/70		H 02 P	5/00		H 02 P	5/00		H 02 P	7/10	438	G 05 F	1/70
	H 01 J	29/76	41-43	H 02 P	1/54		H 02 P	7/00	253	H 02 K	21/20		H 02 P	23/00
398	G 09 G	1/04		H 02 P	5/00	120	A 47 C	20/04		H 02 P	1/18		H 02 P	25/00
	H 01 J	29/54		H 02 P	5/46		H 02 K			H 02 P	3/08		H 02 P	27/00
399-408	G 09 G	1/04	44	H 02 P	1/54		H 02 P	1/00		H 02 P	7/06	440-442	H 02 P	1/00
	H 01 J	29/70		H 02 P	5/46		H 02 P	3/00	254.1-254.2	H 02 P	25/08		H 02 P	3/00
	H 01 J	29/76		H 02 P	5/74		H 02 P	5/00	255	H 02 P	1/00		H 02 P	5/00
409	G 09 G	1/04	45-46	H 02 K	17/34		H 02 P	7/00		H 02 P	3/00		H 02 P	7/00
	H 01 J	29/70		H 02 P	1/54	121	H 02 K	33/00		H 02 P	5/00	443-444	H 02 P	1/04
	H 01 J	29/74		H 02 P	5/00		H 02 K	41/00		H 02 P	7/00		H 02 P	5/00
410	G 09 G	1/04		H 02 P	5/46		H 02 P	1/00	256-300	H 02 P	1/00		H 02 P	7/00
	H 01 J	29/74	47	H 02 K	17/36		H 02 P	3/00		H 02 P	3/00	445-460	G 05 B	5/00
411	H 01 J	29/70		H 02 P	1/54		H 02 P	5/00		H 02 P	3/20		H 02 H	7/08
500	H 01 J	23/00		H 02 P	5/00		H 02 P	7/00		H 02 P	5/00		H 02 P	1/00
	H 01 J	23/34		H 02 P	5/46	122-125	H 02 K	33/12		H 02 P	7/00		H 02 P	3/00
	H 01 J	25/00	48	H 02 K	17/34		H 02 P	1/00	362-370	H 02 K	17/32		H 02 P	7/00
	H 05 H	7/00		H 02 P	1/54		H 02 P	3/00		H 02 K	23/68	461	G 05 B	5/00
	H 05 H	7/00		H 02 P	5/00		H 02 P	5/00		H 02 K	27/30		H 02 H	7/08
501	H 05 H	13/00		H 02 P	5/46		H 02 P	7/00		H 02 K	7/10		H 02 P	1/04
502	H 05 H	15/00	49-50	H 02 P	5/00	126-134	H 02 K	33/00		H 02 P	29/04		H 02 P	3/00
503	H 05 H	11/00	51	H 02 P	1/54		H 02 P	1/00		H 02 P	3/00		H 02 P	5/00
504	H 05 H	9/00		H 02 P	5/00		H 02 P	3/00	371-372	H 02 K	17/32		H 02 P	7/00
505	H 05 H	7/00		H 02 P	5/46		H 02 P	5/00		H 02 K	23/68	462	G 05 B	5/00
506	H 01 J	23/00	52	B 61 C	15/08		H 02 P	7/00		H 02 K	27/30		H 02 H	7/08
507	H 01 J	23/34		B 61 C	15/12	135	H 02 K	41/00		H 02 K	7/10		H 02 P	1/12
	H 05 H	7/00		H 02 P	5/00		H 02 P	1/00		H 02 P	29/04		H 02 P	3/00
				H 02 P	5/46		H 02 P	3/00		H 02 P	3/00		H 02 P	3/08
				H 02 P	1/54		H 02 P	5/00		H 02 P	3/04		H 02 P	7/00
			53-65	H 02 P	3/00		H 02 P	7/00	373-374	H 02 P	3/10		H 02 P	7/06
				H 02 P	5/00	136-137	H 02 K	7/10		H 02 P	3/20	463-465	G 05 B	5/00
				H 02 P	5/46		H 02 K	7/20	375	H 02 P	3/00		H 02 H	7/08
			66-67	H 02 P	5/00		H 02 P	1/00	376	H 02 P	3/14		H 02 P	1/04
				H 02 P	5/46	139	H 02 P	1/00		H 02 P	3/18		H 02 P	3/00
				H 02 P	7/08	140	H 02 P	25/30	377-378	H 02 P	3/00		H 02 P	5/00
			68-69	H 02 P	5/46		H 02 P	7/00	379-381	H 02 P	3/12		H 02 P	7/00
			70-75	H 02 P	5/50	141-147	H 02 P	7/32		H 02 P	3/22	466-470	G 05 B	5/00
			76	H 02 P	5/48		H 02 P	7/34	382	H 02 P	3/00		G 05 D	3/00
			77-78	H 02 P	5/46	148	H 02 P	25/30	383	H 02 P	1/00		H 02 H	7/08
			79	H 02 P	23/00	149	H 02 P	25/30		H 02 P	5/00		H 02 P	1/04
				H 02 P	25/00		H 02 P	7/00		H 02 P	7/00		H 02 P	3/00
				H 02 P	27/00	150	H 02 K	7/02	400.01	H 02 P	6/00		H 02 P	7/00
				H 02 P	5/46		H 02 P	25/30		H 02 P	6/14	471-473	G 05 B	5/00
				H 02 P	7/06		H 02 P	7/00		H 02 P	21/00		G 05 D	23/00
			80	H 02 P	5/46	151-158	H 02 P	25/30	400.02	H 02 P	6/06		H 02 H	7/08
				H 02 P	5/74		H 02 P	7/00	400.04	H 02 P	6/16		H 02 P	1/04
				H 02 P	7/06	159	H 02 K	17/32	400.05-400.06	H 02 P	6/06		H 02 P	3/00
			81	H 02 P	23/00		H 02 K	23/68	400.07	H 02 P	6/16		H 02 P	7/00
				H 02 P	25/00		H 02 K	27/30	400.08	H 02 P	6/00	474-489	G 05 B	5/00
				H 02 P	27/00		H 02 K	29/00	400.09	H 02 P	1/04		H 02 H	7/08
				H 02 P	5/46		H 02 K	7/10	400.1-400.11	H 02 P	6/04		H 02 P	1/04
				H 02 P	7/06	160	H 02 K	17/32	400.12	H 02 P	6/16		H 02 P	3/00
			82-83	H 02 P	5/00		H 02 K	23/68	400.13	H 03 K	5/00		H 02 P	7/00
				H 02 P	5/46		H 02 K	27/30	400.14	H 02 P	23/12	490	G 01 R	31/02
				H 02 P	7/06		H 02 K	7/10	400.15	H 02 P	6/12		H 02 H	3/04
			84	H 02 P	5/00	161	H 02 K	7/02	400.16	H 02 P	6/00		H 02 H	7/08
				H 02 P	5/46	162-164	B 23 Q	35/00	400.17	H 02 P	1/04		H 02 K	11/00
				H 02 P	7/10		B 23 Q	35/14	400.18	H 02 P	1/00		H 02 P	1/00
				H 02 P	5/00		G 05 B	19/02	400.19	H 02 P	1/04		H 02 P	3/00
			85	H 02 P	5/46		H 02 P	23/00	400.2	H 03 K	5/00		H 02 P	5/00
				H 02 P	3/00		H 02 P	25/00	400.21	H 02 H	7/08		H 02 P	7/00
			86-89	H 02 P	5/00		H 02 P	27/00	400.22	H 02 H	7/09	491	H 02 P	1/00
				H 02 P	5/46		H 02 P	7/18	400.23	H 02 K	29/06		H 02 P	3/00
			90	H 02 P	1/54	244	H 02 K	27/00		H 02 P	6/10		H 02 P	5/00
				H 02 P	5/00		H 02 P	1/24	400.24-400.25	H 02 P	6/00		H 02 P	7/00
				H 02 P	5/46		H 02 P	25/10	400.26-400.28	H 02 P	6/14	492	H 01 F	13/00
				H 02 P	1/58		H 02 P	3/18	400.29	H 02 P	6/00		H 02 K	23/00
			91	H 02 P	5/00	245	H 02 K	23/64	400.3-400.31	H 02 P	27/00		H 02 P	1/00
				H 02 P	5/46		H 02 P	1/24	400.32	H 02 K	29/06		H 02 P	3/00
			92-100	H 02 P	1/54		H 02 P	25/14		H 02 P	6/00		H 02 P	5/00
				H 02 P	5/00	246	H 02 P	3/18	400.33	H 02 P	1/04		H 02 P	7/00
				H 02 P	5/46		H 02 K	23/08	400.34	H 02 P	6/18	493-495	H 02 P	1/00
			101	H 02 P	1/54		H 02 P	1/18	400.35-400.36	H 02 P	6/00		H 02 P	23/00
			102	H 02 P	1/58		H 02 P	3/08		H 02 P	6/16		H 02 P	27/00
			103-104	H 02 P	1									