

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 310--Con.																	
308-309	H 02 N	1/00	138.1-140	A 47 F	3/00		A 47 B	97/00	42-46	H 01 J	1/02		H 01 K	1/18			
310	H 02 N	1/04	139	E 06 B		277	A 47 B	83/00		H 01 J	61/52	275-277	H 01 J	1/90			
311-371	H 01 L	41/00	140	F 16 B	12/00	278-281	A 47 B	81/00		H 01 J	7/24		H 01 J	19/44			
	H 02 N	2/00	140.1-140.4	A 47 B	96/18		A 47 B	97/00		H 01 K	1/58		H 01 K	1/18			
400	H 02 K	5/00		A 47 F	9/00	282	A 47 B	77/10	47	H 01 J	1/02	278-279	H 01 J	1/94			
	H 02 K	5/15	183-193	A 47 B	63/00	283-284	A 47 B	97/00		H 01 J	61/52		H 01 J	19/48			
401	H 02 K	5/00		B 42 F	17/00	283-292	A 47 B	81/00		H 01 J	7/24		H 01 K	1/18			
	H 02 K	5/15	183	A 47 B	97/02	284	A 47 G	19/26	48	H 01 J	5/48	281	H 01 J	1/88			
	H 02 K	5/16	184	B 42 F	15/00		A 47 G	19/32	49-51	H 01 J	5/48		H 01 J	19/42			
402-405	H 02 K	1/18	185-187	B 42 F	9/00		A 47 G	23/00		H 01 J	5/50		H 01 K	1/18			
	H 02 K	5/00	189	B 42 F	13/00	291-293.3	A 47 B	97/00	52	H 01 J	29/48	282-290	H 01 J	1/96			
	H 02 K	5/15	193	B 42 F	7/00	293.1-293.3	A 47 B	47/00		H 01 J			H 01 J	19/50			
406-410	H 02 K	5/00	193.4	A 47 B	63/06		A 47 B	96/00		H 01 K			H 01 K	1/18			
	H 02 K	5/15	194-197	A 47 B	17/00		A 47 F	3/06	53	H 01 J	27/00	291	H 01 J	1/88			
411-415	H 02 K	1/18		A 47 B	19/00	294	A 47 B	88/06	54	H 01 J	17/32		H 01 J	19/42			
	H 02 K	5/00		A 47 B	27/00		A 47 B			H 01 J	65/08	292	H 01 J	1/88			
	H 02 K	5/15		A 47 B	41/00	295	A 47 B	88/00		H 01 J	7/40		H 01 J	19/42			
416	H 02 K	5/00	198-202	A 47 B	87/00	296	A 47 B	95/00	62	H 05 H	13/00		H 01 K	1/18			
	H 02 K	5/15	198-203	A 47 B	53/00		A 47 B	96/00		H 05 H		293-304	H 01 J	1/46			
417	H 02 K	5/00		A 47 B	77/00	297	E 06 B	9/15	93	H 01 J	47/00		H 01 J	21/10			
	H 02 K	5/15		A 47 B	95/00	298-299	E 04 B		103CM	H 01 J	43/00	305	H 01 J	1/20			
	H 02 K	5/20	203	A 47 B	83/04	298	F 25 D	25/02	103R	H 01 J	43/00		H 01 J	1/42			
418	H 02 K	5/00	204	A 47 B	17/04	299	A 47 B	49/00	104	H 01 J	43/00		H 01 J	13/18			
419	H 02 K	5/26		A 47 B	97/00	300-303	A 47 B	95/00	105CM	H 01 J	43/00		H 01 J	19/14			
420-424	H 02 K	1/30	205	A 47 B	45/00	300-321	A 47 B	88/00	105R	H 01 J	43/00		H 01 K	11/00			
	H 02 K	5/00		A 47 B	53/00	305-307	A 47 B	95/00	106-107	H 01 J	43/00	306-308	H 01 J	1/46			
425	H 02 K	5/16	206-207	A 46 B	17/00	306	A 47 B	57/00	107.5	H 01 J	31/14		H 01 J	21/10			
426-430	H 02 K	5/00		A 47 G	29/08	312	A 47 B	51/00	110-117	H 01 J	5/16	309	H 01 J	1/02			
431-433	H 02 K	1/18	208.1-210	A 47 B	81/00		A 47 B	57/00		H 01 J	61/40	310	H 01 J	9/02			
	H 02 K	5/00	209	A 61 C	19/02	313-316	A 47 B	77/10		H 01 K	1/26		H 01 J				
				A 61 C	19/02	318	A 47 B	95/00		H 01 K	1/30	311	H 01 J	1/00			
				B 01 L	9/02	319.1-319.9	A 47 B	95/02	118	F 02 M	57/06		H 01 J	19/06			
				A 22 C	21/00	321	A 47 B	95/00		F 02 P	13/00	312	H 01 J	19/54			
				A 47 B		321.5	E 06 B	1/00		H 01 T	13/00		H 01 J	5/02			
				A 47 J	43/22	322-348.5	A 47 B	88/00	119	H 01 T	13/00	313	H 01 J	1/52			
				A 47 G	29/12	325	A 47 B	95/00	120	F 02 M	57/06		H 01 J	19/40			
				A 47 G	29/14	326	A 47 B	49/00		H 01 T	13/02	314	H 01 J	7/00			
				B 65 F	1/14	331-332	A 47 B	95/00	121	H 01 T	13/56	315	H 01 K	1/14			
				A 47 B	81/00	332.1	A 47 B	95/02	122	H 01 T	13/24		H 01 K				
				A 47 B	75/00	333	A 47 B	95/00	123-124	H 01 T	13/46	316	H 01 K	9/00			
				A 47 B	97/00	348.6	A 47 B	95/02	125-126	H 01 T	13/14		H 01 K				
				E 05 B	65/46	349-351	A 47 B	88/00		H 01 T	13/24	317	H 01 J	5/00			
				E 05 B		351.1-351.9	A 47 B	95/00	127	H 01 T	13/02	318.01-318.12	H 01 J	5/48			
				E 05 C	9/10	352	A 47 B	97/00	128	H 01 T	13/22		H 01 J	5/50			
				E 05 B	53/00	400-409	A 47 B	96/04	129	H 01 T	13/48	323	B 60 S	1/60			
				E 05 C	7/06	410	A 47 B	81/00	130-132	H 01 T	13/02	324	H 01 J	19/42			
				A 47 B	81/00				133	H 01 T	13/28		H 01 J	5/02			
				A 47 B	97/00				134	H 01 T	13/05	325	H 01 J	17/00			
				A 47 B	67/00				135	H 01 T	13/04		H 01 J	21/00			
				A 47 G	1/00				136-143	H 01 T	13/20	326	H 01 J	1/00			
				G 02 B	5/08				144-145	H 01 T	13/00		H 01 K	1/02			
				A 47 B	77/06	1		H 01 J	61/94	146-152	H 01 J	1/00	327	H 01 J	1/02		
				A 47 K	1/04			H 01 J			H 01 J	21/22	328	H 01 J	1/06		
				A 47 L	19/02			H 01 K			H 01 J	35/28	329	H 01 J	1/53		
				E 03 C	1/18	2.1		H 01 J	31/00	153-162	H 01 J	1/50		H 01 J	29/08		
				A 47 B	77/08	3		H 01 J	31/14		H 01 J	23/10		H 01 J	31/26		
				A 47 B	81/00			H 01 J			H 01 J	29/76		H 01 J	31/58		
				A 47 B	77/06			H 01 K			H 01 J	3/20	331-335	H 01 J	5/50		
				A 47 F	9/00	5-6		H 01 J	13/00		H 01 J	3/32	336	H 01 J	1/16		
				A 47 B	97/04			H 01 J	17/00	163-167	H 01 J	13/00		H 01 J	19/10		
				A 47 B	27/00			H 01 J	21/00	168-169	H 01 J	13/56	337-339	H 01 J	1/20		
				A 47 B	63/04	7		H 01 J	7/16	170-171	H 01 J	13/34		H 01 J	19/14		
				A 47 B	41/06	8		H 01 J	61/96	172	H 01 J	13/00	340	H 01 J	1/24		
				A 47 B	63/00	9		H 01 J	1/20	173	H 01 J	13/12		H 01 J	19/18		
				A 47 B	65/00	10		H 01 J	7/24	230	H 01 J	27/00	341-343	H 01 J	1/15		
				A 47 B	81/00	11		H 01 J	1/02	231.01-231.71	H 01 J	17/26		H 01 J	19/08		
				B 42 F	21/00			H 01 J	61/52		H 01 J	61/28		H 01 K	1/02		
				A 47 B	83/00			H 01 J	7/24	232	H 01 J	7/00	344	H 01 J	1/16		
				A 47 B	77/08			H 01 K	1/58	233	H 01 J	21/00		H 01 J	19/10		
				A 47 F	3/04	11.5		H 01 T	13/00	234	H 01 J	11/00		H 01 K	1/14		
				A 47 B	83/00	12-14		H 01 J	1/02		H 01 J	65/00	345-346	H 01 J	19/06		
				A 47 B	81/00			H 01 J	61/52	235	H 01 J	1/00		H 01 K	1/04		
				A 47 B	97/00			H 01 J	7/24	236	H 01 J	1/00	345	H 01 J	1/14		
				A 47 B	85/00			H 01 K	1/58		H 01 J	9/02	346DC	H 01 J	1/14		
				A 47 B	67/02	15		H 01 J	1/02	237	H 01 J	1/00		H 01 J	1/28		
				A 47 B	91/00			H 01 J	7/24	238	H 01 J	1/00	346R	H 01 J	1/14		
				A 47 B	95/00	16		H 01 J	1/10		H 01 J	1/18	347	H 01 J	1/20		
				A 47 B	96/00			H 01 J	61/52		H 01 J	19/00		H 01 J	19/14		
				A 47 B													

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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 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					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	209R				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					
	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					
359.1	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															H 05 B	37/02
	H 05 H			H 01 J	61/00				101-103	H 05 B	39/00						H 05 B	39/04				
364	H 01 J	29/00	591	H 01 J	17/50				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				105	H 05 B	41/36						H 05 B	41/36				
	H 01 J	31/26	594	H 01 J	17/44	1	H 01 J	23/34		H 05 B	39/00	210-226					H 05 B	37/02				
	H 01 J	31/48		H 01 J	61/54	3	H 01 J	29/98	106-107	H 05 B	39/04						H 05 B	39/04				
391-401	H 01 J	29/80	595-603	H 01 J	17/30		H 01 J	23/16		H 05 B	41/36	227A				B 23 H	1/02					
402-408	H 01 J	29/50		H 01 J	17/46		H 01 J	29/96		H 05 B	41/14					B 23 K	9/00					
409-417	H 01 J	31/02		H 01 J	61/54	3.5-3.6	H 01 J	25/34	108-110	H 01 J	13/28					H 05 B	37/00					
418-419	H 01 J	33/00	604	H 01 J	17/00	4-5	H 01 J	25/00		H 01 J	17/22					H 05 B	39/00					
420	H 01 J	29/70		H 01 J	17/42	5.11-5.12	H 01 J	25/02	111.01-111.91	H 01 J	7/24					H 05 B	41/14					
421-431	H 01 J	29/74	605-606	H 01 J	17/00	5.13	H 01 J	25/50		H 05 B	31/26	227R				H 05 B	37/00					
432-439	H 01 J	29/70		H 01 J	61/00	5.14-5.17	H 01 J	25/02	112-114	H 01 J	13/32					H 05 B	39/00					
440	H 01 J	29/46	607	H 01 J	11/00	5.18-5.28	H 01 J	25/22		H 01 J	17/28					H 05 B	41/14					
441-460	H 01 J	29/10		H 01 J	61/06	5.29	H 01 J	25/12		H 01 J	19/74					H 05 B	43/00					
461-463	H 01 J	29/16		H 01 J	65/00		H 01 J	25/16		H 01 J	61/52	228-245				H 05 B	37/00					
464	H 01 J	29/12	608	H 01 J	11/00	5.31	H 01 J	25/14	115-116	H 01 J	13/32					H 05 B	39/00					
465	H 01 J	29/10		H 01 J	17/00	5.32	H 01 J	25/18		H 01 J	61/52	246-287				H 05 B	41/14					
466-476	H 01 J	29/92		H 01 J	61/06	5.33	H 01 J	25/02		H 01 J	7/24					H 05 B	41/24					
477HC	H 01 J	29/86	609-616	H 01 J	17/02	5.34-5.35	H 01 J	23/08	117-118	H 01 J	13/32	288-290				H 05 B	37/00					
477R	H 01 J	29/92		H 01 J	61/02	5.36-5.37	H 01 J	23/18		H 01 J	17/28					H 05 B	39/00					
478	H 01 J	29/89	617	H 01 J	17/30	5.38	H 01 J	23/02		H 01 J	19/74	291-311				H 05 B	41/14					
479	H 01 J	29/88		H 01 J	61/54	5.39-5.49	H 01 J	25/10		H 01 J	61/52					G 05 F	1/00					
480	H 01 J	29/86	618	H 01 J	17/06	5.51-5.54	H 01 J	23/20	119-128	H 05 B	37/00					H 05 B	37/02					
481	H 01 J	29/94		H 01 J	61/09	7	H 01 J	25/00		H 05 B	41/00					H 05 B	39/04					
482	H 01 J	29/82	619	H 01 J	17/00	8	H 01 J	29/06	129-136	H 01 J	1/60	312-325				H 05 B	41/36					
483-512	H 01 J	1/62		H 01 J	61/64	8.51	H 01 J	31/06		H 01 J	7/42					H 05 B	37/00					
	H 01 J	63/04	620-622	H 01 J	17/04		H 01 J	31/58		H 05 B	37/04	326-358				H 01 J	11/00					
513	A 01 K	7/00		H 01 J	61/04	8.61	H 01 J	31/60	137-148	H 05 B	41/16					H 05 B	41/00					
	H 01 J		623-625	H 01 J	17/18	9	H 01 J	29/98		H 05 B	41/24					H 01 J	11/10					
514-521	H 01 J	17/00		H 01 J	61/36	10	H 01 J	31/26	149-159	H 05 B	37/02					H 01 J	13/48					
522	H 01 J	19/00	626	H 01 J	17/02	11	H 01 J	31/48		H 05 B	39/04	360-361				H 05 B	39/04					
	H 01 J	21/00		H 01 J	61/02	11.5	G 09 G	1/28		H 05 B	41/36					H 01 K	13/00					
523-524	H 01 J	40/00	627-628	H 01 J	17/04		H 01 J	29/51	160-168	H 05 B	37/00					H 05 B	39/00					
	H 01 J	40/16		H 01 J	61/06	12.1	H 01 J	29/41		H 05 B	39/00	359				H 05 B	41/00					
525-530	H 01 J	31/50	629-630	H 01 J	17/06	13.1-13.11	H 01 J	29/56	169.1-169.4	G 09 G	3/10					H 05 B	37/00					
	H 01 J	40/18		H 01 J	61/06	14-16	H 01 J	29/46	170-177	H 05 B	37/00	360-361				H 05 B	39/00					
531	H 01 J	40/16	631-633	H 01 J	17/04		H 01 J	29/56		H 05 B	39/00					H 05 B	41/00					
532	H 01 J	43/04		H 01 J	61/04	17	H 01 J	29/70		H 05 B	39/00	362				H 05 B	37/02					
533	H 01 J	43/18	634	H 01 J	17/16	30	H 01 J	29/52	178-183	H 05 B	35/00					H 05 B	39/00					
534-535	H 01 J	43/20		H 01 J	61/30	32-33	H 01 J	13/46		H 05 B	37/00	360-361				H 05 B	37/02					
536	H 01 J	43/20	635	H 01 J	17/16		H 01 J	17/34		H 05 B	39/00					H 05 B	39/04					
	H 01 J	43/26		H 01 J	61/35		H 01 J	19/78	184-185	H 05 B	41/00					H 05 B	41/36					
537	H 01 J	40/00	636	H 01 J	17/16		H 01 J	23/16		H 05 B	37/00	362				H 05 B	37/02					
	H 01 J	40/16		H 01 J	61/30		H 01 J	29/96		H 05 B	39/00					H 05 B	39/06					
538	H 01 J	40/10	637	H 01 J	17/20		H 01 J	7/44		H 05 B	41/00					H 05 B	41/04					
539-540	H 01 J	40/00		H 01 J	61/12		H 01 K	1/62	185S	F 21 S	4/00	363				H 05 B	41/18					
	H 01 J	40/16	638	H 01 J	17/20	34	H 01 Q	1/26		H 05 B	37/00					H 05 B	37/00					
541	H 01 J	40/16		H 01 J	61/18	35-38	H 01 J	13/46		H 05 B	39/00	363				H 05 B	39/00					
542	H 01 J	40/06	639-642	H 01 J	17/20		H 01 J	17/34		H 05 B	41/00					H 05 B	41/00					
543	H 01 J	40/06		H 01 J	61/20		H 01 J	19/78	186-193	H 05 B	37/00	364				H 05 B	41/00					
	H 01 J	40/18	643	H 01 J	17/20		H 01 J	23/16		H 05 B	39/00					H 05 B	37/02					
544	H 01 J	40/06		H 01 J	61/16		H 01 J	29/96		H 05 B	41/00	365				H 05 B	37/02					
545-547	H 01 J	17/22					H 01 J	7/44	194-199	G 05 F	1/00					G 06 F	3/153					
	H 01 J	19/70	U.S. CLASS 314 ELECTRIC LAMP AND DISCHARGE DEVICES: CONSUMABLE ELECTRODES																			
	H 01 J	61/24				39	H 01 J	19/80		H 05 B	37/02					G 09 G	1/04					
	H 01 K	1/52					H 01 J	7/46	200A	H 05 B	39/04					G 09 G	1/22					
548	H 01 K	1/54				39.3	H 01 J	25/34		H 05 B	41/36	366-367				H 01 J	31/16					
549	H 01 J	17/24				39.51	H 01 J	25/50		H 05 B	37/00					G 09 G	1/04					
	H 01 J	19/70	1-6	H 05 B	41/46	39.53	H 01 J	23/36		H 05 B	39/09					H 01 J	29/72					
	H 01 J	61/26		H 05 B	41/14		H 01 J	25/50		H 05 B	41/14	368.11-368.13				H 01 J	29/72					
550-551	H 01 J	17/26	7-8	H 05 B	41/14	3																