

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 114--Con.																		
308-310	B 63 B	21/38	31	B 60 Q	1/42		G 01 D	11/00	54-67	C 30 B	19/00				B 05 B	7/16		
311	B 63 B	21/48	32	B 60 Q	9/00		G 01 D	13/00	68-72	C 30 B	21/02				B 05 C	5/00		
312-313	B 63 G	8/00	33	B 60 R	25/00		G 08 B			C 30 B	28/06	303-304			B 05 B	17/00		
314	B 63 C	11/00		B 62 H	5/20	202	F 21 S	10/00		C 30 B	7/00				B 05 C	5/00		
315	B 63 C	11/46	34A-34R	B 60 C	23/02	203	G 01 L	5/00	73-83	C 30 B	11/00	305			B 05 B	13/02		
316-320	B 63 G	8/28		B 60 C	23/06	204	G 01 D	5/12		C 30 B	17/00				B 05 C	5/00		
321	B 63 G	8/00	35A	B 60 Q	1/34	205	G 01 D	13/22		C 30 B	21/02	306			B 05 B	13/06		
322-325	B 63 G	8/41		B 60 Q	1/50	206-209	G 01 D	21/00		C 30 B	28/06				B 05 C	5/00		
326-329	B 63 G	8/40		B 62 J	6/20	210	B 64 B	1/40		C 30 B	9/00	307			B 05 B	13/02		
330-331	B 63 G	8/14	35R	B 60 Q	1/34	211	G 08 B	1/00	84-109	C 30 B	23/00				B 05 C	5/00		
332	B 63 G	8/18		B 60 Q	1/44	212	G 01 L	5/00		C 30 B	25/00	308-309			B 05 B	7/00		
333	B 63 G	8/22		G 08 B	5/02	213	G 03 B	17/00		C 30 B	28/12				B 05 C	19/00		
334	B 63 G	8/36	36	B 60 Q	1/26	214	G 08 B	5/40		C 30 B	28/14				B 05 C	5/00		
335-336	B 63 G	8/40	37-38	B 60 Q	1/54	215	B 08 B	5/00	200	C 30 B	35/00	310			B 05 B	7/26		
337-338	B 63 G	8/08	39-56	B 60 Q	1/26	216-220	G 01 K	1/02		C 30 B					B 05 C	5/00		
339	B 63 G	8/04	57	B 60 Q	1/52	221	G 01 K	5/00	201	C 30 B	13/28	311			B 05 B	7/06		
340	B 63 G	8/06			5/00	222-225	A 63 F	1/18		C 30 B	15/20				B 05 B	7/26		
341-342	B 63 G	8/38	62.1-62.4	G 01 P	5/00		A 63 F	7/22		C 30 B	15/26				B 05 C	5/00		
343	B 63 B	17/00	63C	E 01 F	9/012	226	A 63 F	9/00	202	C 30 B	13/28	312			B 05 B	7/00		
	B 63 B		63P	E 01 F	9/00	227	B 66 B	3/02		C 30 B	15/30				B 05 C	5/00		
	B 63 B		63R	E 01 F	9/00	228	G 01 F	23/00	203-204	C 30 B	11/00	313-316			B 05 B	7/06		
344	B 60 P	3/10		G 08 B		229	G 01 F	23/32		C 30 B	35/00				B 05 C	5/00		
	B 63 B	21/64	63T	G 09 F	13/16	230-233	B 23 Q	17/00		C 30 B		317-318			B 05 B	13/06		
	B 63 C	13/00	64	B 66 B	19/06	234-240	B 42 D	9/00		C 30 B		319			B 05 C	5/00		
345	B 63 B	7/00		B 66 B	3/00	241-263	H 03 J	1/00	205	C 30 B	35/00				B 05 B	13/02		
346	B 63 B	3/00	67A	G 08 B	21/00	264	G 01 F	15/00	206	C 30 B	11/00	320			B 05 C	5/00		
347	B 63 B	35/00	67R	G 08 B	3/00	265	G 01 P	5/00		C 30 B					B 05 B	13/04		
	B 63 B	35/71	68	B 66 B	19/06	266	G 01 P	3/00	207	C 30 B	11/10	321-322			B 05 C	5/00		
348	B 63 C	9/02		B 66 B	3/00	267-272	G 01 L	19/12	208-209	C 30 B	15/00				B 05 B	13/02		
349-350	B 63 C	9/06	69	G 01 W	1/14	273-275	G 01 F	15/00		C 30 B	21/06	323			B 05 C	3/00		
351	B 63 B	35/00	70	G 01 L	19/12	276	G 01 F	15/04		C 30 B	27/02				B 05 B	9/06		
352	B 63 B	7/04	71-74	G 08 B	21/00	277	F 16 K	37/00		C 30 B	28/10				B 05 C	5/00		
353-354	B 63 B	7/00	75	G 08 B	13/00	278	G 01 D	21/00		C 30 B	30/04	324-325			B 05 B	13/02		
355-356	B 63 B	3/00	76	G 08 B	13/08		G 09 F	9/00	210	C 30 B	15/00				B 05 C	5/00		
357	B 63 B	5/24	77-80	G 08 B	13/02	279	G 09 F	9/00		C 30 B	21/02	326			B 05 B	1/28		
358	B 63 B	5/02	81	G 08 B	13/12		H 01 H	9/16		C 30 B	27/02				B 05 B	15/04		
359	B 63 B	3/00	82-84	G 08 B	13/02	280	G 01 D	11/00		C 30 B	28/10				B 05 B	15/12		
	B 63 B	5/00	85-97	G 08 B	13/08	281-283	G 01 D	5/00		C 30 B	30/04				B 05 C	5/00		
360	B 63 B	43/02	98	G 08 B	13/10	284	G 01 D	13/00	211-218	C 30 B	15/00	400-403			B 05 C	3/00		
361-364	B 63 B	17/00	99	G 08 B	13/14		G 09 F	9/00		C 30 B	21/06	404-405			B 05 C	3/02		
361	B 63 B	17/02	100	G 08 B	21/00	285	G 01 D	11/00		C 30 B	27/02	406			B 05 C	3/00		
365	B 63 B	23/00	101-102	G 08 B	17/00	286-288	G 01 D	11/28		C 30 B	28/10	407-415			B 05 C	3/02		
366	B 63 B	23/38		G 08 B	17/04	289-290	G 01 D	11/00		C 30 B	30/04	416-418			B 05 C	3/00		
367	B 63 B	23/00	103	G 08 B	17/04	291	G 01 D	11/06	219-222	C 30 B	13/00	419-420			B 05 C	3/12		
	B 63 B	23/70	104-108	G 08 B	17/00	292	G 01 D	13/10		C 30 B	21/04	421-429			B 05 C	19/02		
	B 63 C	9/22		G 08 B	17/04	293	G 01 D	13/26		C 30 B	28/08				B 05 C	3/00		
368-372	B 63 B	23/02	109	G 01 F	23/00	294-295	G 01 D	11/16	223	C 30 B	11/00	500-503			B 05 C	13/00		
373	B 63 B	23/04	110-111	G 01 F	1/00	296	G 01 D	13/24		C 30 B					B 05 C	13/02		
374	B 63 B	23/18	112-113	G 08 B	21/00	297	G 01 D	11/16	224	B 01 J	3/04				B 05 C	21/00		
375-380	B 63 B	23/00	137A	G 01 K	5/02	298	G 01 D	13/12		C 30 B		504-505			B 05 C	11/11		
379	B 63 C	9/22	137R	B 06 B	3/00	299	G 01 D	13/08				506			B 05 C	11/00		
381	B 63 B	23/64		G 10 K	5/00	300-301	G 01 D	13/22	U.S. CLASS 118 COATING APPARATUS									
	B 63 B	23/66		G 10 K	9/00	302	G 01 D	13/00	13	A 01 J	27/02				B 27 K	3/15		
382	B 63 B	17/00		G 10 K	9/10	303	G 01 D	13/22		A 21 C	9/04	600-612			G 03 F	7/16		
	B 63 B	35/00	138	G 10 K	5/00	304	G 01 D	11/00		A 23 G	3/20	620			B 05 C	11/00		
	B 63 B	38/00		G 10 K	9/02	305	G 01 D	11/24		A 23 G	3/28				B 05 B	5/025		
U.S. CLASS 116 SIGNALS AND INDICATORS																		
1	A 01 K	15/02	139	G 10 K	5/00	306-324	G 09 F	9/00	14	A 23 G	3/20				B 05 C	5/00		
	G 08 B		140-141	G 10 K	5/00	325-326	G 08 B	5/00	15-17	A 23 G	3/20				B 05 C	9/08		
2	G 08 B	19/00	142FP	G 10 K	9/04	327-332	G 01 D	13/22	18	A 21 C	9/04	621			B 05 B	5/025		
3-5	G 08 B	7/00	142FV	G 10 K	9/02	333	G 01 D	11/08	19	A 23 G	3/26	622			B 05 C	5/02		
6-7	G 08 B	15/00		G 10 K	9/04	334-337	G 01 D	13/02	20-23	A 23 G	3/20				B 05 B	5/025		
8	E 05 B	45/00		G 10 K	9/04	U.S. CLASS 117 SINGLE-CRYSTAL, ORIENTED-CRYSTAL, AND EPITAXY GROWTH PROCESSES; NON-COATING APPARATUS THEREFOR									24-25	B 05 C	5/00	
	G 08 B	13/06	143-146	G 10 K	9/20	1	C 30 B	33/06	26-30	A 23 G	3/24	623-629			B 05 C	5/025		
	G 08 B	15/00		G 10 K	9/18	2	C 30 B		31	B 05 C	3/00				B 05 C	5/02		
9	E 05 B	45/00	147	G 10 K	9/20	3	H 01 L	21/322	31.5	B 41 K	1/00	630-638			B 05 B	5/025		
	G 08 B	13/08	148	G 10 K	7/00	4-10	C 30 B	15/14	32-47	B 05 C	11/00	639-643			B 05 B	5/00		
	G 08 B	15/00	149	G 10 K	1/36		C 30 B	1/00	50-50.1	C 23 C	14/00	663-714			B 05 C	11/00		
10	E 05 B	45/00	150	G 10 K	1/26		C 30 B	28/02	52-56	B 05 C	11/02	715-722			C 23 C	16/00		
	G 08 B	15/02		G 10 K	1/38		C 30 B	3/00		B 05 C	13/00	723AN-723DC			C 23 C	16/00		
11	E 05 B	45/04	151	G 10 K	1/068		C 30 B	5/00	57-70	B 05 C	11/00	723AN-723EB			C 23 C	16/50		
	G 08 B	15/00	152	G 10 K	1/06		C 30 B	11/00		B 05 C	13/02	723E			C 23 C	16/00		
12-14	G 08 B	15/00	153	G 10 K	1/00		C 30 B	21/322		B 05 C	13/00	723EB			C 23 C	16/00		
15	G 08 B	15/02	154	G 10 K	1/064</													

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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 119--Con.														
14.22-14.23	A 01 J	1/00	334-335	A 01 K	31/16	493	A 01 K	31/00	6A	F 23 M	5/08	72-74	F 22 B	9/08
14.24-14.26	A 01 J	5/02	334-337	A 01 K	31/10		F 24 F	7/00	6B	C 21 B	7/10		F 22 B	9/12
14.27-14.53	A 01 J	5/04	336-337	A 01 K	31/17		F 24 F	7/007	6C	F 27 D	1/02	72	F 02 B	33/20
14.28	A 01 J	5/14	338	A 01 K	31/00	494-495	A 01 K	31/02		F 27 D	1/12	73	F 02 B	33/04
14.54-14.55	A 01 J	5/00		A 01 K	39/00	496-497	A 01 K	1/00	7A	C 21 C	5/40	74	F 02 B	33/12
28.5	A 01 K	29/00	339-344	A 01 K	31/10	496-501	A 01 K	1/03	7B	F 22 B	1/18	75-78	F 22 B	9/06
50.7	A 01 K	45/00		A 01 K	31/14	500-509	A 01 K	1/02	7C	F 23 G	7/04	76	F 02 B	25/00
51.01-51.03	A 01 K	1/10	345	A 01 K	35/00	500	F 24 F	7/00	7D-7R	F 22 B	1/18	77	F 02 B	75/00
	A 01 K	39/00		A 01 K	43/10		F 24 F	7/007	7D	F 23 G	7/06	78	F 02 B	75/04
	A 01 K	5/00	346-347	A 01 K	31/14	502-503	A 01 K	3/00	7R	F 01 K	23/10	79-93	F 22 B	9/08
51.04	A 01 K	61/02	348	A 01 K	33/00	502	A 01 K	1/00		F 22 B	37/00		F 22 B	9/12
51.11-51.5	A 01 K	1/10		A 01 K	45/00	508	F 24 D	15/00	8-9	F 22 B	13/00	79	F 01 L	1/28
	A 01 K	39/00		A 01 M	17/00	510-514	F 24 D	3/12	10	F 22 B	31/00	80-81	F 01 L	7/00
	A 01 K	5/00	400-415	B 60 P	3/04	510	A 01 K	3/00	11	F 22 B	5/00	82-83	F 01 L	1/12
52.1-52.4	A 01 K	61/02	402	B 61 D	49/00	512-514	A 01 K	3/00	12	F 22 B	31/00	84-85	F 01 L	1/26
53-55	A 01 K	1/10	403	B 61 D	45/00	515	A 01 K	1/10	13.01	F 24 H	1/00	86	F 01 L	1/28
	A 01 K	39/00	404	B 61 D	17/20		A 01 K	5/00	13.3	F 24 H	1/48	87-89	F 01 L	1/12
	A 01 K	5/00	405	B 61 D	15/00		A 01 K	7/00		F 24 H	9/12	94.1	F 22 B	11/00
56.1-56.2	A 01 K	61/02	406	B 61 D	3/02	516	A 01 K	9/00	14.1-14.3	F 24 H	9/20	95.1-95.2	F 22 B	9/00
57	A 01 K	1/10	407	B 61 D	3/04	517	A 01 K	1/00	14.31	F 22 B	5/00	96-101	F 22 B	9/08
	A 01 K	39/00	408-415	B 61 D	49/00	518-519	A 01 K	1/00	15.1	F 24 D	17/00	102-105	F 22 B	11/00
	A 01 K	5/00	416	A 01 K	1/00	520	A 01 K	1/12	16.1	F 23 B	19/00	106-109	F 22 B	9/08
57.1-57.9	A 01 K	61/02	417-421	A 01 K	1/03	521	A 01 K	5/00		F 24 H	1/00	106-110	F 22 B	9/12
57.91-57.92	A 01 K	1/00	422	A 63 K	1/00	522-525	A 01 K	1/00	17.1-17.2	F 24 H	5/00	111-112	F 22 B	9/08
57.91-60	A 01 K	39/00	423-426	A 63 K	3/02	526	A 01 K	7/00	17.2	F 23 C	5/00	113	F 22 B	11/00
	A 01 K	5/00	423	A 63 K	1/02	527-530	A 01 K	1/01		F 24 H	1/20	114-120	F 22 B	9/02
58-60	A 01 K	1/10	427-435	A 01 K	31/00	528	A 01 K	1/00	18.1-18.4	F 24 H	1/00	121-122	F 22 B	9/06
61.1-61.57	A 01 K	5/01	427	A 01 K	1/08	531-537	A 01 K	31/12	18.5	F 24 H	1/48	123-129	F 22 B	9/02
61.1-69	A 01 K	1/10		A 01 K	31/08	600-633	A 01 K	13/00	19.1	F 24 H	9/00	130-134	F 22 B	11/00
	A 01 K	39/00	431	A 01 K	1/00	650-678	A 01 K	29/00	19.2	F 24 H	9/02	135.1-137	F 22 B	31/02
	A 01 K	5/00	436	A 01 K	1/00	700	A 01 D	15/00	20A	F 24 D	3/08	136C	F 22 B	9/08
69.5	A 01 K	45/00	437-441	A 01 K	31/18	701-706	A 01 K	15/02		F 24 H	1/48		F 24 H	9/00
70	A 01 K	1/10	442-443	A 01 K	31/04	707-711	A 01 K	29/00	20B	F 28 D	21/00	138	F 22 B	7/04
	A 01 K	39/00	444-447	A 01 K	1/02	712-717	A 01 K	37/00	20R	F 22 B	5/00	139	F 22 B	7/00
	A 01 K	5/00	447	A 01 K	1/01	718-720	A 01 K	15/02		F 24 H	1/18	140.1-141	F 22 B	7/04
71	A 01 K	9/00	448	A 01 K	1/00	722-727	A 61 D	3/00	21	F 22 B	69/06	142	F 22 B	7/12
72-81	A 01 K	7/00		F 24 F	1/00	769	A 01 K	27/00		F 22 B	1/00	143-144	F 22 B	7/04
161-174	A 01 K	29/00		F 24 F	7/007	770-771	B 60 R	22/00	22	F 02 B	41/00	143	F 02 P	23/00
200-202	A 01 K	61/00	449	A 01 K	1/10	772-779	A 01 K	1/08		F 22 B	31/04	144	F 02 P	21/00
201-203	A 01 K	63/02		A 01 K	39/00	780-782	A 01 K	1/04	23-24	F 22 B	31/00	145-146	F 22 B	19/00
204-223	A 01 K	61/00		A 01 K	5/00		A 01 K	3/00	23	F 02 B	45/00	145-147	F 22 B	7/06
209	A 01 K	29/00	450-451	A 01 K	1/01	783-785	A 01 K	1/06	24	F 02 B	45/06	145	F 02 B	9/08
224-225	A 01 K	63/00	452	A 01 K	1/03	784-787	A 01 K	3/00	25	F 02 B	47/00	147	F 02 P	15/00
226-227	A 01 K	63/04		A 01 K	31/06	786-791	A 01 K	1/04	26	F 02 B	41/00	148	F 22 B	7/00
228	A 01 K	63/00	453	A 01 K	31/07	789	B 65 H	75/34		F 22 B	3/06	149-151	F 22 B	7/12
229	A 01 K	63/06	454	A 01 K	39/01	792-799	A 01 K	27/00		F 28 C	3/00	149	F 02 P	1/00
230-231	A 01 K	61/00		A 01 K	39/02	794	B 65 H	75/34	27-28	F 22 B	1/02	150-151	F 22 B	7/04
231-232	A 01 K	63/04		A 01 K	5/00	796	B 65 H	75/34	29	F 02 B	3/00	150-152	F 02 P	13/00
233	A 01 K	63/00	455	A 01 K	1/02	800-837	A 01 K	15/04	27-28	F 22 B	1/02	152	F 22 B	7/16
234-244	A 01 K	61/00		A 01 K	31/06	809-813	A 01 K	13/00	29-30	F 22 B	13/00	153-154	F 02 P	15/00
245-258	A 01 K	63/00	456	A 01 K	39/01	838	A 01 K	21/00	31.1-34	F 22 B	1/02	155-163	F 22 B	7/00
246	A 01 G	9/02		A 01 K	39/04	839	A 01 K	15/02		F 22 B	1/26	156-161	F 02 P	15/00
259-264	A 01 K	63/04		A 01 K	5/00	840-849	A 01 K	29/00	35	F 22 B	37/22	162	F 02 P	15/04
265	A 01 K	63/00	457	A 01 K	39/012	843	B 65 G	11/00	36	F 22 B	1/14	163	F 02 P	15/00
266-267	A 01 K	63/06		A 01 K	5/02	844	B 65 G	7/06	37-38	F 22 B	33/02	164	F 02 P	5/00
268	A 01 K	63/04	458	A 01 K	1/01	845-846	B 65 G	15/00	39-41	F 02 B	75/00		F 22 B	7/18
269	A 01 K	63/00	459-460	A 01 K	31/06	847-849	B 65 G	69/28	41	F 01 L	13/02	165	F 22 B	7/00
270	A 01 K	67/04	461	A 01 K	31/08	850-853	A 01 K	13/00		F 01 L	29/00	166.1-175	F 22 B	7/04
300-301	A 01 K	41/00	462-463	A 01 K	31/06	854	A 01 K	21/00		F 02 D	27/00	167	F 22 B	9/00
300-302	A 01 K	31/19	464	A 01 K	39/00	855	A 01 K	13/00	42-43	F 22 B	11/00		F 23 D	14/00
303-310	A 01 K	31/20	465-466	A 01 K	39/01	856	A 01 K	27/00		F 02 B	59/00	169	F 02 P	1/00
303	F 24 D	1/00	467	A 01 K	31/06	857-860	A 62 B	35/00	44.1-49	F 22 B	9/00	176-177	F 22 B	7/06
	F 24 D	3/00	468	A 01 K	31/12	857	B 60 R	22/00	45	F 02 B	53/00	178-180	F 22 B	7/14
	F 24 H	1/14	469-470	A 01 K	31/06	862-865	B 60 R	22/12	46	F 02 B	71/00	181	F 22 B	7/04
304-307	F 24 H	3/02	471	A 01 K	31/04	866	A 62 B	35/00		F 02 B	39/10	182.1-182.3	F 22 B	7/12
305-307	F 24 D	5/00	472-474	A 01 K	1/02	867-869	A 01 K	15/04	47	F 01 L	11/00	182.1	F 01 L	13/08
308-309	F 24 D	13/00		A 01 K	1/03		A 01 K	23/00	48	F 02 B	75/04	183-186	F 22 B	7/04
	H 05 B	3/00		A 01 K	31/06					F 02 B	75/36	187	F 22 B	7/12
	H 05 B	3/62	475	A 01 K	39/00					F 02 B	59/08	188-189	F 22 B	5/00
310	F 24 D	15/00		A 01 K	5/00					F 02 B	9/08	189	F 01 L	3/00
	F 24 J	3/00		A 01 K	7/00					F 22 B	9/12	190	F 22 B	5/02
311	A 01 K	41/00	476	A 01 K	39/012					F 02 B	59/00	191-193	F 22 B	5/00
312-313	F 24 D	1/00		A 01 K	5/02					F 02 B	25/08	194-207	F 22 B	5/02
	F 24 H	1/00		A 01 K	7/02					F 02 B	25/10	195	F 02 F	7/00
312-321	A 01 K	41/02	477-478	A 01 K	39/01					F 02 B	75/28	196	F 01 M	1/00
312	F 24 D	3/00		A 01 K	5/00					F 22 B	11/00	198	F 02 B	77/00
314	A 01 K	41/04	477	A 01 K	7/00					F 22 B	9/08	200-201	F 02 B	53/00
315-317	F 24 H	3/02	478	A 01 K	1/10					F 02 B	75/16	202		