

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1918

NOVEMBER 6, 2012

PROJECT E-7196

**The following classification changes will be effected by this order:**

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	<u>Ex'r Search Room</u>
<b>Abolished:</b>	362	23-30	2875	OS0001
<b>Established:</b>	362	23.01-23.09, 23.1, 23.11-23.19, 23.2, 23.21, 23.22	2875	OS0001

**The following class is also impacted by this order:**

73, 116, 324, 334, 340, 359, 368, 374, 379

**This order includes the following:**

- A. CLASSIFICATION MANUAL CHANGES
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES
- C. CHANGES TO THE USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1918

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1	<b>DAYLIGHT LIGHTING</b>	23.22	.Including rotary knob
2	.Including selected wavelength modifier (e.g., filter)	600	<b>EDGE LIGHTED PANEL</b>
3	<b>PHOTOGRAPHIC LIGHTING</b>	601	.Having additional panel emitting multiple wavelength light
4	.Light responsive	602	.Particular application
5	.Measuring or indicating	603	..Front light
6	.Heat responsive or control	604	..Exhibit
7	.Convertible	605	..Ornamental or decorative
8	.Combined	606	.Light modifier with emission face combined with light guide plate
9	..With battery support means	607	..Combination of two or more modifiers
10	.Safety or interlocks	608	.Light modifier for edge lit light source (incident edge)
11	.Plural light sources or light source supports	609	..Reflector
12	..Diverse type or size	610	..Optical waveguide
13	..Lamp substitution or selection	611	.Light source
14	...Indexing (i.e., dynamic)	612	..Light emitting diode (LED)
15	...With electrical ignition	613	..Plural
16	.Including specific light modifier	614	..Fluorescent
17	..Plural diverse	615	.Light guide
18	..Selective or adjustable	616	..Plural or compound
19	<b>WITH POLARIZER</b>	617	..Emission face
20	<b>AUTOMATIC SUBSTITUTION OF POWER SUPPLY OR LIGHT SOURCE</b>	618	...Film or coating
21	<b>WITH FILAMENT CONTROL MEANS RESPONSIVE TO FRACTURE OF LIGHT SOURCE ENVELOPE OR ENCLOSURE</b>	619	...Type of surface
22	.Fluid or pressure responsive	620	....Prism
23.01	<b>ILLUMINATED INDICATOR (I.E., SCALE OR DIAL OR INPUT DEVICE)</b>	621	..Incident face
23.02	.Light sensor	622	...Film or coating
23.03	.Keyboard	623	..Reflective face
23.04	.Switch	624	...Film or coating
23.05	..Pushbutton	625	...Type of surface
23.06	.Manual telephone input device (i.e., dial)	626	....Prism
23.07	.Having light emitting diode	627	..Film or coating
23.08	..Multicolor	628	..Shape
23.09	..Edge illuminated modifier or light rod/pipe	629	..Material
23.1	...Plural light sources	630	.Electrical wiring elements
23.11	..Illuminated through meter case	631	..Circuit board
23.12	..Internal light source	632	.Housing
23.13	...Indirect illumination	633	..Frame
23.14	.Including reflector	634	..Holder
23.15	.Radiator water temperature meter	551	<b>LIGHT FIBER, ROD, OR PIPE</b>
23.16	.Edge illuminated modifier or light rod/pipe	552	.With intensity control
23.17	..Plural light sources	553	.Laser
23.18	.Illuminated through meter case	554	.With optical fiber bundle
23.19	.Internal light source	555	..Including specific fiber structure
23.2	..Indirect illumination	555	.Light emitting diode (LED)
23.21	.Pointer type	583	.With filter device
		557	.Nonelectric power source
		558	.Diffuser or diffusing of incident light (e.g., optical coupler)

559	.Illuminating or display apparatus (e.g., sign, runway light, channel marker)	39	.Pivoted lamps having plural unlike motions controlled additionally by manual movement
560	..With reflective surface (e.g., mirror)	40	.Manual or steering mechanism control of pivoted lamp
561	..Including liquid crystal display (i.e., LCD)	41	.Plural lamps, one only moves in turn direction
562	.With gas or liquid container	42	.Tire, wheel or brake backing plate movement turns lamp
563	.Horticultural	43	.Plural lamps concurrently moved
564	..Tree	44	..Single connection to steering mechanism or element
570	.With wearing apparel or body support	45	...First lamp motion moves second lamp
571	..Jewelry	46	....Steering post arm or rod motion controls first lamp
565	.Ornamental or decorative	47	....Through link and lever transmission means
566	..With star or cross	48	....Tie rod motion controls first lamp motion
567	..Tree- or plant-like (e.g., tree simulation)	49	...Steering post, arm rod motion controls lamps
568	...Christmas tree	50	....Through link and lever transmission means
569	..Filament lamp simulating candle	51	...Tie rod motion control
572	.Medical (e.g., surgical or dental)	52	..Tie rod motion control
573	..Dental lighting fixture	53	.Steering post, arm or rod controlled
574	..Endoscopy	54	..Through link and lever motion transmission
575	..Microscopic diagnosis	55	.Stub shaft, stub shaft arm or attachment element controlled
576	.With static structure (e.g., building interior, framework of tent, wall, ceiling)	56	..Through telescopic motion transmission means
577	.With portable hand-held implement (e.g., cane, baton, umbrella, club)	57	.Tie rod element controlled
578	..Workpiece illuminating screwdriver	58	..With manual disconnect
579	..Writing utensil (e.g., pen, pencil)	59	..Through link and lever motion transmission means
580	.With ventilating or cooling or thermally controlled light guide	60	...With pin and slot motion transmission means
581	.With mounting or holding means (e.g., clamp, disengageable mechanical connector, optical fiber holder)	459	<b>SUPPORTED BY VEHICLE STRUCTURE (E.G., ESPECIALLY ADAPTED FOR VEHICLE)</b>
582	.Specific material (e.g., type of light conducting material, material of pipe or rod)	460	.Including headlamp beam measuring or indicating (e.g., headlamp beam leveling, aiming, inclination detecting)
33	<b>WORK-TABLE LIGHTING SYSTEM</b>	461	..Plumb or level having liquid-type bubble
34	<b>CHEMILUMINESCENT LIGHTING</b>	462	...Including indicia mark (e.g., calibrated rod)
35	<b>REVOLVING</b>	463	..Including indicia mark (e.g., calibrated rod)
36	<b>VEHICLES STEERING SWITCHES LIGHT SOURCES</b>		
37	<b>VEHICLE STEERING MECHANISM OR ELEMENT MOVES PIVOTED LAMP OR LAMP SUPPORT</b>		
38	.Through fluid pressure control		

464	.Condition responsive (e.g., position)	509	.Light modifier
465	..Automatically adjusted headlamp beam	510	..Including selected wavelength modifier
466	...Computer controlled	511	..Optical waveguide (e.g., fiber optic, edge-lit)
469	...Weight biased or mechanically actuated	512	..Adjustable or positionable
467	...Electromagnetically, electro-dynamically, or electronically actuated	513	...Electric or fluid-pressure actuated
468	...Hydraulically or pneumatically actuated	514	...Reflector
470	.Aircraft	515	...Having ball and socket mechanism
471	..Interior (e.g., instrument, cockpit)	516	..Reflector structure
472	..Having retractable lamp	517	...Plural separate reflectors with complex surfaces
473	..Bicycle or motorcycle	518	...Plural separate sections with complex surfaces
474	..Handlebar	519	...With bulb mounting means
475	..Headlight	520	..Refractor structure
476	..Headlight support	521	...Plural separate refractors
477	..Marine	522	...Plural separate sections with complex surfaces
478	..Bus or railway rolling stock	523	.Adjustable lamp or lamp support
479	..Roof or ceiling	524	..Gear driven
480	..Ventilation casing or fixture	525	..Plural headlight supports concurrently operated
481	..Threshold illumination	526	..Electromagnetic or fluid-pressure actuated
482	..Dashboard	527	...Retractable headlight
483	..Seat	528	..Having ball and socket mechanism
484	..Baggage rack	529	..Manually operable (e.g., remote manual actuation)
485	..Truck, trailer, or wagon	530	...Plural or diverse motion
486	..Portable	531	...Horizontal motion
487	..Automobile	532	...Vertical motion
488	..Interior	534	..Railway truck actuated
489	...Dashboard	535	...Cable, chain, or spring actuated
490	...Ceiling	536	...Gear actuated
491	...Gearshift	537	...Lever or link actuated
492	...Sun visor or vanity mirror	538	.Projection-type headlamp
493	..Roof	539	..Including mask or screen
494	..Rear view mirror	540	.Visual identification light
495	..Running board	541	..Brake
496	..Hood, grill, or trunk	542	..Emergency
497	..License plate	543	.Plural light sources
498	...Turn signal indicator	544	..With common housing
499	...Including brake or emergency	545	...Including light emitting diode
500	..Wheel spindle, axle, or hub cap	546	.Housing
501	..Door or door handle	547	..With cooling or ventilating feature
502	..Radiator	548	..Including specific light bulb mounting
503	..Windshield or window		
504	...Including adjustable lamp support		
505	..Bumper or bumper guard		
506	..Fender		
507	...Headlight		
508	.Adjustable source (e.g., bulb filament)		

549	.Specific lamp mounting or retaining	125	<b>WITH SHOWCASE OR SHOW WINDOW</b>
84	<b>LIGHT SOURCE OR LIGHT SOURCE SUPPORT AND LUMINESCENT MATERIAL</b>	126	.Heat insulation or dissipation type
85	<b>WITH CONTROL CONSOLE</b>	127	<b>WITH FURNITURE</b>
86	<b>SOUND EQUIPMENT ILLUMINATOR</b>	128	.With viewing mirror
87	.Phonograph	129	..Adjustable
88	.Telephone	130	.Bed
89	<b>MACHINERY LIGHTING</b>	131	.Chair, stool or sofa
90	.Sewing	132	.Plural diverse type article holders (e.g., drawer and hook)
91	.Cleaning	133	.Cabinet
92	<b>WITH HEATER OR REFRIGERATOR</b>	134	.Base
93	.Nonelectric illuminator	135	<b>WITH VIEWING MIRROR</b>
94	.With door-controlled switch	136	.With vanity case
95	<b>WITH SWITCH PLATE OR SOCKET</b>	137	..With closure light source control
96	<b>WITH FLUID DISTRIBUTER</b>	138	.Inspection type
97.1	<b>DISPLAY BACKLIGHT</b>	139	..Adjustable
97.2	.LCD backlight	140	.With plural light sources or diverse light modifiers
97.3	..Having solid-state light source	141	..Adjustable
97.4	.With transparency or film holder	142	.Adjustable
98	<b>WITH PAPER, BOOK OR COPY HOLDER</b>	143	..Janus-faced mirror-and-light projector
99	.Notepad	144	..Repositionable as a unit
100	<b>DOOR KNOB OR KEYHOLE ILLUMINATOR</b>	145	<b>WITH STATIC STRUCTURE</b>
101	<b>WITH LIQUID CONTAINER</b>	146	.Staircase
102	<b>WITH CANE, BATON, UMBRELLA OR CLUB</b>	147	.Wall or ceiling
103	<b>WITH WEARING APPAREL OR BODY SUPPORT</b>	148	..Subceiling
104	.Jewelry	149	...With fluid handling means
105	.Head covering or clamp	150	...Common subceiling and light unit support
106	..Hat	151	.Valence or cornice
107	...Nonelectric light unit	152	.With border, fence, gate or awning
108	.Shoulder suspension or torso encircling (e.g., vest, neck-sling)	153	.Floor
109	<b>WITH IMPLEMENT OR HAND HELD HOLDER THEREFOR</b>	153.1	.Pavement
110	.Firearm	154	<b>WITH CONTAINER</b>
111	..Convertible to light gun	155	.With closure controlled switch
112	..Imitation firearm	156	.Bag, purse or trunk
113	..Light controlled by trigger	157	<b>SELF POWERED LAMP</b>
114	..Switch on handle	158	.With hermetic seal
115	.Barber	159	.Nonelectric
116	.Key holder	160	..Acetylene
117	.Iron	161	..Candle type
118	.Pen or pencil	162	...Collapsible housing
119	.Hand tool (e.g., knife, drill)	163	...With chimney
120	..Elongate type	164	..Miner's safety type
121	<b>WITH STAR OR CROSS</b>	165	...With lock
122	<b>WITH PLANT-LIKE ORNAMENT OR WREATH</b>	166	..Selective wavelength transmitting or light blocking means
123	.Tree		
124	<b>WITH SIMULATED ANIMAL</b>		

167	...With separate movable selective elements	203	..Bulb or battery physically moved to join mating contacts of each other
168	....Plural	204	..Insulated casing with switch between fixed conductors
169	...Plural lenses	205	..With switch
170	....Rotatable type	206	...At end opposite bulb
171	..Tubular type	207	.Spare bulb carrier
172	...Base structure	208	.Flashlight elements
173	...Dome structure	209	<b>PLURAL NONELECTRIC LIGHT SOURCES</b>
174	...Relatively movable modifier	210	<b>PLURAL CARBON ARC-TYPE LIGHT SOURCES</b>
175	....Compound motion	211	<b>MULTIPLE FILAMENT LIGHT UNIT</b>
176	....Rectilinear motion	212	.With electrical switching means
177	....Pivoted motion	213	.Relatively movable light source or modifier
178	..Tube structure	214	.With mask or screen for at least one filament
179	..Mantle type	215	.With corrugated, faceted or fluted reflector and/or lens
180	..Chimney type	216	<b>CURVILINEAR LIGHT SOURCE</b>
181	..Base structure	217.01	<b>ELONGATED SOURCE LIGHT UNIT OR SUPPORT</b>
182	..Dome structure	218	.With ventilating or cooling means
183	.Rechargeable electrical source of with external connections	219	.With means to position plural light sources colinearly
184	.Having plural lamp bulbs or lamp sockets	220	.Repositionable
185	..With a protective cage	221	.With means to accommodate additional circuit element
186	.Dome, globe or wire guard or lamp bulb cover	222	..With or including transparent or translucent member
187	.With movable focusing element	223	.With or including transparent or translucent member
188	..Movable lamp bulb or lamp bulb support	224	..Plural members
189	.Disposable lamp or flexible material casing	225	.Plural sources or supports therefor
190	.With support	217.02	.With light modifier
191	..With or comprising mounting means	217.03	..Louvered or grid-type modifier
192	.Generator power source	217.04	...Including curved modifying surface
193	..Friction driven generator	217.05	..Including reflector
194	.Battery supported separable lamp assembly	217.06	...Parabolic
195	..Battery terminal sole support of lamp	217.07	...Concave
196	.Mating-halves type flashlight casing	217.08	..Fluorescent
197	.Lamp bulb or lamp support axis adjustable or angularly fixed relative to axis of flashlight casing	217.09	...Plural
198	..Flexibly or extensibly mounted lamp bulb or lamp support	217.1	.Housing
199	..Separate lamp housing or lamp support pivoted to flashlight casing	217.11	..Frame
200	.Flat flashlight casing	217.12	..With or comprising mounting means
201	..Lamp terminal directly contacts a battery terminal	217.13	..With or comprising connecting means
202	.Cylindrical flashlight casing	217.14	.Support
		217.15	..Frame

217.16	..With or comprising mounting means	249.05	...With switch
217.17	..With or comprising connecting means	249.06	...Particular arrangement (e.g., flower, star, light string, etc.)
640	<b>QUICK DISCONNECT-TYPE LIGHT UNIT</b>	249.07	..Adjustable
641	.Night light	249.08	...Flexible
642	..Sensor	249.09	...Having plural diverse motions (e.g., extensible and collapsible, etc.)
643	..Air freshener	249.1	...Pivoted lamp or lamp support
644	..Ornamental or decorative	249.11	...With mounting means
645	..With sealing	249.12	..With switch
646	.Circuit board	249.13	...Plural
647	.Particular engagement	249.14	..Particular arrangement (e.g., flower, star, light string, etc.)
648	..Track lighting	249.15	...Net-type arrangement
649	..Turn to engage	249.16	...Ornamental or decorative
650	...Threaded (e.g., Edison type)	249.17	...With star or cross
651	...Bayonet type	249.18	...Tree- or plant-like (e.g., tree simulation, etc.)
652	..Push to engage	249.19	....Christmas tree
653	...Ornamental or decorative	253	<b>COMBINED</b>
654	...Christmas light	254	<b>LIGHT SOURCE SUBSTITUTION</b>
655	...Locking	255	<b>MODIFIER MOUNTABLE ON LIGHT SOURCE ENVELOPE</b>
656	....Snap means	256	.With additional modifier
657	...Male contact	257	<b>LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER</b>
658	...Exposed contacts	258	.With extensible electric cord storage member
659	....Parallel contacts	259	.Laser type
227	<b>PLURAL LIGHT SOURCES</b>	260	.Fluorescent type
228	.Diverse light generators	261	.Carbon arc type
229	..Gas and electric	262	..With electrode feed means
230	.Particular wavelength	263	.Ionized gas or vapor light source
231	..Different wavelengths	264	..Including cooling means
232	.Source and modifier mounted for relative movement	265	..Including circuit arrangement
233	.Remote adjustment or positioning means	266	.Nonelectric type
234	.Combined	267	.With sealing means or artificial atmosphere
235	.With modifier	268	.Plural serial lens elements or components
236	..Distinct light units	269	.Tiltable or rotatable as a unit
237	...Substantially identical modifiers	270	..With linear repositioning means
238	....Positioning means for plural units	271	..With actuator
239	....Relative adjustment means	272	...Electric or pneumatic
240	....Units have common housing	273	...Screw actuator
241	....Reflector type modifiers	274	...Resiliently biased
242	...Diverse modifiers	275	..Plural axes
243	....Including reflector	276	.Condition responsive
244	...Refractor type modifier	277	.Adjustable or repositionable modifier
245	....With reflector		
246	....Diffusing type		
247	...Reflector type modifier		
248	...Shielding type modifier		
249.01	.With support		
249.02	..Having light-emitting diode		
249.03	...Adjustable		
249.04	....Flexible		

278	..Flexible modifier	296.05	..Having a particular shape
279	..Louvered or grid type modifier movable as a unit	296.06	...Elliptical
280	..In plane, or extension of modifying surface	296.07	...Concave
281	...Plural, relatively movable	296.08	...Parabolic
282	..Angularly adjustable or repositionable	296.09	..Mirror
283	...Plural, relatively movable	296.1	..Collimating
284	...With actuator	311.01	.Including translucent or transparent modifier
285	.Adjustable or repositionable light source or light source support	311.02	..Having light-emitting diode
286	..Electromagnetic actuator	311.03	..Having a particular material
287	..Angularly adjustable or repositionable	311.04	...Plastic
288	..Resiliently biased	311.05	...Glass
289	..Screw actuated	311.06	..Having a particular shape
290	..Louvered or grid type modifier	311.07	...Parabolic
291	..Including curved modifying surface	311.08	...Elliptical
292	..Including nonparallel modifying surfaces	311.09	...Concave
293	.Including selected wavelength modifier (e.g., filter)	311.1	...Convex
294	.With ventilating, cooling or heat insulating means	311.11	..Mirror
295	.With rheostat or switch	311.12	..Collimating
296.01	.Including reflector	311.13	..Ornamental or decorative
297	..With or including plural, distinct reflecting surfaces	311.14	..Cover
298	...Opposed	311.15	..Molded
299	...With or including refractor	312	<b>LIGHT PERVIOUS CHIMNEYS OR ACCESSORIES THEREFOR</b>
300	...With or including translucent or transparent modifier	313	.Attachments
301	...With or including planar reflecting surface	314	.Chimney support or holder
302	...With or including coaxial reflecting surfaces	315	.Composite
303	....With or including means blocking axial rays	316	.Modified base
304	..Coaxial	317	<b>LIGHT MODIFIER</b>
305	...With or including means modifying axial rays	318	.Fluid medium type
306	..With resilient means to position source or modifier	319	.Adjustable or positionable
307	..With or including translucent or transparent modifier	320	..Flexible
308	...Refractor	321	..Shutter type
309	...With complex surface	322	..Angularly
310	..Enclosed light source	323	...In plane or modifier surface
296.02	..Having a particular material	324	...With actuator
296.03	...Glass	325	...Louvered or grid type
296.04	...Metal	326	.Refractor
		327	..With reflector
		328	...Reflector separate from refractor
		329	...Enclosure type
		330	..Panel type
		331	..Plural serial refractors
		332	..Separate sections
		333	..With plural elements on both sides of main surface
		334	...Curved main surface
		335	..Curved lens type
		336	...Including diverse refracting elements on one surface
		337	....Prismatic type
		338	...Plural elements on a curved surface

339	..Prismatic type	385	.Fluid pressure controls movable light support
340	...Curved main surface	386	.Electromagnetic operator controls movable light support
341	.Reflector	387	.With flexible power-cord storage member
342	..Louvered or grid type	388	.Convertible support
343	..With diverse modifier	389	.Antislipping
344	..With guard means	390	.Shock absorbing
345	..With ventilating or cooling	391	.Line-wire or cable-attaching support
346	..Plural separate reflectors or separate sections	392	.Imitation candle support
347	..Curved surface	393	..Adjustable
348	...Patterned surface	394	.Special switch operator
349	...Including straight surface	395	..With standard (e.g., table and floor lamps)
350	...Bowl shaped main surface	396	.Clamp or hook
351	.Translucent or opaque (e.g., shade)	397	.Suction cup
352	..Collapsible or folding	398	.Magnetic
353	..Including socket engaging means	399	.Handle or bail
354	..Louvered or grid type	400	..With means for receiving guard
355	..Diffusing type	401	.Counterbalanced support
356	..Hollow body open at both sides	402	..Spring counterbalance
357	...Including cloth covering	403	.Support having gravity-type light source or light modifier raising and lowering means
358	..Wire frame type	404	.Ceiling-suspended support
359	..External hood or visor	405	..Body member with plural radial arms (e.g., chandelier)
360	..Plural sections	406	...With mounting means
361	..Curved surface	407	..Cord-supported light source with light source directing means
362	<b>HOUSING</b>	408	..With light modifier holder
363	.Transparent globe type	409	..Nonelectric
364	.Recessed	410	.Standard-type support (e.g., table or floor lamp)
365	..With mounting means	411	..With electrical regulating means
366	...With adjustment for panel dimensions or slope	412	..Vase-type standard
367	.Frame with multiple light-transmitting panels	413	..Adjustable standard
368	..With mounting means	414	..With light source support mounted at top end of standard
369	..Shock absorbing	415	..Nonelectric
370	..Arm or bracket	416	.Arc lamp hanger
371	...Adjustable movement between arm and housing	417	.Harp type support
372	..With adjustable light source	418	.Adjustable light support
373	..With cooling means	419	..Having plural diverse motions
374	..With closure fastener	420	...Plural headlight supports concurrently operated
375	..With closure	421	...With ball and socket light support
376	<b>GUARD MEANS</b>	422	...With coaxial motion transmission members
377	.Bulb engaging		
378	.Socket engaging		
379	<b>SMOKE BELLS</b>		
380	<b>SPARK ARRESTERS</b>		
381	<b>GAS TAPS</b>		
382	<b>SUPPORTS</b>		
383	.Object sound or sighting controls movable light support		
384	.Moving mass control movable light support		

423 ...With plural pairs of gears transmitting motion through internal member

424 ...Internal coaxial member having straight line motion

425 ...Single reciprocating and turning member transmits plural different motions to the adjustable support

426 ...Fork support

427 ..Pivoted lamp or lamp support

428 ..With operating means to move lamp or lamp support

429 ..Adjustable socket holder

430 ..With mounting means

431 ..Pole or post type support

432 ..Wall type arm or bracket support

433 ..Modifier support

434 ..Double-ring frame

435 ...Socket extension

436 ...Clamping jaws

437 ..Socket covers

438 ..Clamping jaws

439 ..With mounting means

440 ..Spring ring

441 ..Base

442 ...Spider

443 ..Removable socket collar

444 ..Spring frame or bulb

445 ..Spring frame on body of chimney

446 ..Side

447 ..On candle

448 ..With socket or shell

449 ..Adjustable

450 ..Collapsible

451 ..Drop

452 ..Interior arms and ring crown engaged

453 ..Inverted-bowl suspension devices

454 ...Combined with support

455 ..Lens holder or support

456 ...Perforated plate

457 **MISCELLANEOUS ATTACHMENTS AND FITTINGS**

458 **MISCELLANEOUS**

**CROSS-REFERENCE ART COLLECTIONS**

800 **LIGHT EMITTING DIODE**

801 **BEDROOM LIGHTING (E.G., MODULAR COMBINATIONS)**

802 **POSITION OR CONDITION RESPONSIVE SWITCH**

803 **PHOTO SAFE LAMP**

804 **SURGICAL OR DENTAL SPOTLIGHT**

805 **HORTICULTURAL**

806 **ORNAMENTAL OR DECORATIVE**

807 .Star

808 .Figure

809 ..Terrestrial globe

810 .Imitation candle

811 .Psychedelic lighting

812 **SIGNS**

**FOREIGN ART COLLECTIONS****FOR 000 CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or nonpatent literature from subclasses that have been reclassified have been transferred directly to the FOR Collections listed below. These Collections contain ONLY foreign patents or nonpatent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 **EDGE LIGHTED PANEL (362/31)**

FOR 101 **QUICK DISCONNECT TYPE LIGHT UNIT (362/226)**

FOR 102 **LIGHT TABLE-TYPE ILLUMINATOR (362/97)**

FOR 103 **ELONGATED SOURCE LIGHT UNIT OR SUPPORT (362/217)**

**PLURAL LIGHT SOURCES (362/227)**

FOR 104 .With support (362/249)

FOR 105 ..Adjustable (362/250)

FOR 106 ..With switch (362/251)

FOR 107 ..Particular arrangement (e.g., ornamental star) (362/252)

**LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER (362/257)**

FOR 108 .Including reflector (362/296)

FOR 109 .Including translucent or transparent modifier (362/311)

FOR 110 **ILLUMINATED SCALE OR DIAL (362/23)**

FOR 111 .Telephone dial (362/24)

FOR 112 .Radiator water temperature meter (362/25)

- FOR 113 .Edge illuminated modifier or  
light rod/pipe (362/26)
- FOR 114 ..Plural light sources (362/27)
- FOR 115 .Illuminated through meter case  
(362/28)
- FOR 116 .Internal light source (362/29)
- FOR 117 ..Indirect illumination (362/30)

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SOURCE CLASSIFICATION(S) OF PATENTS  
IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
362/23.01	2	362/26	184
	2	362/27	88
	96	362/23	207
362/23.02	1	362/27	88
	3	362/23	207
362/23.03	2	362/24	49
	4	362/26	184
	4	362/29	125
	4	362/30	83
	5	362/23	207
362/23.04	1	362/29	125
	1	362/30	83
	3	362/26	184
	3	362/27	88
	4	362/23	207
362/23.05	1	362/30	83
	2	362/29	125
	3	362/26	184
	4	362/23	207
362/23.06	2	362/23	207
	46	362/24	49
362/23.07	2	362/27	88
	4	362/26	184
	7	362/23	207
362/23.08	1	362/29	125
	1	362/30	83
	2	362/23	207
	2	362/26	184
	10	362/27	88
362/23.09	4	362/26	184
362/23.1	1	362/23	207
	1	362/30	83
	2	362/26	184
	10	362/27	88
362/23.11	2	362/30	83
362/23.12	11	362/29	125
	1	362/27	88
	1	362/29	125
362/23.13	6	362/30	83
	10	362/23	207
	12	362/26	184

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SOURCE CLASSIFICATION(S) OF PATENTS  
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<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
362/23.14	1	362/26	184
	3	362/23	207
	33	362/25	33
362/23.15	1	362/24	49
	5	362/23	207
	89	362/26	184
362/23.16	7	362/23	207
	7	362/26	184
	54	362/27	88
362/23.17	2	362/26	184
	11	362/23	207
	31	362/28	32
362/23.18	1	362/26	184
	7	362/23	207
	86	362/29	125
362/23.19	1	362/29	125
	6	362/23	207
	59	362/30	83
362/23.2	1	362/27	88
	1	362/29	125
	2	362/30	83
	8	362/23	207
	11	362/26	184
362/23.21	1	362/28	32
	2	362/30	83
	9	362/23	207
	11	362/26	184
362/23.22	1	362/23	207
362/235	1	362/23	207
362/242	1	362/23	207
362/259	1	362/23	207
362/260	1	362/26	184
362/309	1	362/26	184
362/34	1	362/23	207
362/458	1	362/26	184
362/471	2	362/23	207
362/487	1	362/23	207
362/489	3	362/26	184
	4	362/23	207
362/509	1	362/26	184
362/511	1	362/26	184
362/560	1	362/23	207
362/561	2	362/26	184

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SOURCE CLASSIFICATION(S) OF PATENTS  
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<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
362/600	1	362/26	184
362/608	1	362/26	184
362/609	1	362/26	184
362/610	1	362/26	184
362/612	1	362/27	88
	2	362/26	184
362/614	1	362/27	88
362/615	4	362/26	184
362/626	1	362/26	184
362/628	1	362/27	88
362/629	1	362/26	184
362/632	1	362/26	184
362/633	1	362/27	88
362/84	1	362/23	207
362/89	2	362/23	207
362/92	1	362/23	207
	1	362/26	184
362/97.1	1	362/30	83
	11	362/29	125
362/97.2	1	362/26	184
	1	362/30	83
	6	362/29	125
362/97.3	1	362/26	184
	1	362/30	83
712/200	1	362/30	83

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DISPOSITION CLASSIFICATION(S) OF PATENTS  
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Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
362/23	207	362/23.03	5
		362/23.04	4
		362/23.13	10
362/30	83	362/23.2	2
362/23	207	362/23.22	1
362/26	184	362/23.04	3
		362/23.18	1
362/27	88	362/23.16	54
362/30	83	362/23.05	1
362/29	125	362/23.12	1
362/26	184	362/23.08	2
362/23	207	362/23.16	7
362/28	32	362/23.17	31
362/26	184	362/92	1
362/23	207	362/259	1
		362/23.14	3
362/26	184	362/23.07	4
362/27	88	362/23.01	2
362/30	83	362/23.1	1
362/29	125	362/23.11	11
362/24	49	362/23.15	1
362/26	184	362/23.1	2
362/23	207	362/23.15	5
362/26	184	362/23.05	3
362/23	207	362/23.21	9
362/27	88	362/23.2	1
362/26	184	362/615	4
		362/608	1
362/23	207	362/23.07	7
362/26	184	362/23.09	4
362/27	88	362/23.1	10
362/23	207	362/23.01	96
362/26	184	362/23.14	1
		362/23.01	2
362/27	88	362/23.02	1
362/24	49	362/23.06	46
362/30	83	362/97.2	1
362/23	207	362/487	1
		362/471	2
362/30	83	712/200	1
362/29	125	362/97.1	11
362/26	184	362/610	1
362/23	207	362/242	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS  
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
362/26	184	362/629	1
362/23	207	362/23.02	3
362/27	88	362/23.04	3
362/26	184	362/23.15	89
362/23	207	362/23.2	8
362/26	184	362/23.13	12
362/30	83	362/23.11	2
362/23	207	362/23.08	2
		362/92	1
		362/560	1
362/26	184	362/458	1
362/30	83	362/97.1	1
362/23	207	362/489	4
362/26	184	362/509	1
		362/632	1
362/27	88	362/628	1
362/30	83	362/23.04	1
362/23	207	362/23.17	11
362/26	184	362/23.17	2
362/30	83	362/23.19	59
362/29	125	362/23.04	1
362/30	83	362/23.08	1
		362/23.21	2
362/26	184	362/309	1
		362/612	2
		362/97.2	1
362/23	207	362/84	1
362/30	83	362/97.3	1
362/26	184	362/561	2
		362/626	1
362/27	88	362/23.07	2
362/28	32	362/23.21	1
362/29	125	362/23.19	1
		362/23.03	4
362/30	83	362/23.03	4
362/23	207	362/23.18	7
		362/34	1
		362/89	2
362/26	184	362/97.3	1
		362/489	3
362/23	207	362/23.06	2
362/26	184	362/23.16	7
362/27	88	362/23.08	10

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DISPOSITION CLASSIFICATION(S) OF PATENTS  
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
362/23	207	362/23.19	6
362/26	184	362/23.2	11
362/23	207	362/23.05	4
362/29	125	362/23.08	1
362/25	33	362/23.14	33
362/29	125	362/23.18	86
362/26	184	362/260	1
		362/511	1
362/23	207	362/235	1
362/27	88	362/614	1
362/29	125	362/97.2	6
362/30	83	362/23.12	6
362/26	184	362/23.03	4
362/24	49	362/23.03	2
362/23	207	362/23.1	1
362/29	125	362/23.2	1
		362/23.05	2
362/27	88	362/23.12	1
362/26	184	362/23.21	11
		362/600	1
362/27	88	362/633	1
362/26	184	362/609	1
362/27	88	362/612	1

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C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

<u>Class</u>	<u>USPC</u> <u>Subclass</u>	<u>Subclass</u>	<u>IPC</u> <u>Notation</u>
362	23.01	G01K	1/06
	23.02 - 23.05	G01D	11/28
	23.06	H04M	1/22
	23.07	G01D	11/28
	23.08	G01D	11/28
	23.09	F01P	11/16
	23.1 - 23.14	G01D	11/28
	23.15	F01P	11/16
	23.16, 23.17	G01D	11/28
	23.18 - 23.22	G01D	11/28

CLASS 73 – MEASURING AND TESTING

Definitions Modified:

Subclass 293 Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, particularly subclasses 23.01- 23.22 for illuminating means, per se, or combined with a gauge dial of general application.

Subclass 499: Under SEE OR SEARCH CLASS:

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01- 23.22 for a dial illumination.

## CLASS 116 – SIGNALS AND INDICATORS

Definitions Modified:

Class Definition Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01- 23.22 for illuminated scale or dial which may include a broad recitation of indicia on the scale or dial.

Subclass 250: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01- 23.22 for artificial lighting of a scale or dial of general use.

CLASS 324 – ELECTRICITY: MEASURING AND TESTING

Definitions Modified:

Subclass 76.11                      Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01- 23.22 for illuminated dial or scale, some of which can be used as voltage or current indicators.

CLASS 334 – TUNERS

Definitions Modified:

Subclass 86                      Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362,    Illumination, subclasses 23.01-23.22 for dial illumination.

CLASS 340 – COMMUNICATIONS: ELECTRICAL

Definitions Modified:

Subclass 815.42: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.09 and 23.16 for edge illuminated modifier or light rod/pipe.

Subclass 815.53: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22 for illuminated scale or dial.

CLASS 359 – OPTICAL: SYSTEMS AND ELEMENTS

Definitions Modified:

Subclass 436: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22 for dial illuminators.

## CLASS 362 – ILLUMINATION

Definitions Abolished:

Subclasses: 23-30

Definitions Modified:

Subclass 5: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 23+

Insert:

23.01- 23.22, for means to illuminate a scale or dial generally.

Subclass 85: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 23

Insert:

23.01- 23.22, for means to illuminate a scale or dial generally.

Subclass 88: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 24

Insert:

23.06, for means to illuminate a manual telephone input device.

Subclass 109: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 23+

Insert:

23.01-23.22, for handheld instruments with an illuminated scale or dial.

Subclass 471: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 23

Insert:

23.01- 23.22, for an illuminated scale or dial.

Delete:

The entire reference to subclass 26+

Insert

23.09 and 23.1, for an edge illuminated modifier.

Delete:

The entire reference to subclass 29+.

Insert

23.19 and 23.2, for an internal light source including indirect illumination.

Subclass 502: Under See or Search This class, Subclass

Delete:

The entire reference to subclass 25

Insert:

23.15, for a radiator water temperature meter having an illuminated scale or dial.

Subclass 511: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 26+

Insert:

23.09 and 23.1, for an edge-illuminated modifier or light rod or pipe.

Subclass 560: Under See or Search This class, Subclass

Delete:

The entire reference to subclass 26

Insert:

23.09 and 23.1, for an edge-illuminated modifier or light rod or pipe.

Delete

The entire reference to subclass 30

Insert:

23.19, for an internal light source with indirect illumination.

Subclass 577: Under See or Search This Class, Subclass:

Delete

The entire reference to subclass 23+

Insert:

23.01- 23.22, for handheld instruments with an illuminated scale or dial.

Subclass 610: Under See or Search This class, Subclass

Delete:

The entire reference to subclass 26

Insert:

23.09 and 23.1, for an optical waveguide in an edge-illuminated modifier or light rod or pipe.

Subclass 613: Under See or Search This class, Subclass

Delete:

The entire reference to subclass 27

Insert:

23.1 and 23.17, for plural light sources in an illuminated scale or dial.

Subclass 615: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 26

Insert:

23.09 and 23.16, for a lightguide in an edge-modifier or light rod or pipe

Subclass 812: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 23

Insert:

23.01- 23.22, for illuminated scales or dials with indicia thereon.

Definitions Established:**23.01 ILLUMINATED INDICATOR (I.E., SCALE OR DIAL OR INPUT DEVICE):**

This subclass is indented under the class definition. Subject matter wherein the visible radiant energy highlights a marking, e.g., a number, letter, dash, etc., usually on an underlying support such as a rod, plate, disk, frame, or casing combined with means, claimed or disclosed, or devices claimed or disclosed as bearing two or more markings wherein the illuminating structure contributes to the illumination of the markings.

- (1) Note. Generally, means for driving, operating or controlling indicator will exclude classification in this class. For example, a movable pointer, clockwork mechanism, measuring means, condition responsive sensor or positions indicating sensor will be excluded.
- (2) Note. Combinations including specific structure of machinery or apparatus provided for in other classes, beyond recitations of structure necessary to set out the relationship of the illuminated input device, scale, dial or markings, will generally be classified with that machinery or apparatus.
- (3) Note. The variable of the definition above could be just the position of a control knob. The mere disclosure of illuminating an unmarked panel, plate or knob is insufficient for classification herein.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 5, for a photographic illuminator with measuring or indicating means. See other subclasses directed to the basic illuminating structure of this class where means indicating the position, compositions or distribution of light may be claimed or disclosed.

## SEE OR SEARCH CLASS:

- 40, Card, Picture, or Sign Exhibiting, subclass 204 for illuminated license plates, subclasses 480 and 502 for illuminated changeable exhibitors, and subclasses 541-583 for illuminated signs.
- 73, Measuring and Testing, subclass 293 for a liquid level gauge with illuminating means and subclass 499 for a speed or acceleration measuring device with an illuminated reading device.
- 116, Signals and Indicators, subclass 250 for illumination of an indicator and see search notes for other search areas.
- 177, Weighing Scales, subclasses 177 and 178 for such scales with illumination.
- 250, Radiant Energy, subclass 463.1 for self-luminous dials, etc.

- 340, Communications: Electrical, see notes above.
- 368, Horology: Time Measuring Systems or Devices, subclass 67 for illuminated clocks with recited drive or clockwork mechanism; and subclass 227 for clock dials, per se.
- 400, Typewriting Machines, subclasses 472–496 for keyboard or key level-actuating mechanism, per se.

**23.02 Light sensor:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminated indicator is used with means to detect a change of visible radiant energy.

**23.03 Keyboard:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminated indicator is used with an input device having row or rows of keys that act as mechanical levers or electronic switches to input data.

**SEE OR SEARCH CLASS:**

- 200, Electricity: Circuit Makers and Breakers, subclass 310 for illuminated input having details of switch structure
- 341, Coded Data Generation or Conversion, subclass 22 for keyboard or keypad in a bodily actuated code generator, per se.
- 345, Computer Graphics Processing and Selective Visual Display Systems, subclass 168 for an illuminated keyboard in a display peripheral interface input device

**23.04 Switch:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminated indicator is used with electrical means that control electrical current by opening and closing a circuit.

- (1) Note. Details of switch structure (i.e., movable contact and/or mating contact) are not proper for this subclass

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 249.05, for support with switch and light emitting diode.
- 249.11, for support with switch without light-emitting diode.

SEE OR SEARCH CLASS:

200, Electricity: Circuit Makers and Breakers, for switch structure, per se.

**23.05 Pushbutton:**

This subclass is indented under subclass 23.04. Subject matter wherein the illuminated indicator is used with an actuator that operates to open or close an electrical circuit when pressed.

SEE OR SEARCH CLASS:

200, Electricity: Circuit Makers and Breakers, subclass 314 for pushbutton-type with details of switch structure.

**23.06 Manual telephone input device (i.e., dial):**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminated indicator is used with means that are part of an instrument for reproducing sounds at a distance wherein the sounds are converted into electrical impulses for transmission by wire and whose circuit is independent of the means for illuminating the instrument.

SEE OR SEARCH THIS CLASS, SUBCLASS:

88, for a general illuminator for a telephone instrument.

SEE OR SEARCH CLASS:

379, Telephonic Communications, subclasses 441-456 for telephone transmitter dial lights.

**23.07 Having light emitting diode:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminated indicator light source comprises a two-electrode semiconductor device emitting incoherent optical radiation when biased by a voltage in a forward direction.

SEE OR SEARCH THIS CLASS, SUBCLASS:

249.02, for plural light emitting diodes with support.

311.02, for a light-emitting diode in a translucent or transparent modifier.

545, for plural light-emitting diodes in a common housing in a vehicle.

555, for light-emitting diode in a light fiber, rod, or pipe.

612, for light-emitting diode in an edge lighted panel.

800, for a light-emitting diode in a cross-reference art collection.

SEE OR SEARCH CLASS:

257, Active Solid-State Devices (e.g., Transistors, Solid-State Diodes), subclass 98 for an incoherent light-emitter structure with a reflector, opaque mask, or optical element.

**23.08 Multicolor:**

This subclass is indented under subclass 23.07. Subject matter wherein the illuminated indicator light source comprises light emitting diodes that emit light of different wavelengths.

SEE OR SEARCH THIS CLASS, SUBCLASS:

231, for plural light sources that emit different wavelengths, per se.

**23.09 Edge illuminated modifier or light rod/pipe:**

This subclass is indented under subclass 23.07. Subject matter wherein the illuminating structure includes (a) an object made of light transmitting material with a relatively narrow surface or side disposed adjacent a light source; or (b) a transparent, relatively elongated structure which transmits light rays from one point to another within the confines of its outer surface or surfaces by internal reflections or nodal transmission.

(1) Note. This and indented subclass include, for example, the combination of a relatively thin light transmitting object and a light source located in an aperture extending through its major surfaces or embedded between said major surfaces.

SEE OR SEARCH THIS CLASS, SUBCLASS:

23.16, for edge illuminated modifier or light rod/pipe not using LED as light source.

600-634, for edge lighted panels without a dial or scale.

551-582, for illumination means which includes light fibers, rods or pipes without a dial or scale.

## SEE OR SEARCH CLASS:

- 40, Card, Picture, or Sign Exhibiting, subclass 423 and 541-583 for edge illuminated signs and including fiber optics.
- 116, Signals and Indicators, subclasses 200, 244, and 286- 288 for indicators using light guides.
- 340, Communications: Electrical, subclasses 815.42 and 815.43 for light piping used in electrically controlled visual signal indicators.
- 385, Optical Waveguides, appropriate subclasses for light transmitting fibers, rods, or pipes, per se.

**23.1 Plural light sources:**

This subclass is indented under subclass 23.09. Subject matter wherein illuminating structure includes more than one light source.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

23.17, for plural light sources not using LED as light source.

613, for plural light sources in an edge lighted panel, per se.

**23.11 Illuminated through meter case:**

This subclass is indented under subclass 23.07. Subject matter wherein the scale or dial is contained within an instrument case and the illuminating structure is external to the case, the case having an opening through which the scale or dial is observed and either another opening or light transparent portion through which light from the external illuminating structure enters the case to illuminate the scale or dial.

- (1) Note. The instrument has no structure to measure a quantity and the dial has no arrangement or structure to classify the instrument or dial in an appropriate measuring or indicating class.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

23.18, for illuminated through meter case not using LED as light source.

## SEE OR SEARCH CLASS:

- 33, Geometrical Instruments, subclasses 792- 805 for dial-type distance measuring, and subclasses 501- 501.19 for measuring-type gauges.

- 73, Measuring and Testing, subclass 293 for illuminated liquid level gauges, subclass 499 for a speed or acceleration illuminated reading device, and subclass 431 for instrument casings.
- 116, Signals and Indicators, subclass 250 for illumination of an indicator and see search notes for other search areas.
- 324, Electricity: Measuring and Testing, subclasses 76.11- 76.83 for measuring, testing or sensing electricity; subclasses 160-180 for electrical speed measuring devices.
- 374, Thermal Measuring and Testing, subclasses 100-116 for detailed structure of thermometers in such an arrangement.

**23.12 Internal light source:**

This subclass is indented under subclass 23.07. Subject matter wherein the illuminated indicator is used with means that include meter housing or casing and the illuminating structure includes a light source within said housing or casing.

SEE OR SEARCH THIS CLASS, SUBCLASS:

23.19, for internal light source not using LED as light source.

**23.13 Indirect illumination:**

This subclass is indented under subclass 23.12. Subject matter wherein the illuminating structure includes light modifiers or directors that are interposed between the means and the light source.

(1) Note. This subclass includes combinations wherein a light source is located behind the viewing face of a dial or scale plate that is translucent or transparent.

SEE OR SEARCH THIS CLASS, SUBCLASS:

23.13, for indirect illumination not using LED as light source.

153, for edge lighted modifiers or light conducting fibers, rods or pipes which may indirectly illuminate other elements.

**23.14 Including reflector:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminating structure includes a surface that redirects incident light.

SEE OR SEARCH THIS CLASS, SUBCLASS:

217.05, for reflector-type modifier in an elongated light unit or support.

341, for reflectors, per se, for illuminating purposes.

**23.15 Radiator water temperature meter:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminating structure includes means bearing two or more markings that indicate the temperature of the water or water vapor in a heat exchange device which transfers heat from water or water vapor to air.

- (1) Note. Subject matter of this subclass type may comprise, for example, an attachment to a radiator cap or part of the radiator cap of an automobile or be attached to the filter neck or radiator of an automobile.

SEE OR SEARCH CLASS:

374, Thermal Measuring and Testing, subclasses 100-112 for detailed structure of thermometers, particularly subclass 146 for radiator cap mounted thermometers.

**23.16 Edge illuminated modifier or light rod/pipe:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminating structure includes (a) an object made of light transmitting material with a relatively narrow surface or side disposed adjacent a light source; or (b) a transparent, relatively elongated structure which transmits light rays from one point to another within the confines of its outer surface or surfaces by internal reflections or nodal transmission.

- (1) Note. This and indented subclass include, for example, the combination of a relatively thin light transmitting object and a light source located in an aperture extending through its major surfaces or embedded between said major surfaces.

SEE OR SEARCH THIS CLASS, SUBCLASS:

23.09, for edge illuminated modifier or light rod/pipe using LED as light source.

600-634, for edge lighted panels without a dial or scale.

551-582, for illumination means which includes light fibers, rods or pipes without a dial or scale.

## SEE OR SEARCH CLASS:

- 40, Card, Picture, or Sign Exhibiting, subclasses 423 and 541-583 for edge illuminated signs and including fiber optics.
- 116, Signals and Indicators, subclasses 200, 244, and 286 + for indicators using light guides.
- 340, Communications: Electrical, subclasses 815.42 and 815.43 for light piping used in electrically controlled visual signal indicators
- 385, Optical Waveguides, appropriate subclasses for light transmitting fibers, rods, or pipes, per se.

**23.17 Plural light sources:**

This subclass is indented under subclass 23.16. Subject matter wherein illuminating structure includes more than one light source.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 23.10, for plural light sources using LED as light source.
- 613, for plural light sources in an edge lighted panel, per se.

**23.18 Illuminated through meter case:**

This subclass is indented under subclass 23.01. Subject matter wherein the scale or dial is contained within an instrument case and the illuminating structure is external to the case, the case having an opening through which the scale or dial is observed and either another opening or light transparent portion through which light from the external illuminating structure enters the case to illuminate the scale or dial.

- (1) Note. The instrument has no structure to measure a quantity and the dial has no arrangement or structure to classify the instrument or dial in an appropriate measuring or indicating class.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 23.11, for illuminated through meter case not using LED as light source.

## SEE OR SEARCH CLASS:

- 33, Geometrical Instruments, subclasses 792-805 for dial-type distance measuring, and subclasses 501-501.19 for measuring-type gauges.

- 73, Measuring and Testing, subclass 293 for illuminated liquid level gauges, subclass 499 for a speed or acceleration illuminated reading device, and subclass 431 for instrument casings.
- 116, Signals and Indicators, subclass 250 for illumination of an indicator and see search notes for other search areas.
- 324, Electricity: Measuring and Testing, subclasses 76.11-76.83 for measuring, testing or sensing electricity; subclasses 160-180 for electrical speed measuring devices.
- 374, Thermal Measuring and Testing, subclasses 100-116 for detailed structure of thermometers in such an arrangement.

**23.19 Internal light source:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminated indicator is used with means that include meter housing or casing and the illuminating structure includes a light source within said housing or casing.

SEE OR SEARCH THIS CLASS, SUBCLASS:

23.11, for internal light source using LED as light source.

**23.2 Indirect illumination:**

This subclass is indented under subclass 23.19. Subject matter wherein the illuminating structure includes light modifiers or directors that are interposed between the means and the light source.

(1) Note. This subclass includes combinations wherein a light source is located behind the viewing face of a dial or scale plate that is translucent or transparent.

SEE OR SEARCH THIS CLASS, SUBCLASS:

23.13, for indirect illumination using LED as light source.

153, for edge lighted modifiers or light conducting fibers, rods or pipes which may indirectly illuminate other elements.

**23.21 Pointer type:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminating structure includes means that indicate a direction or a relation usually with an arrow or a mark.

SEE OR SEARCH CLASS:

116, Signals and Indicators, subclass 48 for illuminated pointer of an indicator and see search notes for other search areas.

**23.22 Including rotary knob:**

This subclass is indented under subclass 23.01. Subject matter wherein the illuminating structure includes a rounded handle that is pulled or twisted.

SEE OR SEARCH THIS CLASS, SUBCLASS:

100, for door knob or keyhole illuminator, per se.

**FOREIGN ART COLLECTIONS**

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection schedule of this class for specific correspondences.

[**Note:** The titles and definitions for *indented* art collections include all the details of the one(s) that are hierarchically superior.]

**FOR 110 ILLUMINATED SCALE OR DIAL (362/23):**

This foreign art collection is indented under the class definition. Foreign art collection wherein subject matter combined with means, claimed or disclosed as bearing two or more markings corresponding to the same number of consecutive measurements of some variable other than merely the position, composition, or distribution of light from the illuminating structure of this class wherein the illuminating structure contributes to the illumination of the markings.

- (1) Note. Generally, means for driving, operating or controlling indicator will exclude classification in this class. For example, a movable pointer, clockwork mechanism measuring means, condition responsive sensor or positions indicating sensor.
- (2) Note. Combinations including specific structure of machinery or apparatus provided for in other classes, beyond recitations of structure necessary to set out the relationship of the illuminated scale, dial or markings, will generally be classified with that machinery or apparatus.
- (3) Note. The variable of the definition above could be just the position of a control knob. The mere disclosure of illuminating an unmarked panel, plate or knob is insufficient for classification herein.

**FOR 111 Telephone dial (362/24):**

This foreign art collection is indented under subclass FOR 110. Foreign art collection wherein the means is part of an instrument for reproducing sounds at a distance wherein the sounds are converted into electrical impulses for transmission by wire and whose circuit is independent of the means for illuminating the instrument.

**FOR 112 Radiator water temperature meter (362/25):**

This foreign art collection is indented under subclass FOR 110. Foreign art collection wherein the means bearing two or more markings indicates the temperature of the water or water vapor in a heat exchange device which transfers heat from water or water vapor to air.

- (1) Note. Subject matter of this subclass type may comprise, for example, an attachment to a radiator cap or part of the radiator cap of an automobile or be attached to the filter neck or radiator of an automobile.

**FOR 113 Edge illuminated modifier or light rod/pipe (362/26):**

This foreign art collection is indented under subclass FOR 110. Foreign art collection wherein the illuminating structure includes (a) an object made of light transmitting material with a relatively narrow surface or side disposed adjacent a light source; or (b) a transparent, relatively elongated structure which transmits light rays from one point to another within the confines of its outer surface or surfaces by internal reflections or nodal transmission.

- (1) Note. This and indented subclass include, for example, the combination of a relatively thin light transmitting object and a light source located in an aperture extending through its major surfaces or embedded between said major surfaces.

**FOR 114 Plural light sources (362/27):**

This foreign art collection is indented under subclass FOR 113. Foreign art collection wherein the illuminating structure includes more than one light source.

**FOR 115 Illuminated through meter case (362/28):**

This foreign art collection is indented under subclass FOR 110. Foreign art collection wherein the scale or dial is contained within an instrument case and the illuminating structure is external to the case; the case having an opening through which the scale or dial is observed and either another opening or light transparent portion through which light from the external illuminating structure enters the case to illuminate the scale or dial.

- (1) Note. The instrument has no structure to measure a quantity and the dial has no arrangement or structure to classify the instrument or dial in an appropriate measuring or indicating class

**FOR 116 Internal light source (362/29):**

This foreign art collection is indented under subclass FOR 110. Foreign art collection wherein the means includes a meter housing or casing and the illuminating structure includes a light source within said housing or casing.

**FOR 117      Indirect illumination (362/30):**

This foreign art collection is indented under subclass FOR 116. Foreign art collection wherein the illuminating structure includes light modifiers or directors that are interposed between the means and the light source.

- (1) Note. This subclass includes combinations wherein a light source is located behind the viewing face of a dial or scale plate that is translucent or transparent.

## CLASS 368 – HOROLOGY: TIME MEASURING SYSTEMS OR DEVICES

Definitions Modified:

Subclass 24: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22 for illuminated dials, per se.

Subclass 67: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22, for illumination of scales or dials, per se. Also see search class notes under subclasses 23.01-23.22 for other specific dial illumination.

Subclass 79: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22 for artificial-light means for dials.

Subclass 227: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22 for illumination of scales or dials, per se. Also see search class notes under subclasses 23.01-23.22 for other specific dial illumination.

Subclass 239: Under SEE OR SEARCH CLASS:

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclasses 23.01-23.22 for artificial-light means for dials.

CLASS 374 – THERMAL MEASURING AND TESTING

Definitions Modified:

Subclass 141: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclass 23.15 for an illuminating device for a thermometer

CLASS 379 – TELEPHONIC COMMUNICATIONS

Definitions Modified:

Subclass 352: Under See or Search Class

Delete:

The entire reference to Class 362

Insert:

362, Illumination, subclass 23.06 for an illuminated telephone dial.