

LIGHTING; HEATING**F 21 LIGHTING** (electric aspects or elements, see section H, e.g. electric light sources [H 01 J, K](#), [H 05 B](#))Notes

- (1) *If the disclosure gives no indication as to whether it relates to electrical means or not, it should be classified as if it were in fact electric.* [7]
- (2) Attention is drawn to Note III following the Contents of Section of section H.
- (3) Attention is drawn to the following places: [7]
- | | |
|-------------------------------|--|
| A 01 G 9/20 | <i>Lights for cultivation in receptacles, forcing frames, greenhouses</i> [7] |
| A 01 K 63/06 | <i>Aquaria</i> [7] |
| A 01 K 75/02 | <i>Fishing nets</i> [7] |
| A 01 K 85/01 | <i>Fishing baits</i> [7] |
| A 01 M 1/04 | <i>Catching insects</i> [7] |
| A 21 B 3/10 | <i>Baker's ovens</i> [7] |
| A 45 B 3/02 | <i>Sticks</i> [7] |
| A 45 C 15/06 | <i>Bags, purses, or the like</i> [7] |
| A 45 D 33/32 | <i>Toilet or cosmetic powder containers</i> [7] |
| A 45 D 42/10 | <i>Shaving mirrors</i> [7] |
| A 47 F 11/10 | <i>Shop windows or showcases</i> [7] |
| A 47 L 9/30 | <i>Suction cleaners</i> [7] |
| A 61 B 1/00 | <i>Medical instruments for examining body cavities or tubes</i> [7] |
| A 61 C 13/15 | <i>Curing dental plastics prostheses by light action</i> [7] |
| A 61 H 15/02 | <i>Massage adapted for simultaneous treatment with light</i> [7] |
| A 61 N 5/06 | <i>Radiation therapy</i> [7] |
| A 63 B 15/02 | <i>Clubs</i> [7] |
| A 63 B 43/06 | <i>Balls</i> [7] |
| A 63 C 17/26 | <i>Roller skates or skate boards</i> [7] |
| A 63 H 1/24 | <i>Tops</i> [7] |
| A 63 H 17/28 | <i>Toy vehicles</i> [7] |
| A 63 H 19/20 | <i>Model railways</i> [7] |
| B 25 B 23/18 | <i>Spanners, wrenches, screwdrivers</i> [7] |
| B 26 B 19/46 | <i>Hair clippers or dry shavers</i> [7] |
| B 26 B 21/46 | <i>Accessories for razors</i> [7] |
| B 41 B 21/08 | <i>Photographic composing machines</i> [7] |
| B 41 J 29/19 | <i>Typewriters or selective printing machines</i> [7] |
| B 43 K 29/10 | <i>Writing implements</i> [7] |
| B 44 D 3/24 | <i>Lamps for baking lacquers used in painting or artistic drawing</i> [7] |
| B 60 Q | <i>Arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general</i> [7] |
| B 61 D 29/00 | <i>Railway vehicles</i> [7] |
| B 61 L 5/18 | <i>Railway light signals</i> [7] |
| B 61 L 9/00 | <i>Points, form signals, or gates</i> [7] |
| B 62 J 6/00 | <i>Cycles</i> [7] |
| B 63 B 45/00 | <i>Ships</i> [7] |
| B 63 C 9/20 | <i>Life-buoys, life-belts, lifejackets</i> [7] |
| B 64 D 47/02 | <i>Aircraft</i> [7] |
| B 67 D 5/66 | <i>Apparatus for transferring liquids</i> [7] |
| D 05 B 79/00 | <i>Sewing machines</i> [7] |
| E 01 F 9/016 | <i>Road signs</i> [7] |
| E 01 F 9/053 | <i>Road surface markings</i> [7] |
| E 04 H 15/10 | <i>Tents or canopies</i> [7] |
| E 05 B 17/10 | <i>Locks or keys</i> [7] |
| F 24 F 3/056 | <i>Air conditioning systems</i> [7] |
| F 24 F 13/078 | <i>Outlets for directing air into rooms or spaces combined with lighting fixtures</i> [7] |
| F 25 D 27/00 | <i>Cooling or freezing apparatus</i> [7] |
| F 27 D 21/02 | <i>Furnaces, kilns, ovens or retorts</i> [7] |
| F 41 G 1/35 | <i>Night sights</i> [7] |
| G 01 C 9/32 | <i>Levels</i> [7] |
| G 01 C 17/24 | <i>Compasses</i> [7] |
| G 01 D 11/28 | <i>Measuring arrangements</i> [7] |
| G 01 G 23/30 | <i>Weighing apparatus</i> [7] |
| G 01 K 1/06 | <i>Thermometers</i> [7] |
| G 01 P 1/08 | <i>Speedometers</i> [7] |
| G 01 R 1/08 | <i>Instruments for measuring</i> [7] |
| G 02 B 21/06 | <i>Microscopes</i> [7] |

G 02 B 25/02	Magnifying glasses [7]
G 02 B 27/20	Light-pointers [7]
G 02 B 27/34	Optical instruments [7]
G 02 C 11/04	Spectacles [7]
G 02 F 1/1335	Liquid crystals [7]
G 02 F 1/157	Electrochromic cells [7]
G 03 B 15/02	Illuminating scene for taking photographs [7]
G 03 B 15/03	Cameras [7]
G 03 B 27/16	Contact photographic printing [7]
G 03 B 27/54	Projection photographic printing [7]
G 04 B 19/30	Clocks [7]
G 04 C 17/02	Time indicating by electric lamps [7]
G 04 C 19/02	Time signalling by electric lamps [7]
G 08 B 5/36	Visible signalling or calling systems [7]
G 08 B 17/103	Actuation of fire alarms [7]
G 08 G 1/095	Traffic lights [7]
G 09 F 13/00	Illuminated signs [7]
G 09 F 19/22	Advertising or display means on roads or walls [7]
G 09 F 21/10,	
G 09 F 21/14	Aircraft advertising [7]
G 09 F 21/20	Advertising on ships [7]
G 09 F 23/04	Illuminated advertising on or in specific articles [7]
G 12 B 11/00	Indicating elements of instruments [7]
H 01 H 73/14	Indicating lamps in circuit-breaker switches [7]
H 01 H 85/32	Indicating lamps in fuses [7]
H 01 Q 1/06	Lighting of aerials [7]
H 01 R 13/717	Coupling devices with built-in light bulbs [7]
H 03 K 21/20	Pulse counter or frequency divider indicators using glow-discharge lamps [7]
H 04 M 1/22	Illuminating of telephone substation equipment [7]

F 21 H INCANDESCENT MANTLES; OTHER INCANDESCENT BODIES HEATED BY COMBUSTION (arrangements thereof
[F 21 V 36/00](#); burners [F 23 D](#))

1/00	Incandescent mantles; Selection of imbibition liquids therefor	3/00	Manufacturing incandescent mantles; Treatment prior to use, e.g. burning-off; Machines for manufacturing
1/02	. characterised by the material thereof		
1/04	(transferred to F 21 V 19/06)	5/00	Solid incandescent bodies (incandescent mantles 1/00)

F 21 K LIGHT SOURCES NOT OTHERWISE PROVIDED FOR

2/00	Light sources using luminescence (luminescent materials C 09 K 11/00 ; selection of luminescent materials for light screens F 21 V 9/16 ; using excitation by radioactivity G 21 H 3/02 , H 01 J 65/06 , 65/08 ; transforming the wavelength of the light of gas- or vapour-discharge lamps by luminescence H 01 J 61/42 ; electroluminescent light sources H 05 B 33/00) [2,7]	5/04	. Plural charges, e.g. associated for sequential ignition (5/06 , 5/12 take precedence) [5]
2/04	. using triboluminescence; using thermoluminescence	5/06	. Charge containment [5]
2/06	. using chemiluminescence [3]	5/08	. . Charge held in non-disrupting container, e.g. photo-flash bulb [5]
2/08	. . activated by an electric field, i.e. electrochemiluminescence [3]	5/10	. . . bearing a coating [5]
		5/12	. Charge ignition [5]
		5/14	. . percussive [5]
		5/16	. . electrical (circuit arrangements H 05 B 43/02) [5]
		5/18	. . . Electrically-ignited primers [5]
		5/20	. Charge feeding means [5]
		5/22	. Protective light shields [5]
5/00	Light sources using charges of combustible material, e.g. illuminating flash devices (explosive or thermic compositions C 06 B ; fireworks F 42 B 4/00 ; photographic flash units G 03 B 15/03) [3,5]	7/00	Other light sources

F 21 L LIGHTING DEVICES OR SYSTEMS THEREOF, BEING PORTABLE OR SPECIALLY ADAPTED FOR TRANSPORTATION [1,7]

Notes

- (1) This subclass covers devices or systems designed or specially adapted to be carried, e.g. by hand, or otherwise transported from place to place, e.g. on wheeled supports, in order to provide illumination as and where required. [7]
- (2) This subclass does not cover devices or systems intended for fixed installation, e.g. vehicle lighting, or for use essentially at a permanent location, which are covered by subclass F 21 S. [7]
- (3) In this subclass, it is desirable to add the indexing codes of subclasses F 21 W and Y. The indexing codes should be unlinked. [7]

Subclass Index

ELECTRIC DEVICES

Systems 2/00
 with self-contained batteries or
 cells 4/00
 with built-in generators 13/00
 without self-contained power source 14/00

NON-ELECTRIC DEVICES

Torches, flares; lanterns.....17/00; 19/00
 Pocket-lamps; miners' hand-lamps.....21/00; 23/00
 COMBINATIONS OF ELECTRIC AND
 NON-ELECTRIC DEVICES27/00

Electric lighting

- 1/00 (transferred to 14/00)
- 2/00 Systems of lighting devices [7]
- 3/00 (transferred to 14/00)
- 4/00 Devices with self-contained electric batteries or cells [7]
- 4/02 . characterised by provision of two or more light sources [7]
- 4/04 . characterised by provision of a light source housing portion adjustably fixed to the remainder of the device [7]
- 4/06 . with light source coupled to the remainder of the device solely by cable [7]
- 4/08 . characterised by means for in situ recharging of the batteries or cells [7]
- 5/00 (transferred to 14/00)
- 7/00 (transferred to 4/00)
- 9/00 (transferred to 4/00)
- 11/00 (transferred to 4/00)
- 13/00 Devices with built-in electric generators (with solar cells 4/00) [1,7]
- 13/02 . with fluid drive
- 13/04 . . actuated by hand
- 13/06 . with mechanical drive, e.g. spring
- 13/08 . . by reciprocating pusher actuated by hand
- 14/00 Devices without a self-contained power source, e.g. for mains connection [7]
- 14/02 . capable of hand-held use, e.g. inspection lamps [7]
- 14/04 . carried on wheeled supports [7]

- 15/00 (transferred to F 21 V)
- 15/02 (transferred to F 21 V 1/00 to 14/00)
- 15/04 (covered by F 21 V 9/00 to 13/00)
- 15/06 (transferred to F 21 V)
- 15/08 (transferred to F 21 V 21/00)
- 15/10 (transferred to F 21 V 21/00)
- 15/12 (transferred to F 21 V 21/40)
- 15/14 (transferred to F 21 V 21/084, 21/088)
- 15/16 (transferred to F 21 V 21/092)
- 15/18 (transferred to F 21 V 21/096)
- 15/20 (transferred to F 21 V 21/14)
- 15/22 (covered by F 21 V 27/00)

Non-electric lighting (candle holders F 21 V 35/00; burners, combustion apparatus F 23)

- 17/00 Torches; Flares
- 19/00 Lanterns, e.g. hurricane lamps, candle lamps
- 19/02 (transferred to F 21 V 17/00, 37/00)
- 19/04 (transferred to F 21 V 37/02)
- 21/00 Pocket-lamps, e.g. producing sparks
- 23/00 Miners' hand-lamps
- 25/00 (transferred to F 21 V)
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- 27/00 Devices or systems employing combinations of electric and non-electric light sources; Replacing electric by non-electric light sources or vice versa

F 21 M (transferred to F 21 S, V)

1/00	<i>(transferred to F 21 S 2/00, 6/00, 8/00)</i>	3/26	<i>(transferred to F 21 S 8/10, covered by F 21 V 9/14)</i>
3/00	<i>(transferred to F 21 S 8/10)</i>	3/28	<i>(transferred to F 21 S 8/10)</i>
3/02	<i>(transferred to F 21 S 8/10)</i>	3/30	<i>(transferred to F 21 S 8/10)</i>
3/05	<i>(transferred to F 21 S 8/12)</i>	5/00	<i>(covered by F 21 S 9/00)</i>
3/08	<i>(covered by F 21 V 7/00)</i>	5/02	<i>(covered by F 21 S 9/02)</i>
3/10	<i>(transferred to F 21 S 8/10)</i>	5/04	<i>(covered by F 21 S 9/04)</i>
3/12	<i>(covered by F 21 V 5/00)</i>	7/00	<i>(transferred to F 21 V)</i>
3/14	<i>(covered by F 21 V 11/00)</i>	9/00	<i>(covered by F 21 S 13/00, 15/00)</i>
3/16	<i>(covered by F 21 V 7/00)</i>	11/00	<i>(covered by F 21 S 13/00, 15/00)</i>
3/18	<i>(transferred to F 21 V 14/00)</i>	13/00	<i>(transferred to F 21 V)</i>
3/20	<i>(transferred to F 21 V 7/16, 14/04)</i>	15/00	<i>(covered by F 21 S 19/00)</i>
3/22	<i>(transferred to F 21 V 14/02)</i>		
3/24	<i>(transferred to F 21 S 10/06)</i>		
3/25	<i>(transferred to F 21 S 8/10, 10/00, covered by F 21 V 9/08)</i>		

F 21 P (transferred to F 21 S, V)

1/00	<i>(transferred to F 21 S, V)</i>	5/00	<i>(transferred to F 21 S, V)</i>
1/02	<i>(transferred to F 21 S, V)</i>	5/02	<i>(transferred to F 21 S, V)</i>
1/04	<i>(transferred to F 21 S, V)</i>	5/04	<i>(transferred to F 21 S, V)</i>
3/00	<i>(transferred to F 21 S 10/00 to 19/00, F 21 V)</i>	7/00	<i>(transferred to F 21 S, V)</i>

F 21 Q (transferred to F 21 S)

1/00	<i>(transferred to F 21 S 8/10, 13/00 to 19/00)</i>	5/00	<i>(covered by F 21 S 19/00)</i>
3/00	<i>(transferred to F 21 S)</i>		
3/02	<i>(transferred to F 21 S)</i>		

F 21 S NON-PORTABLE LIGHTING DEVICES OR SYSTEMS THEREOF [1,7]

Notes

- (1) This subclass covers devices or systems intended for fixed installation, e.g. vehicle lighting, or for use at a permanent location, e.g. free-standing floor- or table-lamps. [7]
- (2) This subclass does not cover devices or systems specially adapted for transportation, which are covered by subclass F 21 L. [7]
- (3) In this subclass, it is desirable to add the indexing codes of subclasses F 21 W and Y. The indexing codes should be unlinked. [7]

Subclass Index

ELECTRIC DEVICES	Producing varying lighting effects	10/00
Systems	NON-ELECTRIC DEVICES	
String or strip of light sources	Using daylight	11/00
Free-standing	Light source: Point-like or of	
Fixed installation.....	unspecified shape	13/00
Built-in power supply	Other devices	15/00
	COMBINATIONS OF ELECTRIC AND	
	NON-ELECTRIC DEVICES	19/00

1/00 to
1/14 (transferred to 2/00, 6/00, 8/00)

Electric lighting [7]

2/00 **Systems of lighting devices, not provided for in main groups 4/00 to 10/00, e.g. of modular construction** [7]

3/00 to
3/14 (transferred to 2/00, 6/00, 8/00)

4/00 **Devices or systems using a string or strip of light sources** [7]

5/00 (transferred to 2/00, 6/00, 8/00)

6/00 **Devices intended to be free-standing** (9/00, 10/00 take precedence) [7]

7/00 (transferred to 2/00, 6/00, 8/00)

8/00 **Devices intended for fixed installation** (9/00, 10/00 take precedence; using a string or strip of light sources 4/00) [7]

8/02 . . of recess-mounted type, e.g. downlighters (8/10 takes precedence) [7]

8/04 . . intended only for mounting on a ceiling or like overhead structure (8/02 takes precedence) [7]

8/06 . . by suspension [7]

8/08 . . with a standard [7]

8/10 . . specially adapted for vehicles (arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B 60 Q) [7]

8/12 . . providing a single shaped beam, e.g. asymmetric beam, e.g. for penetrating fog or for preventing glare [7]

9/00 **Devices with a built-in power supply; Systems employing such devices**

9/02 . the power supply being a battery or accumulator

9/03 . . rechargeable by exposure to light [7]

9/04 . the power supply being a generator

10/00 **Devices or systems producing a varying lighting effect** [7]

10/02 . changing colours (10/04 takes precedence) [7]

10/04 . simulating flames [7]

10/06 . flashing, e.g. with rotating reflector or light source [7]

Non-electric lighting (candle holders F 21 V 35/00; burners, combustion apparatus F 23)

11/00 **Devices or systems using daylight** (building arrangements in general, building details E 04; windows or the like E 06 B)

13/00 **Devices or systems employing a point-like light source; Devices or systems employing a light source of unspecified shape**

13/02 . Devices intended to be fixed, e.g. ceiling lamp, wall lamp

13/04 . . with a pendant

13/06 . . . multi-branched, e.g. chandelier

13/08 . . with suspension from a stretched wire

13/10 . . with a standard, e.g. street lamp

13/12 . Devices intended to be free-standing, e.g. table lamp, floor lamp

13/14 . Lighting systems

15/00 **Devices or systems employing light sources not covered by group 11/00 or 13/00**

17/00 (transferred to F 21 V)

8/00 Use of light guides, e.g. fibre optic devices, in lighting devices or systems (light guides *per se*, structural details of arrangements with other optical elements [G 02 B 6/00](#)) [4]

9/00 Light filters (coloured shades [1/00](#)); **Selection of luminescent materials for light screens** (luminescent materials *per se* [C 09 K 11/00](#); electroluminescent light sources [H 05 B 33/00](#))

- 9/02 . for simulating daylight ([9/04](#), [9/06](#), [9/16](#) take precedence)
- 9/04 . for filtering out infra-red radiation (using liquid-filled chambers [9/12](#))
- 9/06 . for filtering out ultra-violet radiation ([9/16](#) takes precedence)
- 9/08 . for producing coloured light, e.g. monochromatic; for reducing intensity of light ([9/16](#) takes precedence)
- 9/10 . . with provision for variation of the colour or intensity ([9/12](#) takes precedence)
- 9/12 . . with liquid-filled chambers
- 9/14 . for producing polarised light
- 9/16 . Selection of luminescent materials for light screens

11/00 Screens not covered by groups [1/00](#), [3/00](#), [7/00](#), [9/00](#)

- 11/02 . using parallel laminae or strips, e.g. of Venetian-blind type ([11/06](#) takes precedence)
- 11/04 . . adjustable
- 11/06 . using crossed laminae or strips; using lattices or honeycombs
- 11/08 . using diaphragms containing one or more apertures
- 11/10 . . of iris type
- 11/12 . . of slot type
- 11/14 . . with many small apertures
- 11/16 . using sheets without apertures, e.g. fixed ([11/02](#), [11/06](#) take precedence)
- 11/18 . . movable, e.g. flaps, slides

13/00 Producing particular characteristics or distribution of the light emitted by means of a combination of elements specified in two or more of main groups [1/00](#) to [11/00](#) (by means of a combination of two or more elements covered by a single one of main groups [1/00](#) to [11/00](#), *see* the relevant group; changing the characteristics or distribution of the light emitted by adjustment of parts [14/00](#)) [1,7]

- 13/02 . Combinations of only two kinds of elements
- 13/04 . . the elements being reflectors and refractors
- 13/06 . . . a reflector being rotatable
- 13/08 . . the elements being reflectors and filters
- 13/10 . . the elements being reflectors and screens
- 13/12 . Combinations of only three kinds of elements
- 13/14 . . the elements being reflectors, refractors, and filters

14/00 Changing the characteristics or distribution of the light emitted by adjustment of parts (reflectors with provision for adjusting the curvature [7/16](#); light filters with provision for variation of colour or intensity [9/10](#); screens using iris-type diaphragms [11/10](#); adjustable mountings for lighting devices [21/14](#)) [7]

- 14/02 . by movement of light sources [7]
- 14/04 . by movement of reflectors [7]

14/06 . by movement of refractors [7]

14/08 . by movement of screens [7]

Details of those parts not involved in light emission or distribution, e.g. fittings

15/00 Protecting lighting devices from damage (cooling or heating arrangements [29/00](#); gas-tight or water-tight arrangements [31/00](#))

15/01 . Housings, e.g. material or assembling of housing parts ([15/02](#) takes precedence) [7]

15/015 . . Devices for covering joints between adjacent lighting devices; End coverings [7]

15/02 . Cages

15/04 . Resilient mountings, e.g. shock-absorbers (in general [F 16 F 15/04](#))

15/06 . Thermal insulation [7]

17/00 Fastening of component parts of lighting devices, e.g. shades, globes, refractors, reflectors, filters, screens, grids or protective cages (of light sources or light holders [19/00](#); gas-tight or water-tight arrangements [31/00](#))

17/02 . with provision for adjustment ([17/04](#) to [17/08](#) take precedence; changing the characteristics or distribution of the light emitted by adjustment of parts [14/00](#)) [1,7]

17/04 . onto or by the light source

17/06 . onto or by the lamp holder

17/08 . onto the supporting or suspending arrangements of the lighting device, e.g. power cords, standards [7]

17/10 . characterised by specific fastening means or way of fastening ([17/02](#) to [17/08](#) take precedence) [7]

17/12 . . by screwing [7]

17/14 . . Bayonet-type fastening [7]

17/16 . . by deformation of parts of the lighting device; Snap action mounting [7]

17/18 . . Latch-type fastening, e.g. with rotary action [7]

17/20 . . by toggle-action levers [7]

19/00 Fastening of light sources or lamp holders (fastening electric light source solely by the coupling device [H 01 R 33/00](#))

19/02 . with provision for adjustment, e.g. for focusing (changing the characteristics or distribution of the light emitted by adjustment of parts [14/00](#)) [1,7]

19/04 . with provision for changing light source, e.g. turret

19/06 . Fastening incandescent mantles or other incandescent bodies to lamp parts; Suspension devices for incandescent mantles or other incandescent bodies [1,7]

- 21/00** **Supporting, suspending, or attaching arrangements for lighting devices** (17/00, 19/00 take precedence; arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B 60 Q; stands for supporting apparatus or articles in general F 16 M 11/00); **Hand grips** [1,7]
- 21/002 . . making direct electrical contact, e.g. by piercing (21/35 takes precedence) [7]
- 21/005 . . for several lighting devices in an end-to-end arrangement, i.e. light tracks [7]
- 21/008 . . Suspending from a cable or suspension line [7]
- 21/02 . . Wall, ceiling, or floor bases; Fixing pendants or arms to the bases (21/08 takes precedence; bases for movable standing lamps 21/06)
- 21/03 . . . Ceiling bases, e.g. ceiling roses (21/04 takes precedence) [7]
- 21/04 . . . Recessed bases
- 21/06 . . Bases for movable standing lamps; Fixing standards to the bases (21/08 takes precedence)
- 21/08 . . Devices for easy attachment to a desired place
- 21/084 . . . Head fittings (for medical purposes A 61 B 1/06) [7]
- 21/088 . . . Clips; Clamps [7]
- 21/092 . . . Suction devices [7]
- 21/096 . . . Magnetic devices [7]
- 21/10 . . Pendants, arms, or standards; Fixing lighting devices to pendants, arms, or standards (adjustable mounting 21/14; construction of posts not peculiar to use with lighting devices E 04 H 12/00)
- 21/104 . . . Pendants [7]
- 21/108 . . . Arms [7]
- 21/112 . . . Fixing lighting devices to pendants (21/002 takes precedence) [7]
- 21/116 . . . Fixing lighting devices to arms or standards (21/002 takes precedence) [7]
- 21/12 . . . capable of being elongated or shortened by the insertion or removal of intermediate pieces
- 21/13 . . Spring-loaded poles fixed at both ends [7]
- 21/14 . . Adjustable mountings
- 21/15 . . . specially adapted for power operation, e.g. by remote control [7]
- 21/16 . . . using wires or cords
- 21/18 operated by springs
- 21/20 operated by weights
- 21/22 . . . telescopic
- 21/24 . . . Lazy-tongs
- 21/26 . . . Pivoted arms
- 21/28 adjustable in more than one plane
- 21/29 employing universal joints
- 21/30 . . . Pivoted housings or frames
- 21/32 . . . Flexible tubes
- 21/34 . . Supporting elements displaceable along a guiding element
- 21/35 . . . with direct electrical contact between the supporting element and electric conductors running along the guiding element [7]
- 21/36 . . Hoisting or lowering devices, e.g. for maintenance (21/14 takes precedence)
- 21/38 . . . with a cable
- 21/40 . . Hand grips [7]
- 23/00** **Arrangement of electric circuit elements in or on lighting devices** (electric circuits *per se* H 05 B 39/00)
- 23/02 . . the elements being transformers or impedances
- 23/04 . . the elements being switches (safety devices 25/00)
- 23/06 . . the elements being coupling devices
- 25/00** **Safety devices structurally associated with lighting devices** (gas-tight or water-tight arrangements 31/00; in general F 16 P; protective circuit arrangements *per se* H 02 H 7/00).
- 25/02 . . coming into action when lighting device is disturbed, dismantled, or broken
- 25/04 . . . breaking the electric circuit
- 25/06 . . . feeding a quenching fluid to the light source
- 25/08 . . . cutting the incandescent filament
- 25/10 . . coming into action when lighting device is overloaded, e.g. thermal switch
- 25/12 . . Flameproof or explosion-proof arrangements
- 27/00** **Cable-stowing arrangements structurally associated with lighting devices, e.g. reels** (storing lengths of cable in general B 65 H)
- 27/02 . . Cable inlets [7]
- 29/00** **Cooling or heating arrangements** (air-treatment systems with air-flow over lighting fixtures F 24 F 3/056; lighting fixtures combined with outlets for air-treatment systems F 24 F 13/078) [1,7]
- 29/02 . . Cooling by forcing air over or around the light source (cooling arrangements structurally associated with electric lamps H 01 J 61/52, H 01 K 1/58) [7]
- 31/00** **Gas-tight or water-tight arrangements**
- 31/02 (covered by 31/00)
- 31/03 . . with provision for venting [7]
- 31/04 . . Provision of filling media (safety devices 25/00; cooling arrangements 29/00)
- 33/00** **Structural combinations of lighting devices with other articles, not otherwise provided for** [1,7]
- Note**
- Attention is drawn to Note (3) following the title of class F 21. [7]
- 35/00** **Candle holders**

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| <p>36/00 Arrangements of mantles or other incandescent bodies on burners (attaching to lamp parts 19/06)</p> <p>36/02 . in ceiling lamps</p> | <p>37/00 Details of lighting devices employing combustion as light source, not otherwise provided for [1,7]</p> <p>37/02 . Special adaptation for protection against draughts [7]</p> |
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F 21 W INDEXING SCHEME ASSOCIATED WITH SUBCLASSES F 21 L, S and V, RELATING TO USES OR APPLICATIONS OF LIGHTING DEVICES OR SYSTEMS [7]

Notes

- (1) This subclass constitutes an indexing scheme associated with subclasses **F 21 L, S and V**, relating to uses or applications of lighting devices or systems. The indexing codes should be unlinked. [7]
- (2) Attention is drawn to Chapter IV of the Guide which sets forth the rules concerning the application and presentation of the different types of indexing code. [7]
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| <p>101:00 Use or application of lighting devices on or in vehicles [7]</p> <p>101:02 . for land vehicles [7]</p> <p>101:023 . . for cycles [7]</p> <p>101:027 . . . for motorcycles [7]</p> <p>101:04 . for water vehicles [7]</p> <p>101:06 . for aircraft [7]</p> <p>101:08 . Interior lights [7]</p> <p>101:10 . Head-, spot- or fog-lights [7]</p> <p>101:12 . Direction indicator lights [7]</p> <p>101:14 . Rear or stop lights [7]</p> <p>111:00 Use or application of lighting devices or systems for signalling, marking or indicating, not provided for in group 101:00 [7]</p> <p>111:02 . for roads, paths or the like [7]</p> <p>111:023 . . for pedestrian walkways [7]</p> <p>111:027 . . for indicating kerbs, steps or stairs [7]</p> <p>111:04 . for waterways [7]</p> <p>111:043 . . for lighthouses or lightships [7]</p> <p>111:047 . . for light-buoys [7]</p> <p>111:06 . for aircraft runways or the like [7]</p> <p>111:08 . for handles or handrails [7]</p> <p>111:10 . for personal use, e.g. hand-held [7]</p> <p>121:00 Use or application of lighting devices or systems for decorative purposes [7]</p> <p>121:02 . for fountains [7]</p> <p>121:04 . for Christmas trees [7]</p> <p>121:06 . for personal wear [7]</p> | <p>131:00 Uses or applications of lighting devices or systems not provided for in groups 101:00 to 121:00 [7]</p> <p>131:10 . Outdoor lighting [7]</p> <p>131:101 . . of tunnels or the like, e.g. under bridges [7]</p> <p>131:103 . . of streets or roads [7]</p> <p>131:105 . . of arenas or the like [7]</p> <p>131:107 . . of the exterior of buildings [7]</p> <p>131:109 . . of gardens [7]</p> <p>131:20 . Lighting for medical use [7]</p> <p>131:202 . . for dentistry [7]</p> <p>131:205 . . for operating theatres [7]</p> <p>131:208 . . for hospital wards [7]</p> <p>131:30 . Lighting for domestic or personal use [7]</p> <p>131:301 . . for furniture [7]</p> <p>131:302 . . for mirrors [7]</p> <p>131:304 . . for pictures [7]</p> <p>131:305 . . for refrigerators [7]</p> <p>131:307 . . for ovens [7]</p> <p>131:308 . . for aquaria [7]</p> <p>131:40 . Lighting for industrial, commercial, recreational or military use [7]</p> <p>131:401 . . for swimming pools [7]</p> <p>131:402 . . for working places [7]</p> <p>131:403 . . for machines [7]</p> <p>131:4035 . . . for sewing machines [7]</p> <p>131:405 . . for shop-windows or displays [7]</p> <p>131:406 . . for theatres, stages or film studios [7]</p> <p>131:407 . . for indoor arenas [7]</p> <p>131:409 . . for furnaces or kilns [7]</p> <p>131:411 . . for inspection of the interior of hollow structures, e.g. vessels, tubes [7]</p> |
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F 21 Y INDEXING SCHEME ASSOCIATED WITH SUBCLASSES F 21 L, S and V, RELATING TO THE FORM OF THE LIGHT SOURCES [7]

Notes

- (1) This subclass constitutes an indexing scheme associated with subclasses **F 21 L, S and V**, relating to the form of the light sources. The indexing codes should be unlinked. [7]
- (2) Attention is drawn to Chapter IV of the Guide which sets forth the rules concerning the application and presentation of the different types of indexing code. [7]

- 101:00** *Point-like light sources* [7]
101:02 . *Miniature, e.g. light emitting diodes (LED)* [7]
- 103:00** *Elongated light sources, e.g. fluorescent tubes* [7]
103:02 . *curved, e.g. ring-shaped* [7]
103:025 . . *U-shaped* [7]

- 105:00** *Planar light sources* [7]
- 111:00** *Light sources of form not covered by preceding groups* [7]
- 113:00** *Combination of light sources* [7]
113:02 . *of different form* [7]