

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F21 LIGHTING (NOTE omitted)

F21V FUNCTIONAL FEATURES OR DETAILS OF LIGHTING DEVICES OR SYSTEMS THEREOF; STRUCTURAL COMBINATIONS OF LIGHTING DEVICES WITH OTHER ARTICLES, NOT OTHERWISE PROVIDED FOR

NOTES

1. Groups [F21V 1/00-F21V 14/00](#) cover aspects related to light emission or distribution. Groups [F21V 15/00-F21V 31/00](#) cover aspects not related to light emission or distribution.
2. Details of non-electric lighting devices or systems are classified in groups [F21V 35/00-F21V 37/00](#) only if a special adaptation related to the use of a non-electric light source is of interest.
3. In this subclass, it is desirable to add the indexing codes of subclasses [F21W](#) and [F21Y](#)

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
[F21V 8/00](#) covered by [G02B 6/00](#)
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

{Aspects related to light emission or distribution}

1/00 Shades for light sources {, i.e. lampshades for table, floor, wall or ceiling lamps}

- 1/02 . Frames
- 1/04 . . rigid ([F21V 1/08](#) takes precedence)
- 1/06 . . foldable or collapsible
- 1/08 . . adjustable
- 1/10 . Rotating shades
- 1/12 . Composite shades {, i.e. shades being made of distinct parts}
- 1/14 . Covers for frames; Frameless shades
- 1/143 . . {The cover being attached to a supporting lampshade frame}
- 1/146 . . {Frameless shades}
- 1/16 . . characterised by the material

WARNING

Group [F21V 1/16](#) is impacted by reclassification into group [F21V 1/17](#).
Groups [F21V 1/16](#) and [F21V 1/17](#) should be considered in order to perform a complete search.

1/17 . . . the material comprising photoluminescent substances

WARNING

Group [F21V 1/17](#) is incomplete pending reclassification of documents from groups [F21V 1/16](#), [F21V 1/20](#), [F21V 1/22](#), and [F21V 9/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/18 . . . the material being paper

1/20 . . . the material being glass

WARNING

Group [F21V 1/20](#) is impacted by reclassification into group [F21V 1/17](#).

Groups [F21V 1/20](#) and [F21V 1/17](#) should be considered in order to perform a complete search.

1/22 . . . the material being plastics

WARNING

Group [F21V 1/22](#) is impacted by reclassification into group [F21V 1/17](#).

Groups [F21V 1/22](#) and [F21V 1/17](#) should be considered in order to perform a complete search.

1/24 . . . the material being metal

1/26 . Manufacturing shades

3/00 **Globes; Bowls; Cover glasses** (with refracting properties [F21V 5/00](#); with reflecting properties [F21V 7/00](#); characterised by cooling arrangements [F21V 29/506](#))

WARNING

Groups [F21V 3/00](#) - [F21V 3/049](#) are incomplete pending reclassification of documents from group [F21L 15/02](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/02 . characterised by the shape
- 3/023 . . {Chinese lanterns; Balloons}
- 3/026 . . . {being inflatable}
- 3/04 . characterised by materials, surface treatments or coatings
- 3/049 . . {Patterns or structured surfaces for diffusing light, e.g. frosted surfaces}
- 3/06 . . characterised by the material
- 3/061 . . . {the material being glass}
- 3/0615 {the material diffusing light, e.g. translucent glass}
- 3/062 . . . {the material being plastics}
- 3/0625 {the material diffusing light, e.g. translucent plastics}
- 3/063 . . . {comprising air or water bubbles, e.g. foamed materials}
- 3/08 . . . the material comprising photoluminescent substances

WARNING

Group [F21V 3/08](#) is incomplete pending reclassification of documents from groups [F21L 15/02](#) and [F21V 9/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/10 . . characterised by coatings
- 3/12 . . . the coatings comprising photoluminescent substances

WARNING

Group [F21V 3/12](#) is incomplete pending reclassification of documents from groups [F21L 15/02](#) and [F21V 9/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

5/00 **Refractors for light sources** (characterised by cooling arrangements [F21V 29/504](#))

WARNING

Groups [F21V 5/00](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/00](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/002 . {using microoptical elements for redirecting or diffusing light}

WARNING

Group [F21V 5/002](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/002](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/003 . . {using holograms}

WARNING

Group [F21V 5/003](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/003](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/004 . . {using microlenses}

WARNING

Group [F21V 5/004](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/004](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/005 . . {using microprisms}

WARNING

Group [F21V 5/005](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/005](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/006 . {applied to portable lighting devices}

WARNING

Group [F21V 5/006](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/006](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/007 . {Array of lenses or refractors for a cluster of light sources, e.g. for arrangement of multiple light sources in one plane ([combination of two or more refractors F21V 5/008](#))}

WARNING

Group [F21V 5/007](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/007](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/008 . {Combination of two or more successive refractors along an optical axis}

WARNING

Group [F21V 5/008](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/008](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/02 . of prismatic shape ([F21V 5/04 takes precedence](#))

WARNING

Group [F21V 5/02](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/02](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/04 . of lens shape

WARNING

Group [F21V 5/04](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/04](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/041 . . {Ball lenses}

WARNING

Group [F21V 5/041](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/041](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/043 . . {the lens having cylindrical faces, e.g. rod lenses, toric lenses}

WARNING

Group [F21V 5/043](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/043](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/045 . . {the lens having discontinuous faces, e.g. Fresnel lenses}

WARNING

Group [F21V 5/045](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/045](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/046 . . {the lens having a rotationally symmetrical shape about an axis for transmitting light in a direction mainly perpendicular to this axis, e.g. ring or annular lens with light source disposed inside the ring}

WARNING

Group [F21V 5/046](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/046](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/048 . . {the lens being a simple lens adapted to cooperate with a point-like source for emitting mainly in one direction and having an axis coincident with the main light transmission direction, e.g. convergent or divergent lenses, plano-concave or plano-convex lenses}

WARNING

Group [F21V 5/048](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/048](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/06 . Hanging lustres for chandeliers

WARNING

Group [F21V 5/06](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/06](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/08 . producing an asymmetric light distribution

WARNING

Group [F21V 5/08](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/08](#) is also impacted by reclassification into group [F21V 5/10](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/10 . comprising photoluminescent material

WARNING

Group [F21V 5/10](#) is incomplete pending reclassification of documents from groups [F21V 5/00](#), [F21V 5/002](#), [F21V 5/003](#), [F21V 5/004](#), [F21V 5/005](#), [F21V 5/006](#), [F21V 5/007](#), [F21V 5/008](#), [F21V 5/02](#), [F21V 5/04](#), [F21V 5/041](#), [F21V 5/043](#), [F21V 5/045](#), [F21V 5/046](#), [F21V 5/048](#), [F21V 5/06](#), [F21V 5/08](#), and [F21V 9/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/00 **Reflectors for light sources** (characterised by cooling arrangements [F21V 29/505](#))

WARNING

Group [F21V 7/00](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0008 . {providing for indirect lighting}
- 7/0016 . . {on lighting devices that also provide for direct lighting, e.g. by means of independent light sources, by splitting of the light beam, by switching between both lighting modes}
- 7/0025 . {Combination of two or more reflectors for a single light source (array of reflectors for a cluster of light sources [F21V 7/0083](#))}
- 7/0033 . . {with successive reflections from one reflector to the next or following}
- 7/0041 . . . {for avoiding direct view of the light source or to prevent dazzling}
- 7/005 . {with an elongated shape to cooperate with linear light sources}
- 7/0058 . {adapted to cooperate with light sources of shapes different from point-like or linear, e.g. circular light sources}

- 7/0066 . {specially adapted to cooperate with point like light sources; specially adapted to cooperate with light sources the shape of which is unspecified ([F21V 7/16](#) - [F21V 7/30](#) take precedence)}

- 7/0075 . {for portable lighting devices}

- 7/0083 . {Array of reflectors for a cluster of light sources, e.g. arrangement of multiple light sources in one plane (combination of two or more reflectors [F21V 7/0025](#))}

- 7/0091 . {using total internal reflection}

- 7/04 . Optical design

- 7/041 . . {with conical or pyramidal surface}

- 7/043 . . {with cylindrical surface}

- 7/045 . . {with spherical surface}

- 7/046 . . {with involute curvature}

- 7/048 . . {with facets structure}

- 7/05 . plane

- 7/06 . . with parabolic curvature

- 7/07 . . with hyperbolic curvature

- 7/08 . . with elliptical curvature

- 7/09 . . with a combination of different curvatures

- 7/10 . Construction

- 7/16 . . with provision for adjusting the curvature

- 7/18 . . with provision for folding or collapsing

- 7/22 . characterised by materials, surface treatments or coatings, e.g. dichroic reflectors

WARNING

Group [F21V 7/22](#) is incomplete pending reclassification of documents from groups [F21V 9/04](#) and [F21L 15/02](#).

Group [F21V 7/22](#) is also impacted by reclassification into groups [F21V 7/24](#), [F21V 7/26](#), [F21V 7/28](#), and [F21V 7/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/24 . . characterised by the material

WARNING

Group [F21V 7/24](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#) and [F21V 9/04](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/26 . . . the material comprising photoluminescent substances

WARNING

Group [F21V 7/26](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#), [F21V 9/04](#), and [F21V 9/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/28 . . characterised by coatings
- WARNING**
- Group [F21V 7/28](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#) and [F21V 9/04](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 7/30 . . . the coatings comprising photoluminescent substances
- WARNING**
- Group [F21V 7/30](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#), [F21V 9/04](#), and [F21V 9/30](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/00 **Elements for modifying spectral properties, polarisation or intensity of the light emitted, e.g. filters** (coloured shades [F21V 1/00](#); elements characterised by cooling arrangements [F21V 29/502](#))
- WARNING**
- Group [F21V 9/00](#) is impacted by reclassification into group [F21V 9/20](#).
- Groups [F21V 9/00](#) and [F21V 9/20](#) should be considered in order to perform a complete search.
- 9/02 . for simulating daylight ([F21V 9/04](#), [F21V 9/06](#) take precedence)
- WARNING**
- Group [F21V 9/02](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
- Groups [F21V 9/30](#) and [F21V 9/02](#) should be considered in order to perform a complete search.
- 9/04 . for filtering out infrared radiation (dichroic reflectors [F21V 7/22](#); using liquid-filled chambers [F21V 9/12](#))
- WARNING**
- Group [F21V 9/04](#) is impacted by reclassification into groups [F21V 7/22](#), [F21V 7/24](#), [F21V 7/26](#), [F21V 7/28](#) and [F21V 7/30](#)
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/06 . for filtering out ultra-violet radiation
- WARNING**
- Group [F21V 9/06](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
- Groups [F21V 9/30](#) and [F21V 9/06](#) should be considered in order to perform a complete search.
- 9/08 . for producing coloured light, e.g. monochromatic; for reducing intensity of light (with provision for controlling the colour [F21V 9/40](#))
- WARNING**
- Group [F21V 9/08](#) is incomplete pending reclassification of documents from groups [F21V 9/30](#) and [F21L 15/04](#).
- Groups [F21V 9/30](#), [F21V 9/08](#), and [F21L 15/04](#) should be considered in order to perform a complete search.
- 9/083 . . {for portable lighting devices}
- WARNING**
- Group [F21V 9/083](#) is incomplete pending reclassification of documents from group [F21L 15/04](#).
- Groups [F21L 15/04](#) and [F21V 9/083](#) should be considered in order to perform a complete search.
- 9/12 . . with liquid-filled chambers
- WARNING**
- Group [F21V 9/12](#) is incomplete pending reclassification of documents from group [F21L 15/04](#).
- Groups [F21L 15/04](#) and [F21V 9/12](#) should be considered in order to perform a complete search.
- 9/14 . for producing polarised light
- 9/20 . Dichroic filters, i.e. devices operating on the principle of wave interference to pass specific ranges of wavelengths while cancelling others
- WARNING**
- Group [F21V 9/20](#) is incomplete pending reclassification of documents from group [F21V 9/00](#).
- Groups [F21V 9/00](#) and [F21V 9/20](#) should be considered in order to perform a complete search.
- 9/30 . Elements containing photoluminescent material distinct from or spaced from the light source (shades [F21V 1/17](#); globes, bowls or cover glasses [F21V 3/08](#), [F21V 3/12](#); refractors [F21V 5/10](#); reflectors [F21V 7/26](#), [F21V 7/30](#); elements with provision for controlling the spectral properties or intensity [F21V 9/40](#))
- WARNING**
- Group [F21V 9/30](#) is impacted by reclassification into groups [F21V 1/17](#), [F21V 3/08](#), [F21V 3/12](#), [F21V 5/10](#), [F21V 7/26](#), [F21V 7/30](#), [F21V 9/02](#), [F21V 9/06](#), [F21V 9/08](#), [F21V 9/32](#), [F21V 9/35](#), [F21V 9/38](#), [F21V 9/40](#), [F21V 9/45](#), [F21V 13/08](#), and [F21V 13/14](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 9/32 . . characterised by the arrangement of the photoluminescent material
- WARNING**
- Group [F21V 9/32](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
- Groups [F21V 9/30](#) and [F21V 9/32](#) should be considered in order to perform a complete search.
- 9/35 . . . at focal points, e.g. of refractors, lenses, reflectors or arrays of light sources
- WARNING**
- Group [F21V 9/35](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
- Groups [F21V 9/30](#) and [F21V 9/35](#) should be considered in order to perform a complete search.
- 9/38 . . Combination of two or more photoluminescent elements of different materials
- WARNING**
- Group [F21V 9/38](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
- Groups [F21V 9/30](#) and [F21V 9/38](#) should be considered in order to perform a complete search.
- 9/40 . . with provision for controlling spectral properties, e.g. colour, or intensity
- WARNING**
- Group [F21V 9/40](#) is incomplete pending reclassification of documents from groups [F21L 15/04](#), [F21V 14/00](#) and [F21V 9/30](#).
- Group [F21V 9/40](#) is also impacted by reclassification into group [F21V 9/45](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/45 . . by adjustment of photoluminescent elements
- WARNING**
- Group [F21V 9/45](#) is incomplete pending reclassification of documents from groups [F21V 9/30](#), [F21V 9/40](#), and [F21V 14/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 11/00 Screens not covered by groups [F21V 1/00](#), [F21V 3/00](#), [F21V 7/00](#) or [F21V 9/00](#) (characterised by cooling arrangements [F21V 29/502](#))**
- WARNING**
- Groups [F21V 11/00](#) - [F21V 11/186](#) are incomplete pending reclassification of documents from group [F21L 15/04](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 11/02 . . using parallel laminae or strips, e.g. of Venetian-blind type ([F21V 11/06](#) takes precedence)
- 11/04 . . adjustable
- 11/06 . . using crossed laminae or strips {, e.g. grid-shaped louvers}; using lattices or honeycombs
- 11/065 . . {adjustable}
- 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
- 11/18 . . movable, e.g. flaps, slides
- 11/183 . . . {pivotable}
- 11/186 . . . {slidable}
- 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 [F21V 1/00](#) - [F21V 11/00](#) (controlling the distribution of the light emitted by adjustment of elements [F21V 14/00](#))**
- WARNING**
- Groups [F21V 13/00](#) - [F21V 13/14](#) are incomplete pending reclassification of documents from group [F21L 15/02](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/02 . . Combinations of only two kinds of elements
- WARNING**
- Group [F21V 13/02](#) is incomplete pending reclassification of documents from [F21L 15/02](#).
- Group [F21V 13/02](#) is also impacted by reclassification into group [F21V 13/08](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/04 . . the elements being reflectors and refractors {(for vehicle rear lights [F21S 43/40](#))}
- 13/045 . . . {for portable lighting devices}
- 13/06 . . . a reflector being rotatable
- 13/08 . . the elements being filters or photoluminescent elements and reflectors
- WARNING**
- Group [F21V 13/08](#) is incomplete pending reclassification of documents from groups [F21L 15/02](#), [F21V 9/30](#) and [F21V 13/02](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/10 . . the elements being reflectors and screens

- 13/12 . Combinations of only three kinds of elements

WARNING

Group [F21V 13/12](#) is incomplete pending reclassification of documents from [F21L 15/02](#).

Group [F21V 13/12](#) is also impacted by reclassification into group [F21V 13/14](#)

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/14 . . the elements being filters or photoluminescent elements, reflectors and refractors

WARNING

Group [F21V 13/14](#) is incomplete pending reclassification of documents from groups [F21L 15/02](#), [F21V 9/30](#) and [F21V 13/12](#)

All groups listed in this Warning should be considered in order to perform a complete search.

- 14/00 Controlling the distribution of the light emitted by adjustment of elements** (reflectors with provision for adjusting the curvature [F21V 7/16](#); light filters or the like with provision for controlling the colour or intensity [F21V 9/40](#); screens using adjustable parallel laminae or strips [F21V 11/04](#); screens using iris-type diaphragms [F21V 11/10](#); screens using movable sheets without apertures [F21V 11/18](#); adjustable mountings for lighting devices [F21V 21/14](#))

WARNING

Group [F21V 14/00](#) is impacted by reclassification into groups [F21V 9/40](#) and [F21V 9/45](#).

Groups [F21V 14/00](#), [F21V 9/40](#), and [F21V 9/45](#) should be considered in order to perform a complete search.

- 14/003 . {by interposition of elements with electrically controlled variable light transmissivity, e.g. liquid crystal elements or electrochromic devices}
- 14/006 . {by means of optical elements, e.g. films, filters or screens, being rolled up around a roller}
- 14/02 . by movement of light sources {(in vehicle head lamps [F21S 41/657](#))}
- 14/025 . . {in portable lighting devices}

WARNING

Group [F21V 14/025](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 14/04 . by movement of reflectors {(in vehicle head lamps [F21S 41/675](#))}

- 14/045 . . {in portable lighting devices}

WARNING

Group [F21V 14/045](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 14/06 . by movement of refractors {(in vehicle head lamps [F21S 41/635](#))}

- 14/065 . . {in portable lighting devices}

WARNING

Group [F21V 14/065](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 14/08 . by movement of the screens {or filters}

- 14/085 . . {in portable lighting devices}

WARNING

Group [F21V 14/085](#) is incomplete pending reclassification of documents from group [F21L 15/04](#).

All groups listed in this Warning should be considered in order to perform a complete search.

{Aspects not related to light emission or distribution, e.g. fittings}

15/00 Protecting lighting devices from damage

(protection from thermal damage [F21V 29/00](#); gas-tight or water-tight arrangements [F21V 31/00](#))

- 15/005 . {Measures against vandalism, stealing or tampering ([F21V 15/02](#), [F21V 15/04](#) take precedence)}
- 15/01 . Housings, e.g. material or assembling of housing parts ([F21V 15/02](#) takes precedence {housings forming signs or letters [G09F 13/04](#)})
- 15/012 . . {Housings with variable shape or dimensions, e.g. by means of elastically deformable materials or by movement of parts forming telescopic extensions of the housing body}
- 15/013 . . {the housing being an extrusion}
- 15/015 . . Devices for covering joints between adjacent lighting devices; End coverings
- 15/02 . Cages
- 15/04 . Resilient mountings, e.g. shock absorbers (in general [F16F 15/04](#) {shock absorbing devices of vehicle headlamp housings [B60Q 1/0491](#)})

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 [F21V 19/00](#))

- 17/002 . {with provision for interchangeability, i.e. component parts being especially adapted to be replaced by another part with the same or a different function ([F21V 17/10](#) takes precedence)}
- 17/005 . {with keying means, i.e. for enabling the assembling of component parts in distinctive positions, e.g. for preventing wrong mounting}

- 17/007 . . {with provision for shipment or storage}
- 17/02 . . with provision for adjustment
([F21V 17/04](#) - [F21V 17/08](#) take precedence)
- 17/04 . . the fastening being onto or by the light source
- 17/06 . . the fastening being onto or by the lampholder
- 17/08 . . onto the supporting or suspending arrangements of the lighting device, e.g. power cords, standards
- 17/10 . . characterised by specific fastening means or way of fastening ([F21V 17/02](#) - [F21V 17/08](#) take precedence)
- 17/101 . . {permanently, e.g. welding, gluing or riveting}
- 17/102 . . {using gravity or suction}
- 17/104 . . {using feather joints, e.g. tongues and grooves, with or without friction}
- 17/105 . . {using magnets}
- 17/107 . . {using hinge joints}
- 17/108 . . {using hook and loop-type fasteners}
- 17/12 . . by screwing
- 17/14 . . Bayonet-type fastening
- 17/16 . . by deformation of parts; Snap action mounting
- 17/162 . . . {the parts being subjected to traction or compression, e.g. coil springs}
- 17/164 . . . {the parts being subjected to bending, e.g. snap joints}
- 17/166 . . . {the parts being subjected to torsion, e.g. spiral springs}
- 17/168 . . . {the parts being resilient rings acting substantially isotropically, e.g. split rings}
- 17/18 . . Latch-type fastening, e.g. with rotary action
- 17/20 . . by toggle-action levers

19/00 Fastening of light sources or lamp holders

(fastening electric light source solely by the coupling device [H01R 33/00](#) {; special means for attaching candle to candle holder [F21V 35/003](#)})

WARNING

Groups [F21V 19/00](#) - [F21V 19/04](#) are incomplete pending reclassification of documents from group [F21L 15/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 19/0005 . . {of sources having contact pins, wires or blades, e.g. pinch sealed lamp ([F21V 19/001](#) takes precedence)}
- 19/001 . . {the light sources being semiconductor devices, e.g. LEDs}
- 19/0015 . . {Fastening arrangements intended to retain light sources}
- 19/002 . . . {the fastening means engaging the encapsulation or the packaging of the semiconductor device}
- 19/0025 . . . {the fastening means engaging the conductors of the light source, i.e. providing simultaneous fastening of the light sources and their electric connections}
- 19/003 . . {Fastening of light source holders, e.g. of circuit boards or substrates holding light sources}
- 19/0035 . . . {the fastening means being capable of simultaneously attaching of an other part, e.g. a housing portion or an optical component}
- 19/004 . . . {by deformation of parts or snap action mountings, e.g. using clips}
- 19/0045 . . . {by tongue and groove connections, e.g. dovetail interlocking means fixed by sliding}

- 19/005 . . . {by permanent fixing means, e.g. gluing, riveting or embedding in a potting compound}
- 19/0055 . . . {by screwing}
- 19/006 . . {of point-like light sources, e.g. incandescent or halogen lamps, with screw-threaded or bayonet base (of sources having contact pins, wires or blades [F21V 19/0005](#); of LEDs or sources mounted on printed-circuit board [F21V 19/001](#))}
- 19/0065 . . {at least one conductive element acting as a support means, e.g. spring-mounted contact plate in a bayonet base}
- 19/007 . . {the support means engaging the vessel of the source}
- 19/0075 . . {of tubular light sources, e.g. ring-shaped fluorescent light sources}
- 19/008 . . {of straight tubular light sources, e.g. straight fluorescent tubes, soffit lamps}
- 19/0085 . . . {at least one conductive element acting as a support means, e.g. resilient contact blades, piston-like contact}
- 19/009 . . . {the support means engaging the vessel of the source}
- 19/0095 . . {of U-shaped tubular light sources, e.g. compact fluorescent tubes}
- 19/02 . . with provision for adjustment, e.g. for focusing
- 19/04 . . with provision for changing light source, e.g. turret {(auxiliary devices for cleaning, placing, or removing incandescent lamps [H01K 3/32](#), fluorescent lamps [H01J 9/006](#))}
- 19/042 . . {the light source being a semiconductor, e.g. an LED}

WARNING

Group [F21V 19/042](#) is no longer used for the classification of documents as of August 1, 2016. The content of this group is being reclassified into groups [F21K 9/00](#), [F21K 9/20](#), [F21K 9/23](#), [F21K 9/232](#), [F21K 9/233](#), [F21K 9/235](#), [F21K 9/237](#), [F21K 9/238](#), [F21K 9/27](#), [F21K 9/272](#), [F21K 9/275](#), [F21K 9/278](#), [F21K 9/60](#), [F21K 9/61](#), [F21K 9/62](#), [F21K 9/64](#), [F21K 9/65](#), [F21K 9/66](#), [F21K 9/68](#), [F21K 9/69](#), [F21K 9/90](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 19/045 . . {the light source being a semiconductor mounted on a holder, e.g. a circuit board}
(Frozen)

WARNING

Group [F21V 19/045](#) is no longer used for the classification of documents as of August 1, 2016. The content of this group is being reclassified into groups [F21K 9/00](#), [F21K 9/20](#), [F21K 9/23](#), [F21K 9/232](#), [F21K 9/233](#), [F21K 9/235](#), [F21K 9/237](#), [F21K 9/238](#), [F21K 9/27](#), [F21K 9/272](#), [F21K 9/275](#), [F21K 9/278](#), [F21K 9/60](#), [F21K 9/61](#), [F21K 9/62](#), [F21K 9/64](#), [F21K 9/65](#), [F21K 9/66](#), [F21K 9/68](#), [F21K 9/69](#), [F21K 9/90](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 19/047 . . {by using spare light sources comprised in or attached to the lighting device and being intended to replace a defect light source by manual mounting}
- 19/06 . Fastening incandescent mantles or other incandescent bodies to lamp parts; Suspension devices for incandescent mantles or other incandescent bodies ([arrangements of mantles or other incandescent bodies on burners F21V 36/00](#))
- 21/00 Supporting, suspending, or attaching arrangements for lighting devices ([F21V 17/00](#), [F21V 19/00](#) take precedence; arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general [B60Q](#), stands for supporting apparatus or articles in general [F16M 11/00](#)); Hand grips**
- 21/002 . making direct electrical contact, e.g. by piercing ([F21V 21/35](#) takes precedence)
- 21/005 . for several lighting devices in an end-to-end arrangement, i.e. light tracks
- 21/008 . Suspending from a cable or suspension line
- 21/02 . Wall, ceiling, or floor bases; Fixing pendants or arms to the bases ([F21V 21/08](#) takes precedence; [bases for movable standing lamps F21V 21/06](#))
- 21/025 . . {Elongated bases having a U-shaped cross section}
- 21/03 . . Ceiling bases, e.g. ceiling roses ([F21V 21/04](#) takes precedence)
- 21/04 . . Recessed bases
- 21/041 . . . {Mounting arrangements specially adapted for false ceiling panels or partition walls made of plates ([F21V 21/047](#) takes precedence)}
- 21/042 {using clamping means, e.g. for clamping with panel or wall}
- 21/043 {actuated by screwing}
- 21/044 {with elastically deformable elements, e.g. spring tongues}
- 21/045 {being tensioned by translation of parts, e.g. by pushing or pulling}
- 21/046 {being tensioned by rotation of parts}
- 21/047 . . . {Mounting arrangements with fastening means engaging the inner surface of a hole in a ceiling or wall, e.g. for solid walls or for blind holes}
- 21/048 . . . {Mounting arrangements for fastening lighting devices to false ceiling frameworks}

- 21/049 . . . {Mounting arrangements for attaching lighting devices to the ceiling, the lighting devices being recessed in a false or stretched ceiling}
- 21/06 . Bases for movable standing lamps; Fixing standards to the bases ([F21V 21/08](#) takes precedence)
- 21/08 . Devices for easy attachment to any desired place, e.g. clip, clamp, magnet

WARNING

Groups [F21V 21/08](#) - [F21V 21/0965](#) are incomplete pending reclassification of documents from groups [F21L 15/08](#), [F21L 15/10](#) and [F21L 15/14](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 21/0808 . . {Adhesive means}
- 21/0816 . . {Strap fasteners, e.g. fasteners with a buckle}
- 21/0824 . . {Ground spikes}
- 21/0832 . . {Hook and loop-type fasteners}
- 21/084 . . Head fittings
- 21/088 . . Clips; Clamps
- 21/0885 . . . {for portable lighting devices}
- 21/092 . . Suction devices
- 21/0925 . . . {for portable lighting devices}
- 21/096 . . Magnetic devices
- 21/0965 . . . {for portable lighting devices}
- 21/10 . Pendants, arms, or standards; Fixing lighting devices to pendants, arms, or standards ([adjustable mounting F21V 21/14](#); [construction of posts not peculiar to use with lighting devices E04H 12/00](#))
- 21/104 . . Pendants
- 21/108 . . Arms
- 21/112 . . Fixing lighting devices to pendants ([F21V 21/002](#) takes precedence)
- 21/116 . . Fixing lighting devices to arms or standards ([F21V 21/002](#) takes precedence)
- 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
- 21/14 . Adjustable mountings

WARNING

Groups [F21V 21/14](#) - [F21V 21/32](#) are incomplete pending reclassification of documents from group [F21L 15/08](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 21/145 . . {for portable lighting devices}
- 21/15 . . specially adapted for power operation, e.g. by remote control
- 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 [{\(telescopic mounting of lighting devices F21V 21/22\)}](#)
- 21/35 . . with direct electrical contact between the supporting element and electric conductors running along the guiding element
- 21/36 . Hoisting or lowering devices, e.g. for maintenance
- 21/38 . . with a cable
- 21/40 . Hand grips
- 21/403 . . {for operation or dentist lamps}
- 21/406 . . {for portable lighting devices}

23/00 Arrangement of electric circuit elements in or on lighting devices [{\(characterised by cooling arrangements F21V 29/508\)}](#)

WARNING

Groups [F21V 23/00](#) - [F21V 23/06](#) are incomplete pending reclassification of documents from group [F21L 15/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 23/001 . {the elements being electrical wires or cables}
- 23/002 . . {Arrangements of cables or conductors inside a lighting device, e.g. means for guiding along parts of the housing or in a pivoting arm}
- 23/003 . {the elements being electronics drivers or controllers for operating the light source, e.g. for a LED array}

WARNING

Group [F21V 23/003](#) is impacted by reclassification into groups [F21K 9/238](#) and [F21K 9/278](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 23/004 . . {arranged on a substrate, e.g. a printed circuit board}

WARNING

Group [F21V 23/004](#) is impacted by reclassification into groups [F21K 9/238](#) and [F21K 9/278](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 23/005 . . . {the substrate is supporting also the light source}

WARNING

Group [F21V 23/005](#) is impacted by reclassification into groups [F21K 9/238](#) and [F21K 9/278](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 23/006 . . . {the substrate being distinct from the light source holder}

WARNING

Group [F21V 23/006](#) is impacted by reclassification into groups [F21K 9/238](#) and [F21K 9/278](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 23/007 . . {enclosed in a casing}
- 23/008 . . . {the casing being outside the housing of the lighting device}
- 23/009 . . . {the casing being inside the housing of the lighting device}
- 23/02 . the elements being transformers, impedances {or power supply units, e.g. a transformer with a rectifier}
- 23/023 . . {Power supplies in a casing ([F21V 23/003](#) takes precedence)}
- 23/026 . . {Fastening of transformers or ballasts}
- 23/04 . the elements being switches ([safety devices F21V 25/00](#))
- 23/0407 . . {for flashing}
- 23/0414 . . {specially adapted to be used with portable lighting devices}
- 23/0421 . . . {the switch being part of, or disposed on the tail cap portion thereof}
- 23/0428 . . . {the switch being part of, or disposed on the lamp head portion thereof}
- 23/0435 . . {activated by remote control means}
- 23/0442 . . {activated by means of a sensor, e.g. motion or photodetectors}
- 23/045 . . . {the sensor receiving a signal from a remote controller}
- 23/0457 . . . {the sensor sensing the operating status of the lighting device, e.g. to detect failure of a light source or to provide feedback to the device}
- 23/0464 . . . {the sensor sensing the level of ambient illumination, e.g. dawn or dusk sensors}
- 23/0471 . . . {the sensor detecting the proximity, the presence or the movement of an object or a person}
- 23/0478 {by means of an image recording device, e.g. a camera}
- 23/0485 . . . {the sensor sensing the physical interaction between a user and certain areas located on the lighting device, e.g. a touch sensor}
- 23/0492 . . . {the sensor detecting a change in orientation, a movement or an acceleration of the lighting device, e.g. a tilt switch}
- 23/06 . the elements being coupling devices {, e.g. connectors}

25/00 Safety devices structurally associated with lighting devices (gas- tight or water-tight arrangements [F21V 31/00](#); in general [F16P](#); protective circuit arrangements per se [H02H 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	<ul style="list-style-type: none"> coming into action when lighting device is overloaded, e.g. thermal switch 	29/71	<ul style="list-style-type: none"> using a combination of separate elements interconnected by heat-conducting means, e.g. with heat pipes or thermally conductive bars between separate heat-sink elements
25/12	<ul style="list-style-type: none"> Flameproof or explosion-proof arrangements 	29/713	<ul style="list-style-type: none"> {in direct thermal and mechanical contact of each other to form a single system}
25/125	<ul style="list-style-type: none"> {using intumescent material, i.e. using materials which swells up as a result of heat exposure} 	29/717	<ul style="list-style-type: none"> {using split or remote units thermally interconnected, e.g. by thermally conductive bars or heat pipes}
27/00	Cable-stowing arrangements structurally associated with lighting devices, e.g. reels (storing lengths of cable in general B65H (the lighting devices being vehicle headlamps F21S 41/192; the lighting devices being vehicle lights F21S 43/195))	29/73	<ul style="list-style-type: none"> the elements being adjustable with respect to each other, e.g. hinged
27/005	<ul style="list-style-type: none"> {for portable lighting devices} 	29/74	<ul style="list-style-type: none"> with fins or blades
27/02	<ul style="list-style-type: none"> Cable inlets 	29/745	<ul style="list-style-type: none"> {the fins or blades being planar and inclined with respect to the joining surface from which the fins or blades extend}
29/00	Protecting lighting devices from thermal damage; Cooling or heating arrangements specially adapted for lighting devices or systems (lighting fixtures combined with outlets for air-treatment systems F24F 13/078)	29/75	<ul style="list-style-type: none"> with fins or blades having different shapes, thicknesses or spacing
29/10	<ul style="list-style-type: none"> Arrangement of heat-generating components to reduce thermal damage, e.g. by distancing heat-generating components from other components to be protected 	29/76	<ul style="list-style-type: none"> with essentially identical parallel planar fins or blades, e.g. with comb-like cross-section
29/15	<ul style="list-style-type: none"> Thermal insulation 	29/763	<ul style="list-style-type: none"> {the planes containing the fins or blades having the direction of the light emitting axis}
29/50	<ul style="list-style-type: none"> Cooling arrangements (air-treatment systems dissipating or using the heat of lighting fixtures F24F 3/056) 	29/767	<ul style="list-style-type: none"> {the planes containing the fins or blades having directions perpendicular to the light emitting axis}
29/502	<ul style="list-style-type: none"> characterised by the adaptation for cooling of specific components 	29/77	<ul style="list-style-type: none"> with essentially identical diverging planar fins or blades, e.g. with fan-like or star-like cross-section
29/503	<ul style="list-style-type: none"> of light sources (cooling arrangements structurally associated with gas-discharge or vapour-discharge lamps H01J 61/52; cooling arrangements structurally associated with electric incandescent lamps H01K 1/58; cooling arrangements structurally associated with light-emitting diodes H01L 33/64) 	29/773	<ul style="list-style-type: none"> {the planes containing the fins or blades having the direction of the light emitting axis}
29/504	<ul style="list-style-type: none"> of refractors 	29/777	<ul style="list-style-type: none"> {the planes containing the fins or blades having directions perpendicular to the light emitting axis}
29/505	<ul style="list-style-type: none"> of reflectors 	29/78	<ul style="list-style-type: none"> with helically or spirally arranged fins or blades
29/506	<ul style="list-style-type: none"> of globes, bowls or cover glasses 	29/80	<ul style="list-style-type: none"> with pins or wires
29/507	<ul style="list-style-type: none"> of means for protecting lighting devices from damage, e.g. housings 	29/81	<ul style="list-style-type: none"> with pins or wires having different shapes, lengths or spacing
29/508	<ul style="list-style-type: none"> of electrical circuits 	29/83	<ul style="list-style-type: none"> the elements having apertures, ducts or channels, e.g. heat radiation holes
29/51	<ul style="list-style-type: none"> using condensation or evaporation of a fluid, e.g. heat pipes 	29/85	<ul style="list-style-type: none"> characterised by the material (liquid coolants F21V 29/56)
29/52	<ul style="list-style-type: none"> electrically powered, e.g. refrigeration systems 	29/86	<ul style="list-style-type: none"> {Ceramics or glass}
29/54	<ul style="list-style-type: none"> using thermoelectric means, e.g. Peltier elements 	29/87	<ul style="list-style-type: none"> Organic material, e.g. filled polymer composites; Thermo-conductive additives or coatings therefor
29/56	<ul style="list-style-type: none"> using liquid coolants (F21V 29/51 takes precedence) 	29/89	<ul style="list-style-type: none"> Metals
29/57	<ul style="list-style-type: none"> characterised by control arrangements 	29/90	<ul style="list-style-type: none"> Heating arrangements
29/58	<ul style="list-style-type: none"> characterised by the coolants 	31/00	Gas-tight or water-tight arrangements
29/59	<ul style="list-style-type: none"> {with forced flow of the coolant} 	31/005	<ul style="list-style-type: none"> {Sealing arrangements therefor}
29/60	<ul style="list-style-type: none"> characterised by the use of a forced flow of gas, e.g. air 	31/03	<ul style="list-style-type: none"> with provision for venting {(for vehicle head lights F21S 45/33; for vehicle rear lights F21S 41/192)}
29/61	<ul style="list-style-type: none"> characterised by control arrangements 	31/04	<ul style="list-style-type: none"> Provision of filling media
29/63	<ul style="list-style-type: none"> using electrically-powered vibrating means; using ionic wind 	33/00	Structural combinations of lighting devices with other articles, not otherwise provided for
29/65	<ul style="list-style-type: none"> the gas flowing in a closed circuit 	33/0004	<ul style="list-style-type: none"> {Personal or domestic articles}
29/67	<ul style="list-style-type: none"> characterised by the arrangement of fans 	33/0008	<ul style="list-style-type: none"> {Clothing or clothing accessories, e.g. scarfs, gloves or belts}
29/673	<ul style="list-style-type: none"> {the fans being used for intake} 	33/0012	<ul style="list-style-type: none"> {Furniture (hospital beds F21V 33/0072)}
29/677	<ul style="list-style-type: none"> {the fans being used for discharging} 	33/0016	<ul style="list-style-type: none"> {Furnishing for windows and doors (sunshades F21V 33/006)}
29/70	<ul style="list-style-type: none"> characterised by passive heat-dissipating elements, e.g. heat-sinks 	33/002	<ul style="list-style-type: none"> {Racks for compact discs or the like}
		33/0024	<ul style="list-style-type: none"> {Household or table equipment}

- 33/0028 . . . {Decorative household equipment, e.g. plant holders or food dummies}
- 33/0032 {Paintings, pictures or photographs; Frames therefor}
- 33/0036 . . . {Table-ware or table equipment, e.g. dishes, cutlery or trays}
- 33/004 . . {Sanitary equipment, e.g. mirrors, showers, toilet seats or paper dispensers}
- 33/0044 . . {Household appliances, e.g. washing machines or vacuum cleaners}
- 33/0048 . . {Office articles, e.g. bookmarks, desk lamps with drawers, stands for books or music scores}
- 33/0052 . . {Audio or video equipment, e.g. televisions, telephones, cameras or computers; Remote control devices therefor}
- 33/0056 . . . {Audio equipment, e.g. music instruments, radios or speakers}
- 33/006 . {General building constructions or finishing work for buildings, e.g. roofs, gutters, stairs or floors; Garden equipment; Sunshades or parasols}
- 33/0064 . {Health, life-saving or fire-fighting equipment}
- 33/0068 . . {Medical equipment}
- 33/0072 . . . {Hospital beds}
- 33/0076 . . {Safety or security signalisation, e.g. smoke or burglar alarms, earthquake detectors; Self-defence devices}
- 33/008 . {Leisure, hobby or sport articles, e.g. toys, games or first-aid kits; Hand tools; Toolboxes}
- 33/0084 . . {Hand tools; Toolboxes}
- 33/0088 . {Ventilating systems (lighting fixtures combined with outlets for air treatment systems [F24F 13/078](#))}
- 33/0092 . . {with heating or cooling devices}
- 33/0096 . . {Fans, e.g. ceiling fans (forced cooling of lighting devices characterised by the arrangement of fans [F21V 29/67](#))}

35/00 Candle holders**WARNING**

Groups [F21V 35/00](#) - [F21V 35/006](#) are incomplete pending reclassification of documents from group [F21L 25/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 35/003 . {Special means for attaching the candle to the candle holder}
- 35/006 . {Drop catchers; Shade holders}

36/00 Arrangements of mantles or other incandescent bodies on burners

- 36/02 . in ceiling lamps

37/00 Details of lighting devices employing combustion as light source, not otherwise provided for; Night lamps; Votive lamps**WARNING**

Groups [F21V 37/00](#) - [F21V 37/02](#) are incomplete pending reclassification of documents from group [F21L 25/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 37/0004 . {using liquid fuel}
- 37/0008 . . {Fuel containers}

- 37/0012 . . . {Filling or level checking}
- 37/0016 . . . {Fastening of the container to other parts of the lamp}
- 37/002 . . {Wicks}
- 37/0025 . . . {vegetal ([F21V 37/0033](#) takes precedence)}
- 37/0029 . . . {mineral ([F21V 37/0033](#) takes precedence)}
- 37/0033 . . . {combination of vegetal and mineral}
- 37/0037 . . . {Cleaning devices}
- 37/0041 . . {Fuel supply}
- 37/0045 . . . {using hydrostatic pressure or weights}
- 37/005 . . . {using air or gas pressure}
- 37/0054 . . . {Controlling means, e.g. floaters}
- 37/0058 . . {Reflectors, cover glasses, chimneys; Smoke-removing devices; Preheaters}
- 37/0062 . . . {Reflectors}
- 37/0066 . . . {Chimneys}
- 37/007 . . . {Globs}
- 37/0075 . . {Fastening or safety devices for reflectors, cover glasses or chimneys}
- 37/0079 . . . {Fastening of chimneys ([F21V 37/0087](#) takes precedence)}
- 37/0083 . . . {Fastening of cover glasses ([F21V 37/0087](#) takes precedence)}
- 37/0087 . . . {Devices for lifting chimneys or cover glasses}
- 37/0091 . . . {Protections against shocks}
- 37/0095 . {Night lamps; Votive lamps}
- 37/02 . Special adaptation for protection against draughts {for lanterns [F21L 19/006](#); Draft controllers}

99/00 Subject matter not provided for in other groups of this subclass**2200/00 Use of light guides, e.g. fibre optic devices, in lighting devices or systems**

- 2200/10 . of light guides of the optical fibres type
- 2200/13 . . the light being emitted at the end of the guide
- 2200/15 . . the light being emitted along at least a portion of the outer surface of the guide
- 2200/17 . . characterised by the admission of light into the guide
- 2200/20 . of light guides of a generally planar shape
- 2200/30 . of light guides doped with fluorescent agents
- 2200/40 . of hollow light guides