

## F21V

### DETAILS OF LIGHTING DEVICES, OF GENERAL APPLICATION

#### Definition statement

*This subclass/group covers:*

Details of parts involved in light emission or distribution

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

Special adaptation related to the use of a non-electric light sources

#### References relevant to classification in this subclass

*This subclass/group does not cover:*

Details of light guides adapted for lighting devices or systems	<a href="#">G02B 6/0001</a>
---	-----------------------------

#### Special rules of classification within this subclass

"Invention information" is identified with ECLA symbols, whereas "additional information" is identified with Indexing Code symbols

## F21V 1/00

**Shades for light sources [N: i.e. lampshades for table, floor, wall or ceiling lamps]**

## F21V 1/04

**rigid ([F21V 1/08](#) takes precedence)**

#### References relevant to classification in this group

*This subclass/group does not cover:*

Adjustable frame of a shade for light source	<a href="#">F21V 1/08</a>
--	---------------------------

## F21V 1/06

**foldable or collapsible**

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Fastening of component parts of lighting devices, e.g. shades, globes, refractors, reflectors, filters, screens, grids or protective cages, with provision for shipment or storage	<a href="#">F21V 17/007</a>
--	-----------------------------

## F21V 1/08

adjustable

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Changing the characteristics or distribution of the light emitted by adjustment of parts	<a href="#">F21V 14/00</a>
--	----------------------------

## F21V 1/10

Rotating shades

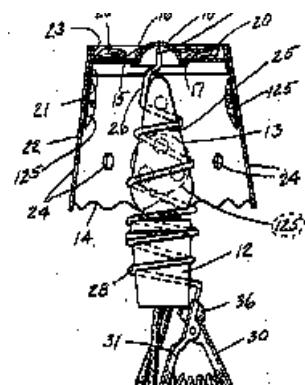
## Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

Example: US1972687

Rotating glass cover or globe or shade or fins due to heat of a light source



## F21V 1/14

### Covers for frames; Frameless shades

#### Definition statement

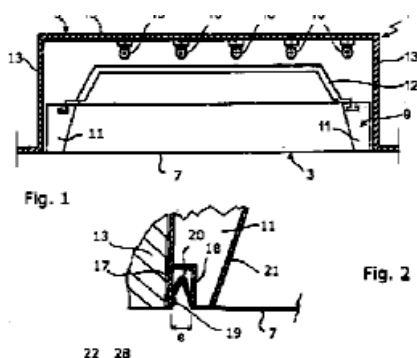
*This subclass/group covers:*

Shades characterised by the material

Stretched fly attached to a ceiling frame

Example: FR2952087

A stretched fly attached to a ceiling frame



## F21V 3/00

### Globes; Bowls; Cover glasses (with refracting properties [F21V 5/00](#); with reflecting properties [F21V 7/00](#))

#### Definition statement

*This subclass/group covers:*

Globes for street lighting devices

Glass cover for automotive vehicles

Globes, bowls, cover glasses characterised by their shapes

Globes, bowls, cover glasses characterised by material, coatings or surface treatments

#### References relevant to classification in this group

*This subclass/group does not cover:*

With refracting properties	<a href="#">F21V 5/00</a>
With reflecting properties	<a href="#">F21V 7/00</a>

---

---

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Transparent cover plates for vehicle headlamps and rear lamps	<a href="#">F21S 48/12</a> , <a href="#">F21S 48/22</a>
---	---

## F21V 5/00

**Refractors for light sources [N: (for vehicle rear lights [F21S 48/2212](#); for vehicle head lamps [F21S 48/1225](#) )]**

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Producing optical elements, e.g. lenses, prisms (grinding or polishing of optical elements <a href="#">B24B</a> ; constructional form of optical elements <a href="#">G02B</a> ; optical parts of spectacles <a href="#">G02C 7/00</a> )	<a href="#">B29D 11/00</a>
Refractors for vehicle headlamps and rear lamps	<a href="#">F21S 48/12</a> , <a href="#">F21S 48/22</a>
Combinations of only two kinds of elements being reflectors and refractors	<a href="#">F21V 13/04</a>
Combinations of only three kinds of elements being reflectors, refractors, and filters	<a href="#">F21V 13/14</a>
Changing the characteristics or distribution of the light emitted by adjustment of parts by movement of refractors	<a href="#">F21V 14/06</a>
Details of kinds concerned with light emission or distribution solely applicable to the electric portable lighting devices	<a href="#">F21L 15/02</a>
Optical elements	<a href="#">G02B</a>

---

---

## F21V 5/007

[N: 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](#) )]

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Simple or compound lenses; Arrays	<a href="#">G02B 3/0006</a>
-----------------------------------	-----------------------------

## F21V 5/02

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

### References relevant to classification in this group

This subclass/group does not cover:

Refractor of lens shape	<a href="#">F21V 5/04</a>
-------------------------	---------------------------

## F21V 5/04

of lens shape

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Simple or compound lenses	<a href="#">G02B 3/00</a> <b>G02B17/09F</b>
Optical system adapting the beam shape of a semiconductor light source such as a laser diode or an LED, e.g. for efficiently coupling into optical fibres	<b>G02B17/09F</b>

## F21V 5/045

[N: the lens having discontinuous faces, e.g. Fresnel lenses]

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Simple or compound lenses with non-spherical faces with discontinuous faces, e.g. Fresnel lens	<a href="#">G02B 3/08</a>
--	---------------------------

## F21V 5/046

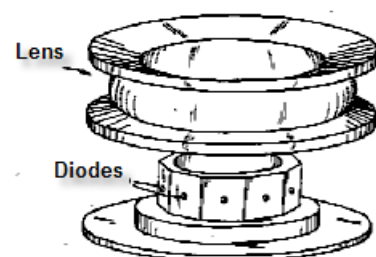
[N: the lens having a rotationally symmetrical shape about an axis for transmitting light in a direction mainly perpendicular to this axis, e.g. ring or annular lens with light source disposed inside the ring]

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

Example: WO0186198



## F21V 5/048

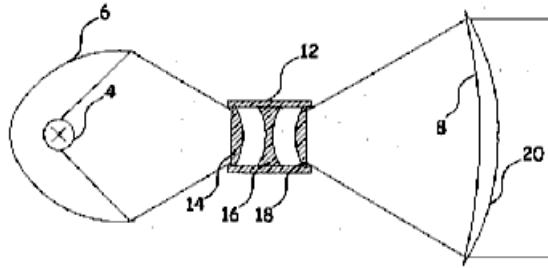
[N:the lens being a simple lens adapted to cooperate with a point-like source for emitting mainly in one direction and having an axis coincident with the main light transmission direction, e.g. convergent or divergent lenses, plano-concave or plano-convex lenses]

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

Ex.: WO2007045242



## F21V 5/08

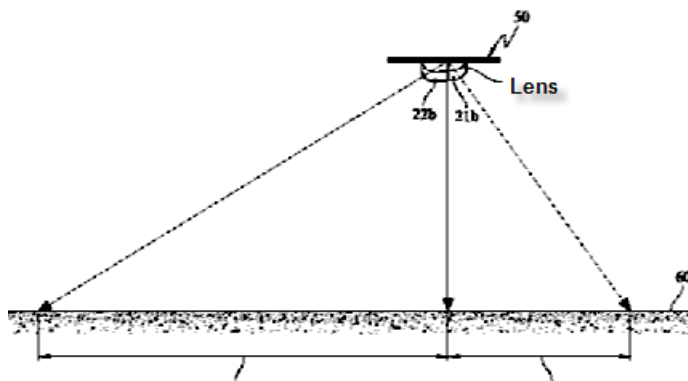
producing an asymmetric light distribution

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

Ex.: US2009225551



## F21V 7/00

Reflectors for light sources [N: (for vehicle rear lights [F21S 48/23](#); for vehicle head lamps [F21S 48/1317](#) )]

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Details of kinds concerned with light emission or distribution solely applicable to the electric portable lighting devices	<a href="#">F21L 15/02</a>
Reflectors for vehicle headlamps or rear lamps	<a href="#">F21S 48/13</a> , <a href="#">F21S 48/23</a>

Combinations of two kinds of elements one being of reflector and on of the following: refractor, filter or screen	<a href="#">F21V 13/04</a> , <a href="#">F21V 13/08</a> , <b>F21V14/10</b>
Combinations of three kinds of elements being reflectors, refractors, and filters	<a href="#">F21V 13/14</a>
Changing the characteristics or distribution of the light emitted by adjustment of parts by movement of reflectors	<a href="#">F21V 14/04</a>
System with reflecting surfaces using mirrors only, for light condensing, e.g. for use with a light emitter	<a href="#">G02B 17/0668</a>
Systems with reflecting surfaces, with or without refracting elements for light condensing, e.g. for use with a light emitter	<a href="#">G02B 17/0868</a>
Optical elements other than lenses: Mirrors	<a href="#">G02B 5/08</a>
Projectors or projection-type viewers: Reflectors in projection beam	<a href="#">G03B 21/28</a>

## **F21V 7/0008**

**[N:providing for indirect lighting]**

### **Definition statement**

*This subclass/group covers:*

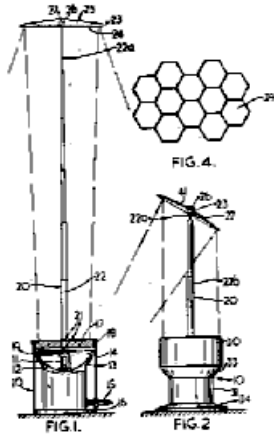
The lighting devices emitting light towards the ceiling and not toward the surface of interest to be lit

Lighting devices, the light beams of which are not being directed directly toward the aim, e.g. by means of reflectors

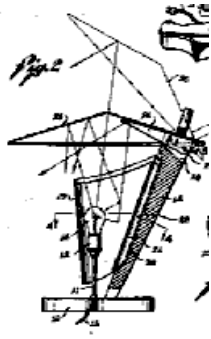
Illustrative example of subject matter classified in this group.

Example: US3671735





Example: US2744192



## F21V 7/0025

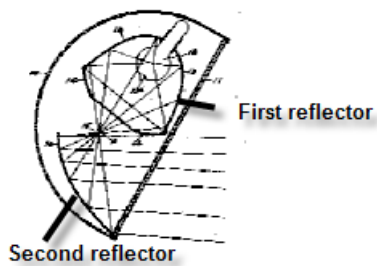
[N: Combination of two or more reflectors for a single light source]

### Definition statement

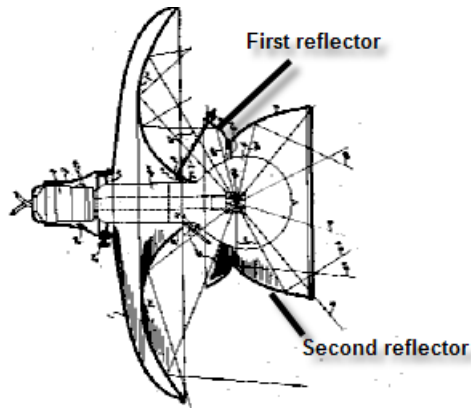
*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

US1300202



US1286535



## References relevant to classification in this group

*This subclass/group does not cover:*

Array of reflectors for a cluster of light sources	<a href="#">F21V 7/0083</a>
--	-----------------------------

## F21V 7/005

[N: with an elongated shape to cooperate with linear light sources]

### Definition statement

*This subclass/group covers:*

Elongated reflective surface with its axis parallel to the axis of an elongated light emitter.

Plurality of reflective surfaces along an axis parallel to the axis of one elongated light emitter.

## References relevant to classification in this group

*This subclass/group does not cover:*

Plurality of reflective surfaces along an axis parallel to the axis of an light source formed of a plurality of light emitters, each light emitter corresponding to an individual reflective surface, i.e. array of light sources	<a href="#">F21V 7/0083</a>
---	-----------------------------

### Special rules of classification within this group

In this group, it is desirable to add the Indexing Codes of [F21Y 2103/00](#)

### F21V 7/0058

[N:adapted to cooperate with light sources of shapes different from point-like or linear, e.g. circular light sources]

### Special rules of classification within this group

In this group, it is desirable to add the Indexing Codes of [F21Y 2103/02](#)

### F21V 7/0066

[N:specially adapted to co operate with point like light sources; specially adapted to co operate with light sources the shape of which is unspecified ([F21V 7/16](#) to [F21V 7/22](#) take precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Construction of reflector with provision for adjusting the curvature	<a href="#">F21V 7/16</a>
Construction of reflector with provision for folding or collapsing	<a href="#">F21V 7/18</a>
Reflector constructed to facilitate cooling	<a href="#">F21V 7/20</a>
Reflector characterised by the material; characterised by surface treatments or coatings	<a href="#">F21V 7/22</a>

### F21V 7/0083

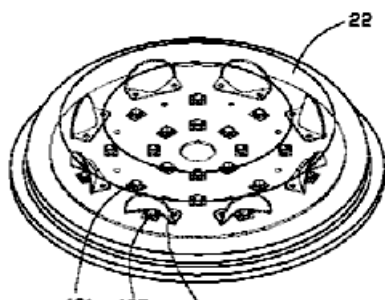
[N: Array of reflectors for a cluster of light sources, e.g. arrangement of multiple light sources in one plane (combination of two or more reflectors [F21V 7/0025](#))]

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.US2010328938: Plurality of individually removable identical reflectors on a planar matrix of LEDs



### Informative references

Attention is drawn to the following places, which may be of interest for search:

Combination of two or more reflectors for a single light source	<a href="#">F21V 7/0025</a>
---	-----------------------------

### F21V 7/0091

[N:using total internal reflection]

#### Definition statement

*This subclass/group covers:*

Reflectors for rear vehicle light using total internal reflection.

Refractors having surfaces used for total internal reflection.

#### References relevant to classification in this group

*This subclass/group does not cover:*

Reflectors for vehicle headlamps using total internal reflection	<b>F21V7/00M4</b>
--	-------------------

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Systems with reflecting surfaces, with or without refracting elements; Catadioptric systems for use with light	<a href="#">G02B 17/0868</a>
--	------------------------------

emitter	
---------	--

## Special rules of classification within this group

Reflectors for rear vehicle light using total internal reflection have to be also classified in **F21V7/00Q**

Refractors having surfaces used for total internal reflection have to be also classified in [F21V 5/00](#)

## F21V 7/04

Optical design ([F21V 7/22](#) takes precedence)

### Definition statement

*This subclass/group covers:*

Reflector for which the surface is defined by mathematical formulae.

## F21V 7/09

with a combination of different curvatures

### Definition statement

*This subclass/group covers:*

Also reflector surfaces with asperities

## F21V 7/18

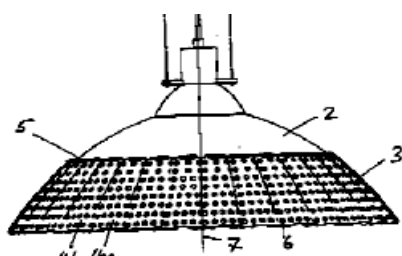
with provision for folding or collapsing

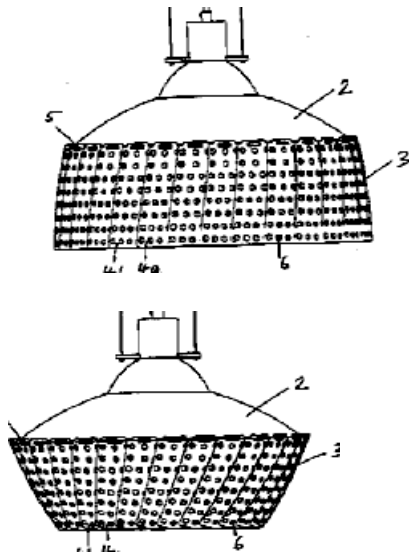
### Definition statement

*This subclass/group covers:*

Illustrative examples of subject matter classified in this group.

e.g. DE202004011140U





## F21V 7/20

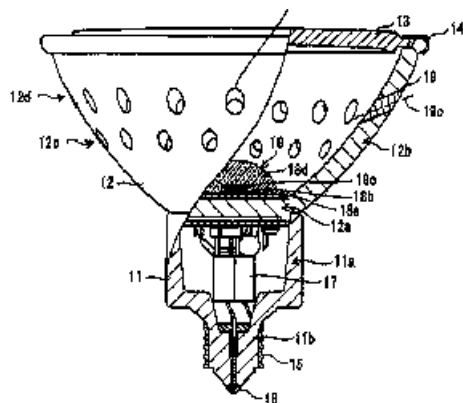
constructed to facilitate cooling, e.g. with fins (cooling by other means, e.g. fluid, [F21V 29/00](#))

### Definition statement

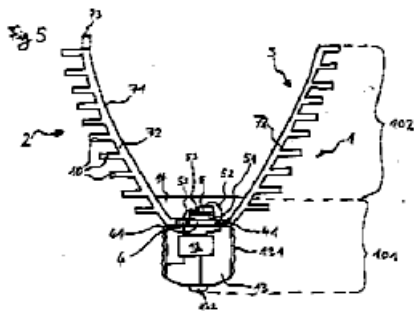
*This subclass/group covers:*

Illustrative examples of subject matter classified in this group.

e.g. JP2011228265



e.g. DE102004042186



## Informative references

Attention is drawn to the following places, which may be of interest for search:

Cooling by other means	<a href="#">F21V 29/00</a>
------------------------	----------------------------

## Special rules of classification within this group

[F21V 7/20](#) is given in combination with the appropriate group in [F21V 29/00](#)

## F21V 7/22

characterised by the material; characterised by surface treatments or coatings

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Multilayer mirrors	<a href="#">G02B 5/0816</a>
Surface treatment of glass, at least one coating being a metal	<a href="#">C03C 17/36</a>

## F21V 9/00

Light filters (coloured shades [F21V 1/00](#)); Selection of luminescent materials for light screens (luminescent materials per se [C09K 11/00](#); electroluminescent light sources [H05B 33/00](#))

## References relevant to classification in this group

This subclass/group does not cover:

Coloured shades	<a href="#">F21V 1/00</a>
-----------------	---------------------------

---

---

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Luminescent materials per se	<a href="#">C09K 11/00</a>
Filters for vehicle headlamps or rear lamps	<a href="#">F21S 48/12</a> , <a href="#">F21S 48/22</a>
Combination of only two kinds of elements being reflectors and filters	<a href="#">F21V 13/08</a>
Combination of only three kinds of elements being reflectors, refractors and filters	<a href="#">F21V 13/14</a>
Changing the characteristics or distribution of the light emitted by adjustment of parts by movement of screens	<a href="#">F21V 14/08</a>
Details of kinds concerned with light emission or distribution solely applicable to the electric portable lighting devices; Arrangements of coloured filters or screens	<a href="#">F21L 15/04</a>

## F21V 9/02

for simulating daylight ([F21V 9/04](#), [F21V 9/06](#), [F21V 9/16](#) take precedence)

### Definition statement

*This subclass/group covers:*

False windows are also covered by this subgroup

### References relevant to classification in this group

*This subclass/group does not cover:*

Light filters for filtering out infra-red radiatio	<a href="#">F21V 9/04</a>
--	---------------------------



Light filters for filtering out ultra-violet radiation	<a href="#">F21V 9/06</a>
Light filters; Selection of luminescent materials for screens	<a href="#">F21V 9/16</a>

## **F21V 9/04**

for filtering out infra-red radiation (using liquid-filled chambers [F21V 9/12](#))

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Light filters for producing coloured light with liquid-filled chambers	<a href="#">F21V 9/12</a>
--	---------------------------

## **F21V 9/06**

for filtering out ultra-violet radiation ([F21V 9/16](#) takes precedence)

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Light filters; Selection of luminescent materials for screens	<a href="#">F21V 9/16</a>
---	---------------------------

## **F21V 9/08**

for producing coloured light, e.g. monochromatic; for reducing intensity of light ([F21V 9/16](#) takes precedence)

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Light filters; Selection of luminescent materials for screens	<a href="#">F21V 9/16</a>
---	---------------------------

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Radiation therapy using light characterised by the wavelength of light used; Coloured visible light	<a href="#">A61N 2005/0663</a>
---	--------------------------------

## F21V 9/10

with provision for variation of the colour or intensity ([F21V 9/12](#) takes precedence)

## References relevant to classification in this group

This subclass/group does not cover:

Light filters for producing coloured light with liquid-filled chambers	<a href="#">F21V 9/12</a>
--	---------------------------

## F21V 11/00

Screens not covered by groups [F21V 1/00](#), [F21V 3/00](#), [F21V 7/00](#) or [F21V 9/00](#)

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Screens, light shielding members for vehicle headlamps	<a href="#">F21S 48/14</a>
Combination of only two kinds of elements being reflectors and screens	<a href="#">F21V 13/10</a>
Changing the characteristics or distribution of the light emitted by adjustment of parts by movement of screens	<a href="#">F21V 14/08</a>

## F21V 11/02

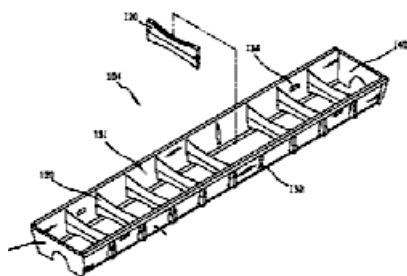
using parallel laminae or strips, e.g. of Venetian-blind type  
([F21V 11/06](#) takes precedence)

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.US2010142197



### References relevant to classification in this group

*This subclass/group does not cover:*

Screens using crossed laminae or strips	<a href="#">F21V 11/06</a>
---	----------------------------

## F21V 11/04

### adjustable

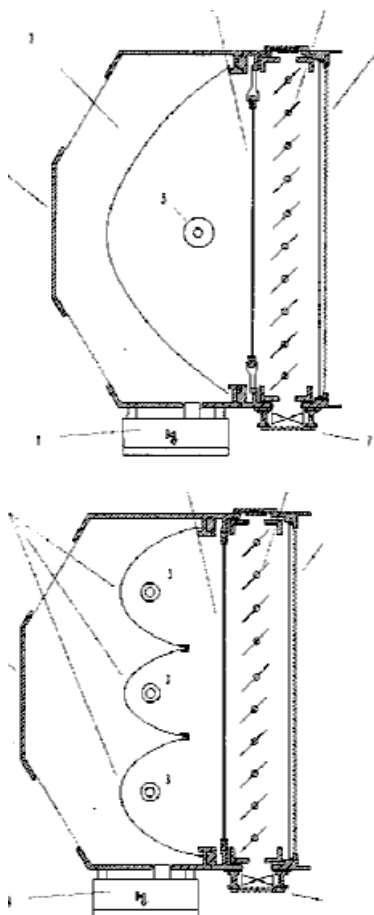
### Definition statement

*This subclass/group covers:*

Adjustable lamellae

Illustrative example of subject matter classified in this group.

e.g.DE9420171U



### Informative references

Attention is drawn to the following places, which may be of interest for search:

Changing the characteristics or distribution of the light by movement of screens	<a href="#">F21V 14/08</a>
--	----------------------------

### F21V 11/06

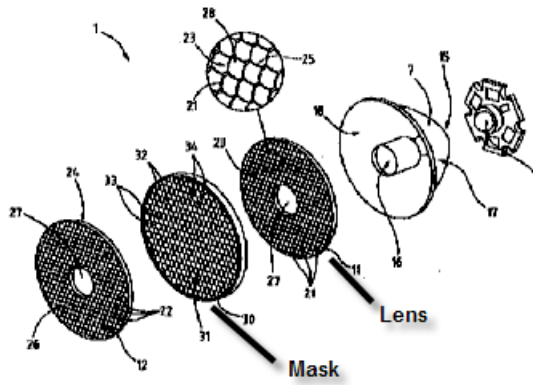
using crossed laminae or strips; [N: e.g. grid-shaped louvers];  
using lattices or honeycombs

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g. WO2010007504



## F21V 11/14

with many small apertures

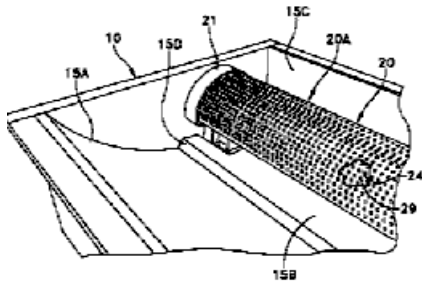
### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g. US7588345

Polymeric light control film with holes on an elongated light source



## F21V 11/16

using sheets without apertures, [N: i.e. masks for shielding light,]e.g. fixed ([F21V 11/02](#), [F21V 11/06](#) take precedence; [N: for vehicle head lamps [F21S 48/145](#) ])

### References relevant to classification in this group

*This subclass/group does not cover:*

Screens using parallel laminae or strips	<a href="#">F21V 11/02</a>
Screens using crossed laminae or strips	<a href="#">F21V 11/06</a>

---

## F21V 11/18

movable, e.g. flaps, slides

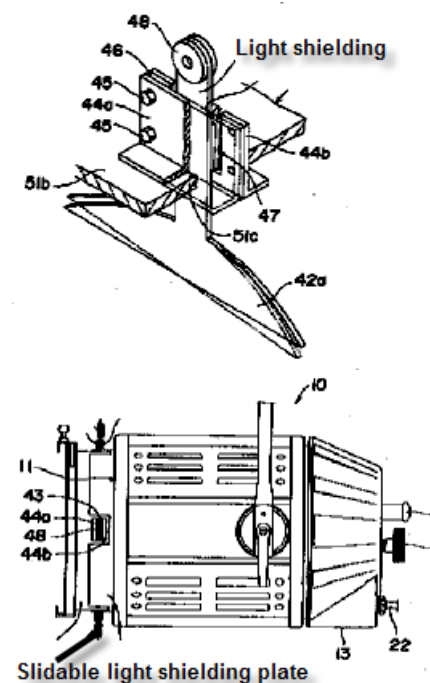
### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g. WO2009096472

Light-shielding plates for stage projectors



## F21V 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](#) (by means of a combination of two or more elements covered by a single one of main groups [F21V 1/00](#) [F21V 11/00](#), see the relevant group; changing the characteristics or distribution of the light emitted by adjustment of parts [F21V 14/00](#))

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

By means of a combination of reflectors and refractors for vehicle rear lamps	<a href="#">F21S 48/24</a>
By means of a combination of two or more elements covered by a single one of main groups <a href="#">F21V 1/00-F21V 11/00</a>	<a href="#">F21V 1/00</a> - <a href="#">F21V 11/00</a>
Changing the characteristics or distribution of the light emitted by adjustment of parts	<a href="#">F21V 14/00</a>
Details of kinds concerned with light emission or distribution solely applicable to the electric portable lighting devices	<a href="#">F21L 15/02</a>

## **F21V 13/02**

### **Combinations of only two kinds of elements**

#### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Systems with reflecting surfaces, with or without refracting elements for light condensing, e.g. for use with a light emitter	<a href="#">G02B 17/0868</a>
---	------------------------------

## **F21V 13/14**

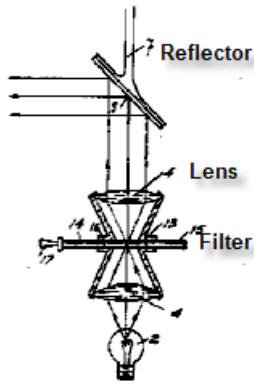
### **the elements being reflectors, refractors and filters**

#### **Definition statement**

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g. DE550107C



## F21V 14/00

Changing the characteristics or distribution of the light emitted by adjustment of parts or by interposition of elements with electrically controlled variable light transmissivity (reflectors with provision for adjusting the curvature [F21V 7/16](#); light filters with provision for variation of colour or intensity [F21V 9/10](#); screens using iris-type diaphragms [F21V 11/10](#); adjustable mountings for lighting devices [F21V 21/14](#))

### References relevant to classification in this group

*This subclass/group does not cover:*

Reflectors with provision for adjusting the curvature	<a href="#">F21V 7/16</a>
Light filters with provision for variation of colour or intensity	<a href="#">F21V 9/10</a>
Screens using iris-type diaphragms	<a href="#">F21V 11/10</a>
Details regarding the mechanism for the adjustment of components of the lighting device	<a href="#">F21V 17/02</a>
Details regarding the mechanism for the adjustment of the lamp holder or the light source	<a href="#">F21V 19/02</a>
Adjustable mountings for lighting devices	<a href="#">F21V 21/14</a>
Adjustable vehicle headlamp housing	<a href="#">B60Q 1/06</a>



## Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of kinds concerned with light emission or distribution solely applicable to the electric portable lighting devices	<a href="#">F21L 15/02</a>
--	----------------------------

## Special rules of classification within this group

Details regarding the mechanism for the adjustment of components of the lighting device [F21V 17/02](#), it is desirable to give the Indexing Code of [F21V 14/04](#), [F21V 14/06](#) or [F21V 14/08](#)

Details regarding the mechanism for the adjustment of the lamp holder or the light source [F21V 19/02](#), it is then desirable to give the Indexing Code [F21V 14/02](#)

## F21V 14/003

[N:by interposition of elements with electrically controlled variable light transmissivity, e.g. liquid crystal elements or electrochromic devices (liquid crystal elements [G02F 1/13](#))]

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Liquid crystal elements	<a href="#">G02F 1/13</a>
In vehicle headlamps	<a href="#">F21S 48/1731</a>

## F21V 14/08

by movement of screens [N: or filters]

## Definition statement

*This subclass/group covers:*

Changing characteristic or distribution of light by movement of screens or filters

## Informative references

Attention is drawn to the following places, which may be of interest for search:

In vehicle headlamps	<b>F21S8/17S2</b>
Adjustable lamellae	<a href="#">F21V 11/04</a>
Movable screens being sheets without apertures	<a href="#">F21V 11/18</a>

## **F21V 15/00**

**Protecting lighting devices from damage [N: (gas-tight or water tight arrangements [F21V 31/00](#) )]**

### **Definition statement**

*This subclass/group covers:*

Protecting lighting devices from damage due to external interactions, e.g. anti-vandalism devices, cages

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Gas-tight or water-tight arrangements	<a href="#">F21V 31/00</a>
---------------------------------------	----------------------------

### **Informative references**

Attention is drawn to the following places, which may be of interest for search:

Cooling or heating arrangements	<a href="#">F21V 29/00</a>
---------------------------------	----------------------------

## **F21V 15/01**

**Housings, e.g. material or assembling of housing parts ([F21V 15/02](#) takes precedence; [N: housings forming signs or letters [G09F 13/04](#) ])**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Cages for protecting lighting devices from damage	<a href="#">F21V 15/02</a>
---	----------------------------

Housings forming signs or letters	<a href="#">G09F 13/0404</a>
-----------------------------------	------------------------------

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Lighting device essentially made of an elongated section for suspending at least one linear light source	<b>F21S8/00H</b>
Casings, cabinets or drawers for electric apparatus	<a href="#">H05K 5/00</a>

## F21V 15/013

**[N:the housing being an extrusion]**

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Lighting devices or systems using a string or strip of light sources Strings rigidly mounted on a frame	<b>F21S4/00A</b>
---	------------------

## F21V 15/02

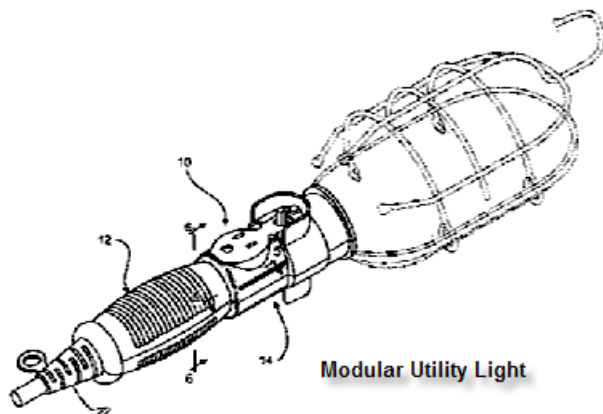
### Cages

#### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.US2010061111



## F21V 15/04

Resilient mountings, e.g. shock absorbers (in general [F16F 15/04](#); [N: shock absorbing devices of vehicle headlamp housings [B60Q 1/0491](#) ])

### References relevant to classification in this group

*This subclass/group does not cover:*

Shock absorbing devices of headlamp housings	<a href="#">B60Q 1/0491</a>
--	-----------------------------

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Shock absorbing devices in general	<a href="#">F16F 15/04</a>
Details of lighting devices employing liquid fuel as light source, not otherwise provided for; Fastening or safety devices for reflectors, cover glasses or chimneys; Protections against shocks	<a href="#">F21V 37/0091</a>

## F21V 15/06

Thermal insulation [N: (for vehicle head lamps [F21S 48/32](#) )]

### Definition statement

*This subclass/group covers:*

Means for screening the heat, e.g. screen for heat radiation

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Through holes in printed circuit board to screen conductive heat transfer from on one part to the other	<a href="#">H05K 1/0203</a>
---	-----------------------------

### F21V 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](#); gas-tight or water-tight arrangements [F21V 31/00](#)) [N: for vehicle rear lights [F21S 48/20](#); for vehicle head lights [F21S 48/10](#) ])

### References relevant to classification in this group

This subclass/group does not cover:

Fastening of component parts of vehicle headlamps	<a href="#">F21S 48/1208</a> , <a href="#">F21S 48/1305</a> , <a href="#">F21S 48/155</a>
Fastening of component parts of vehicle signal lamps	<a href="#">F21S 48/2206</a> , <a href="#">F21S 48/232</a>
Fastening of light sources or light holders	<a href="#">F21V 19/00</a>
For gas-tight or water-tight arrangements	<a href="#">F21V 31/00</a>

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Fastening or lifting of the lamp glass of lanterns	<a href="#">F21L 19/003</a>
--	-----------------------------

## F21V 17/007

[N:with provision for shipment or storage]

### Definition statement

*This subclass/group covers:*

Components of lighting devices intended to be easily dismantled or with reduced dismantled volume for shipment or storage

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Receptacles with Roll-up holders with pockets for separates articles (personal use); Not limited to lamps	<a href="#">A45C 11/26</a>
Packaging for ampoules, lamp bulbs (for sale)	<a href="#">B65D 85/42</a>
Supports or holders for coiled, wound or folded material	<a href="#">B65H 75/02</a>
Machines, apparatus or devices for or method of packaging or material; unpacking	<a href="#">B65B</a>
Foldable or collapsible frames for shades for light sources	<a href="#">F21V 1/06</a>
Construction of reflector with provision for folding or collapsing	<a href="#">F21V 7/18</a>
Packaging for ampoules or lamp bulbs, e.g. for sale	<a href="#">B65D 85/42</a>
Supports or holders for coiled, wound or folded material	<a href="#">B65H 75/02</a>

## F21V 17/02

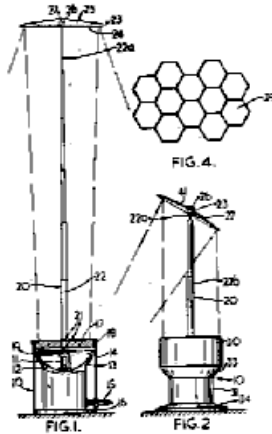
with provision for adjustment ([F21V 17/04](#), [F21V 17/06](#), [F21V 17/08](#) take precedence)

### Definition statement

*This subclass/group covers:*

Details regarding the mechanism for the adjustment

e.g. US3671735



### References relevant to classification in this group

*This subclass/group does not cover:*

Fastening of component parts of lighting devices, the fastening being onto or by the light source	<a href="#">F21V 17/04</a>
Fastening of component parts of lighting devices, the fastening being onto or by the lampholder	<a href="#">F21V 17/06</a>
Fastening of component parts of lighting devices, onto the supporting or suspending arrangements of the lighting device, e.g. power cords, standards	<a href="#">F21V 17/08</a>

### Special rules of classification within this group

Always provide also the information which component is concerned by giving the relevant Indexing Code [F21V 5/00-F21V 9/00](#); if the focus is on the change in the characteristics or distribution of the light emitted give also the Indexing Code R21

V14/04-[F21V 14/08](#)

**F21V 17/04**

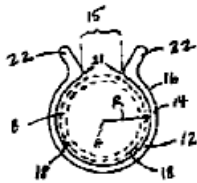
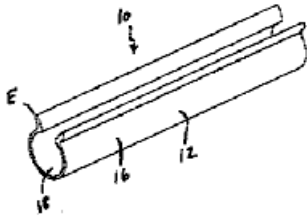
the fastening being onto or by the light source

**Definition statement**

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.WO2010078339



**F21V 17/06**

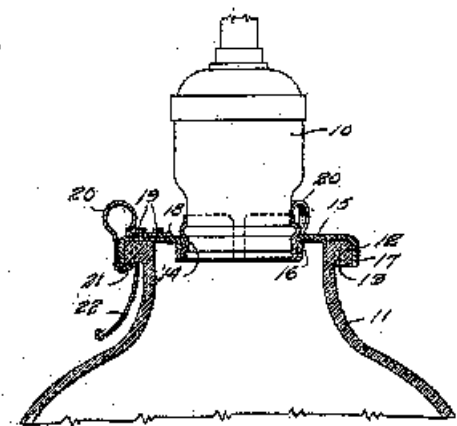
the fastening being onto or by the lampholder

**Definition statement**

*This subclass/group covers:*

e.g.US1293909

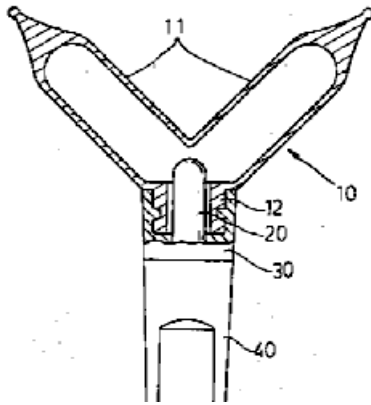
Electric light-globe holder



e.g.US2010046238

Outer shell structure of a decoration lamp string





## F21V 17/10

characterised by specific fastening means or way of fastening  
([F21V 17/02](#) to [F21V 17/08](#) take precedence)

### References relevant to classification in this group

*This subclass/group does not cover:*

Fastening of component parts of lighting devices with provision for adjustment	<a href="#">F21V 17/02</a>
Fastening of component parts of lighting devices, the fastening being onto or by the light source	<a href="#">F21V 17/04</a>
Fastening of component parts of lighting devices, the fastening being onto or by the lampholder	<a href="#">F21V 17/06</a>
Fastening of component parts of lighting devices, onto the supporting or suspending arrangements of the lighting device, e.g. power cords, standards	<a href="#">F21V 17/08</a>

## F21V 17/101

[N:permanently, e.g. welding, gluing or riveting]

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Joining or sealing of preformed parts,	<a href="#">B29C 65/00</a>
--	----------------------------

welding of plastics materials	
Joining sheets or plates, e.g. panels, to one another or to strips or bars parallel to them by means of riveting	<a href="#">F16B 5/04</a>

## **F21V 19/00**

**Fastening of light sources or lampholders (fastening electric light source solely by the coupling device [H01R 33/00](#); [N: special means for attaching the candle to the candle holder [F21V 35/003](#) ])**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Fastening electric light sources in vehicle headlamps	<a href="#">F21S 48/1104</a>
Fastening electric light sources in vehicle signal lamps	<a href="#">F21S 48/211</a>
Special means for attaching the candle to the candle holder	<a href="#">F21V 35/003</a>
Fastening electric light source solely by the coupling device	<a href="#">H01R 33/00</a>

## **F21V 19/0005**

**[N:of sources having contact pins, wires or blades, e.g. pinch sealed lamp ([F21V 19/001](#) takes precedence)]**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Fastening of removably mounted LEDs; Fastening of removably mounted PCBs holding light sources	<a href="#">F21V 19/001</a>
--	-----------------------------

## F21V 19/001

[N:Fastening of removably mounted LEDs; Fastening of removably mounted PCBs holding light sources ([F21S8/11A2](#), [F21S 48/212](#) take precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Fastening of light sources or lampholders: Details of lamp holders, terminals or connectors for vehicle headlamps	<a href="#">F21S 48/1109</a>
Fastening of light sources or lampholders: Details of lamp holders, terminals or connectors for vehicle rear lights	<a href="#">F21S 48/212</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Printed circuits structurally associated with non-printed electric components characterised by the use of a flexible or folded printed circuit	<a href="#">H05K 1/189</a>
--	----------------------------

### Synonyms and Keywords

*In patent documents the following abbreviations are often used:*

PCB	Printed Circuit Board
LED	Light Emitting Diode

## F21V 19/006

[N: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](#)]

## References relevant to classification in this group

*This subclass/group does not cover:*

Fastening of light sources or lampholders of sources having contact pins, wires or blades	<a href="#">F21V 19/0005</a>
Fastening of removably mounted LEDs; Fastening of removably mounted PCBs holding light sources	<a href="#">F21V 19/001</a>

## Synonyms and Keywords

*In patent documents the following abbreviations are often used:*

LED	Light Emitting Diode
-----	----------------------

## F21V 19/0075

**[N:of tubular light sources, e.g. ring-shaped fluorescent light sources]**

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Holders formed as intermediate parts for linking a counter-part to a coupling part for tubular fluorescent lamps	<a href="#">H01R 33/942</a>
--	-----------------------------

## F21V 19/0085

**[N:at least one conductive element acting as a support means, e.g. resilient contact blades, piston-like contact]**

### Relationship between large subject matter areas

This group does not cover coupling devices in which a holder is adapted for supporting apparatus to which its counterpart is attached or separate parts thereof, see [H01R 33/08](#): Two-pole devices for supporting tubular fluorescent lamps.

## F21V 19/02

with provision for adjustment, e.g. for focusing

### Definition statement

*This subclass/group covers:*

Details regarding the mechanism for the adjustment of the light source or lampholder

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Changing the characteristics or distribution of the light emitted by movement of light sources	<a href="#">F21V 14/02</a>
--	----------------------------

### Special rules of classification within this group

If the focus is on the change in the characteristics or distribution of the light emitted give also [F21V 14/02](#)

## F21V 19/04

with provision for changing light source, e.g. turret [N:  
(auxiliary devices for cleaning, placing, or removing  
incandescent lamps [H01K 3/32](#), fluorescent lamps [H01J 9/006](#))

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Auxiliary devices for cleaning, placing, or removing incandescent lamps	<a href="#">H01K 3/32</a>
Auxiliary devices for cleaning, placing, or removing fluorescent lamps	<a href="#">H01J 9/006</a>

## F21V 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

### References relevant to classification in this group

*This subclass/group does not cover:*

Fastening of component parts of lighting devices	<a href="#">F21V 17/00</a>
Fastening of light sources or lampholders	<a href="#">F21V 19/00</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general	<a href="#">B60Q</a>
Stands for supporting apparatus or articles in general	<a href="#">F16M 11/00</a>

## **F21V 21/002**

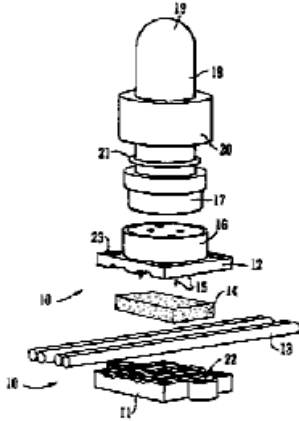
**making direct electrical contact, e.g. by piercing ([F21V 21/35](#) takes precedence)**

### Definition statement

*This subclass/group covers:*

The housing of the lighting device or lampholder is equipped with needle contacts to pierce the cable insulator to connect while attaching the housing or lampholder to the cable.

e.g.WO2007023261



## References relevant to classification in this group

*This subclass/group does not cover:*

Supporting elements displaceable along a guiding element with direct electrical contact between the supporting element and electric conductors running along the guiding element	<a href="#">F21V 21/35</a>
--	----------------------------

## Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Electrically-conductive connections between two or more conductive members in direct contact and means for effecting or maintaining such contact; Needle-point, slotted plate, or analogous contact members penetrating insulation or cable strands having at least one tooth, prong, pin or needle penetrating the insulation	<a href="#">H01R 4/2404</a>
--	-----------------------------

## F21V 21/005

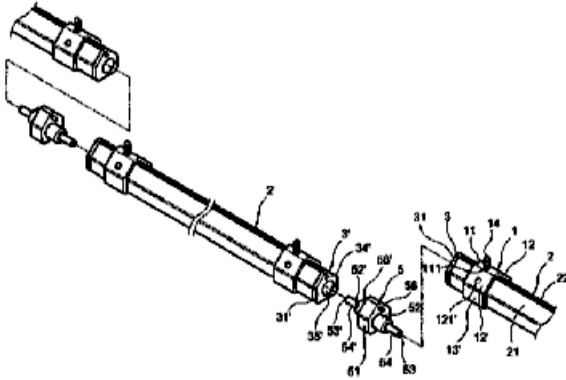
for several lighting devices in an end-to-end arrangement, i.e. light tracks

## Definition statement

*This subclass/group covers:*

Housing of lighting devices mechanically in side-by-side or end-to-end contact

e.g. EP2012054



### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Systems of lighting devices, not provided for in main groups <a href="#">F21S 4/00</a> to <a href="#">F21S 10/00</a> or <a href="#">F21S 19/00</a>	<a href="#">F21S 2/00</a>
Lighting devices or systems using a string or strip of light sources being lighting strips	<b>F21S4/00C</b>

## F21V 21/008

### Suspending from a cable or suspension line

#### Definition statement

*This subclass/group covers:*

Details of the suspending means from a cable or suspension line

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Lighting devices intended for fixed installation intended only for mounting on a ceiling or like overhead structure	<a href="#">F21S 8/06</a>
---	---------------------------



## F21V 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](#))

### References relevant to classification in this group

*This subclass/group does not cover:*

Supporting, suspending, or attaching arrangements for lighting devices; Devices for easy attachment to any desired place, e.g. clip, clamp, magnet	<a href="#">F21V 21/08</a>
--	----------------------------

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Bases for movable standing lamps	<a href="#">F21V 21/06</a>
Installation of electrical cables or lines in buildings / Details / Distribution boxes / ceiling roses or other lighting sets	<a href="#">H02G 3/20</a>

## F21V 21/03

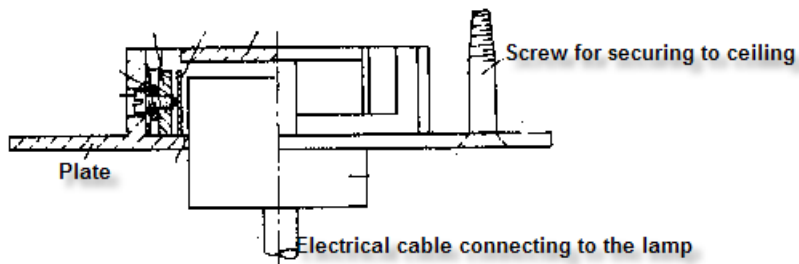
Ceiling bases, e.g. ceiling roses ([F21V 21/04](#) takes precedence)

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.FR2186626



## F21V 21/04

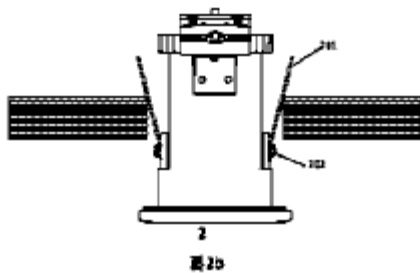
### Recessed bases

#### Definition statement

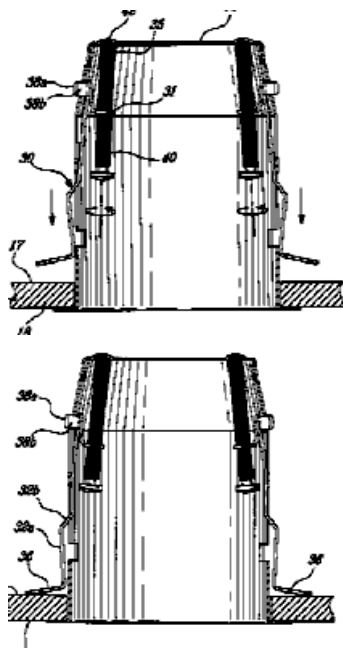
*This subclass/group covers:*

Details of the fastening means for a recessed lighting device

e.g. WO2010/135928

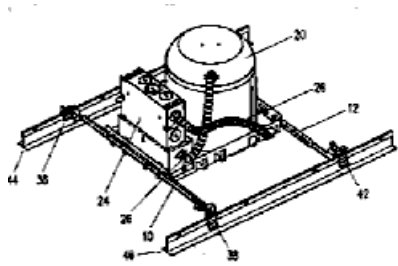


e.g. WO2009109049



e.g.US2010110705

Hanger bar for recessed lighting fixtures



### Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for fixing loudspeaker transducers, e.g. in a box, furniture	<a href="#">H04R 1/025</a>
---	----------------------------

### Special rules of classification within this group

Generally no classification in [F21S 8/02](#)

### F21V 21/06

**Bases for movable standing lamps; Fixing standards to the bases ([F21V 21/08](#) takes precedence)**

### Definition statement

*This subclass/group covers:*

Portable lighting devices provided with stands or bases to be used as a movable standing lamp

### References relevant to classification in this group

*This subclass/group does not cover:*

Supporting, suspending, or attaching arrangements for lighting devices; Devices for easy attachment to any desired place, e.g. clip, clamp, magnet	<a href="#">F21V 21/08</a>
--	----------------------------

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Stands for supporting apparatus or articles in general	<a href="#">F16M 11/00</a>
Electrical connection of the arms of a multi-armed chandelier	<a href="#">F21V 23/06</a>
Mechanical connection of the arms of a multi-armed chandelier	<a href="#">F21V 21/02</a>

## Synonyms and Keywords

In patent documents the following words " base", "Socles", "embase" and "piétement" are often used as synonyms

## F21V 21/08

**Devices for easy attachment to any desired place, e.g. clip, clamp, magnet**

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for fastening or securing constructional elements or machine parts together	<a href="#">F16B</a>
---	----------------------

## F21V 21/084

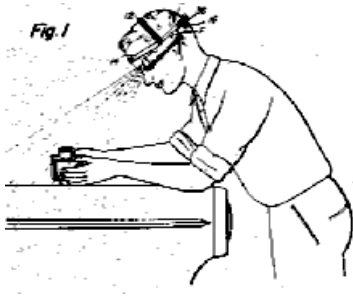
**Head fittings (for medical purposes [A61B 1/06](#)[N: hats or helmets with lamps [A42B 3/044](#) ])**

## Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.US3249271



## References relevant to classification in this group

*This subclass/group does not cover:*

Hats or helmets with lamps	<a href="#">A42B 3/044</a>
----------------------------	----------------------------

## Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Instruments for performing medical examinations of the interior of cavities or tubes of the body by visual or photographic inspection, e.g. endoscopes with illuminating arrangements	<a href="#">A61B 1/06</a>
Supporting and suspending elements for a portable lighting device; Head fittings	<a href="#">F21L 15/14</a>

## F21V 21/0885

**[N: portable lighting devices]**

## Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Supporting and suspending elements for a portable lighting device; Clips ; Clamps	<a href="#">F21L 15/14</a>
---	----------------------------

## F21V 21/0925

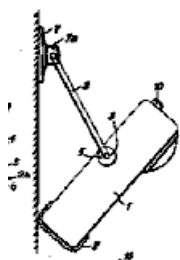
## [N: portable lighting devices]

### Definition statement

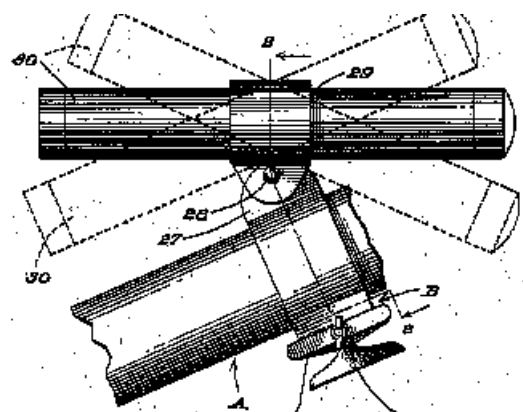
*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.GB739441



e.g.US2402877



## F21V 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](#))

### Definition statement

*This subclass/group covers:*

Access door to the inside of a pole for lighting device; compartments inside the lighting pole

### References relevant to classification in this group

*This subclass/group does not cover:*

Construction of posts not peculiar to use with lighting devices

[E04H 12/00](#)

---

## Informative references

Attention is drawn to the following places, which may be of interest for search:

Adjustable mounting of lighting devices	<a href="#">F21V 21/14</a>
---	----------------------------

## F21V 21/112

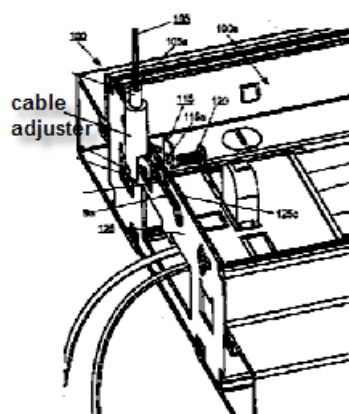
Fixing lighting devices to pendants ([F21V 21/002](#) takes precedence)

### Definition statement

This subclass/group covers:

e.g.US2008112172

Adjustment clip for a suspended light fixture



### References relevant to classification in this group

This subclass/group does not cover:

Supporting, suspending, or attaching arrangements for lighting devices making direct electrical contact	<a href="#">F21V 21/002</a>
---	-----------------------------

## F21V 21/116

Fixing lighting devices to arms or standards ([F21V 21/002](#))

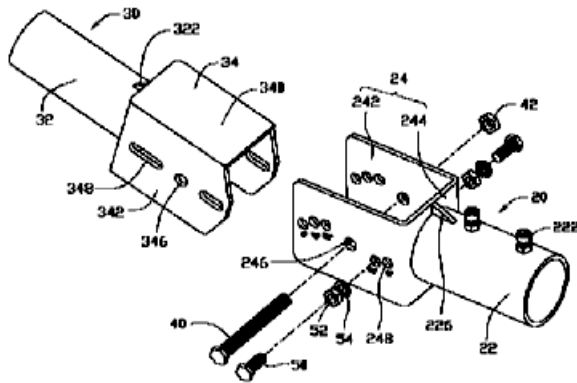
takes precedence)

**Definition statement**

*This subclass/group covers:*

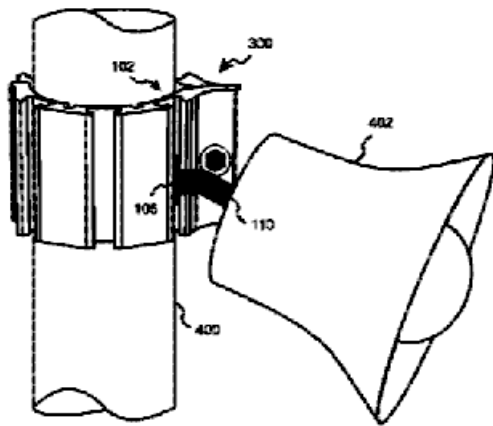
e.g.US2011122634

Connector for connecting lamp to support



e.g.US2010102185

T-channel fixture-mounting pole clamp



**References relevant to classification in this group**

*This subclass/group does not cover:*

Supporting, suspending, or attaching arrangements for lighting devices making direct electrical contact	<a href="#">F21V 21/002</a>
---	-----------------------------

**F21V 21/13**



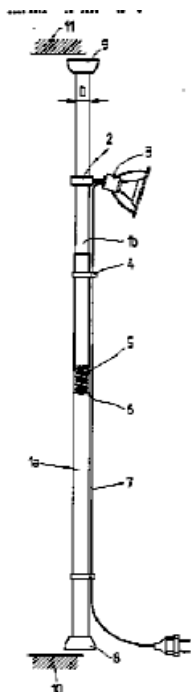
## Spring-loaded poles fixed at both ends

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g.DE29703165U



## F21V 21/145

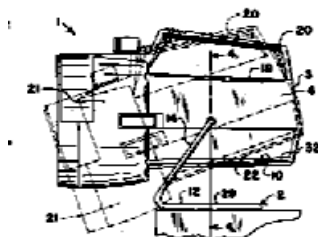
[N: for portable lighting devices]

### Definition statement

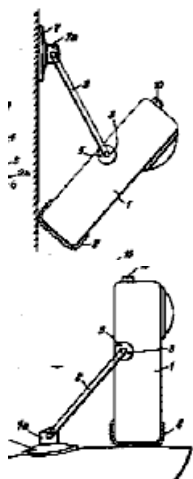
*This subclass/group covers:*

Portable lighting devices provided with adjustable stands or bases to be used as a movable standing lamp

e.g.US3936022



e.g.GB739441



### Special rules of classification within this group

Documents with this scope, published before 1985, are classified in the higher group [F21V 21/14](#)

### F21V 21/15

**specially adapted for power operation, e.g. by remote control**

#### Definition statement

*This subclass/group covers:*

Lighting devices comprising electrical motor to actuate an adjustment movement of the lighting devices

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Arrangements of switches in or on lighting devices activated by remote control means	<a href="#">F21V 23/0435</a>
--	------------------------------

### F21V 21/22

**telescopic**

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Telescopic towers; masts, poles	<a href="#">E04H 12/182</a>
---------------------------------	-----------------------------

Undercarriages changeable in height or length of legs by telescoping	<a href="#">F16M 11/26</a>
--	----------------------------

## F21V 21/24

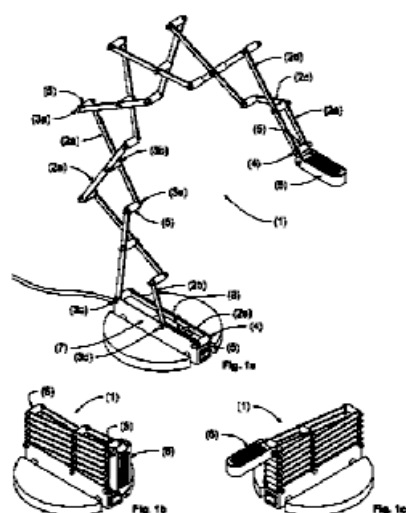
### Lazy-tongs

#### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter classified in this group.

e.g. DE102009010933



## F21V 21/29

### employing universal joints

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Universal joints, i.e. with mechanical connection allowing angular movement or adjustment of the axes of the parts in any direction	<a href="#">F16L 27/02</a>
---	----------------------------

## F21V 21/30

## Pivoted housings or frames

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Electric lighting devices with self-contained electric batteries or cells characterised by the provision of a light source housing portion adjustably fixed to the remainder of the device	<a href="#">F21L 4/04</a>
--	---------------------------

## F21V 21/34

**Supporting elements displaceable along a guiding element [N: (telescopic mounting of lighting devices [F21V 21/22](#) )]**

### References relevant to classification in this group

*This subclass/group does not cover:*

Telescopic mountings of a lighting device	<a href="#">F21V 21/22</a>
---	----------------------------

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Coupling parts adapted for simultaneous co-operation with two or more identical counterparts, e.g. for distributing energy to two or more circuits; Rails or bus-bars constructed so that the counterparts can be connected thereto at any point along their length, e.g. track lighting systems	<a href="#">H01R 25/14</a>
--	----------------------------

## F21V 21/36

**Hoisting or lowering devices, e.g. for maintenance ([F21V 21/14](#) takes precedence)**

## References relevant to classification in this group

*This subclass/group does not cover:*

Adjustable mountings of lighting devices	<a href="#">F21V 21/14</a>
--	----------------------------

## F21V 21/40

### Hand grips

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Operation lamp handles	<b>A61B19/00N</b>
------------------------	-------------------

#### Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Handle	handle is defined to grab and/or manipulate/move the lighting device to a chosen position and not as being a handle on which a lighting device is or can be mounted.
--------	--

## F21V 21/403

**[N:for operation or dentist lamps]**

#### Special rules of classification within this group

In this group, it is desirable to add the Indexing Code [F21W 2131/202](#) or [F21W 2131/205](#)

## F21V 21/406

**[N:for portable lighting devices]**

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Supporting and suspending elements for a portable lighting device	<a href="#">F21L 15/08</a>
---	----------------------------

## **F21V 23/00**

**Arrangements of electric circuit elements in or on lighting devices (electric circuits per se [H05B 39/00](#))**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Electric circuits per se	<a href="#">H05B 39/00</a>
--------------------------	----------------------------

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Arrangement of electronic circuits separated from the light source for vehicle (e.g. mounting of housings for starter circuits for discharge lamps)	<a href="#">B60Q 1/0094</a>
Arrangement of electronic circuits part of the light source or light source holder for vehicle (e.g. mounting of housings of starter circuits for discharge lamps)	<a href="#">F21S 48/1109</a>

## **F21V 23/04**

**the elements being switches (safety devices [F21V 25/00](#))**

### **Definition statement**

*This subclass/group covers:*

Electric means varying continuously or discontinuously the light intensity, e.g. ON/OFF switch, potentiometer, dimmer,...etc

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Safety devices structurally associated	<a href="#">F21V 25/00</a>
--	----------------------------

with lighting devices	
Details of kinds solely applicable to the devices covered by groups <a href="#">F21L 2/00</a> to <a href="#">F21L 14/00</a> concerned with the fitting	<a href="#">F21L 15/06</a>

## **F21V 23/06**

the elements being coupling devices, e.g. for shavers

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Line connectors; Current collectors	<a href="#">H01R</a>
-------------------------------------	----------------------

## **F21V 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](#))**

### **Definition statement**

*This subclass/group covers:*

Electromagnetic shielding of the lighting device

Intumescent material associated with lighting device

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Safety devices in general	<a href="#">F16P</a>
Gas-tight or water-tight arrangements	<a href="#">F21V 31/00</a>
Protective circuit arrangements per se	<a href="#">H01H 7/00</a>

## **F21V 25/02**

coming into action when lighting device is disturbed, dismantled, or broken

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Electric circuit per se	<a href="#">H05B</a>
-------------------------	----------------------

## F21V 27/00

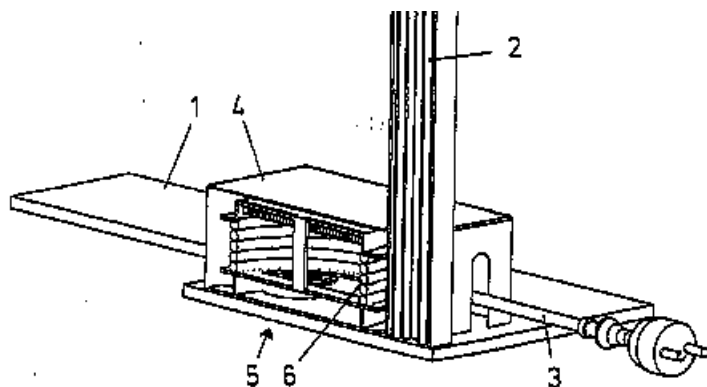
Cable-stowing arrangements structurally associated with lighting devices, e.g. reels (storing lengths of cable in general [B65H](#)); [N:the lighting devices being vehicle headlamps [F21S 48/1109](#); the lighting devices being vehicle rear lights [F21S 48/212](#)]

### Definition statement

*This subclass/group covers:*

Power cable winding device for a lighting device

e.g. DE202007002658U



### References relevant to classification in this group

*This subclass/group does not cover:*

Cable-stowing arrangements structurally associated with lighting devices, the lighting devices being vehicle headlamps	<a href="#">F21S 48/1109</a>
Cable-stowing arrangements structurally associated with lighting devices, the lighting devices being	<a href="#">F21S 48/212</a>



vehicle rear lights	
---------------------	--

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Storing lengths of cable in general	<a href="#">B65H</a>
-------------------------------------	----------------------

## F21V 27/02

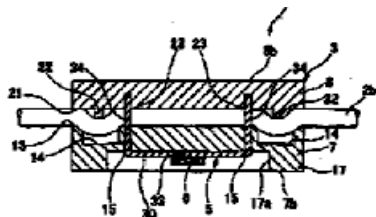
### Cable inlets

#### Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.

e.g. US2010155135



### Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of coupling devices of the kinds covered by groups <a href="#">H01R 12/70</a> or <a href="#">H01R 24/00-H01R 33/00</a> ; Means for relieving strain on wire connection, e.g. cord grip	<a href="#">H01R 13/58</a>
--	----------------------------

## F21V 29/00

Cooling or heating arrangements (cooling of air-treatment systems with air-flow over lighting fixtures [F24F 3/056](#); lighting fixtures combined with outlets for air-treatment systems [F24F 13/078](#); cooling of projectors [G03B 21/16](#)) [N:

cooling of lighting devices or systems specially adapted for vehicles [F21S 48/32](#) ])

### References relevant to classification in this group

*This subclass/group does not cover:*

Cooling of air-treatment systems with air-flow over lighting fixtures	<a href="#">F24F 3/056</a>
Lighting fixtures combined with outlets for air-treatment systems	<a href="#">F24F 13/078</a>
Cooling of projectors	<a href="#">G03B 21/16</a>
Cooling arrangements for gas- or vapour-discharge lamps	<a href="#">H01J 61/52</a>
Cooling arrangements for electric incandescent lamps	<a href="#">H01K 1/58</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Heat pipes	<a href="#">F28D 15/02</a>
Cooling of vehicle headlamps or rear lamps	<a href="#">F21S 48/321</a>
Heating or cooling of liquid crystal cells	<b>G02F1/133T</b>
Systems for controlling or regulating non-electric variables; Control of temperature	<a href="#">G05D 23/00</a>
Details of data-processing equipment not covered by groups <a href="#">G06F 3/00</a> to <a href="#">G06F 13/00</a> , e.g. cooling, packaging or power supply specially adapted for computer application; Constructional details or arrangements; Cooling means	<a href="#">G06F 1/20</a>
Details of semiconductor or other solid state devices; Arrangements for	<a href="#">H01L 23/34</a>

cooling, heating, ventilating or temperature compensation	
Semiconductor devices characterised by the semiconductor body packages; Heat extraction or cooling elements	<a href="#">H01L 33/64</a>
Casings or enclosures with channels or ducts for flow of cooling medium	<a href="#">H02K 5/20</a>
Thermal arrangements for printed circuits, e.g. for cooling or heating	<a href="#">H05K 1/0201</a>

## **F21V 29/002**

[N:Cooling arrangements ([F21V 29/02](#) takes precedence) ]

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Cooling by forced air	<a href="#">F21V 29/02</a>
-----------------------	----------------------------

## **F21V 29/004**

**Natural cooling, i.e. by natural convection, conduction or radiation**

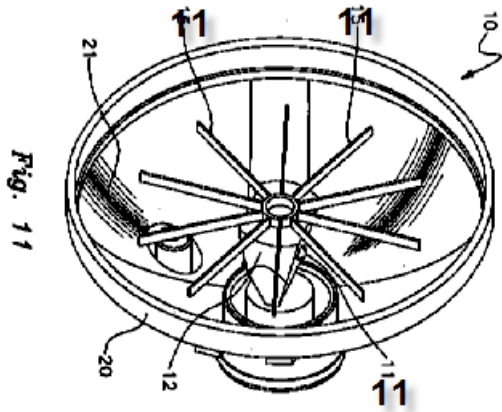
### **Definition statement**

*This subclass/group covers:*

Housing or heatsink with cooling channel or chimney

Heatsink with fins

e.g.US2009002997 - a plurality of radially extending blade members (11)



e.g. DE202009008456U

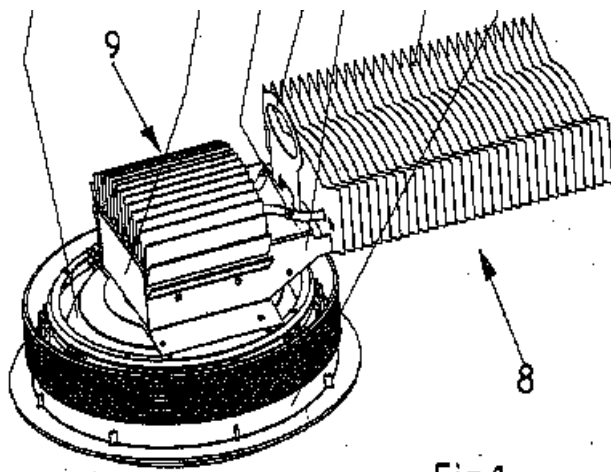
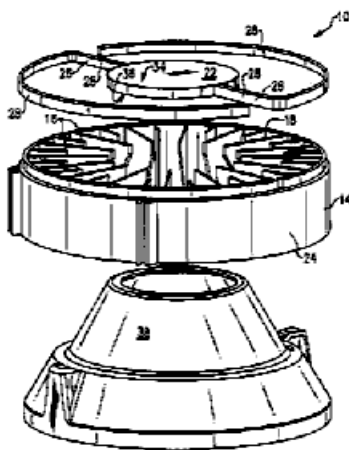
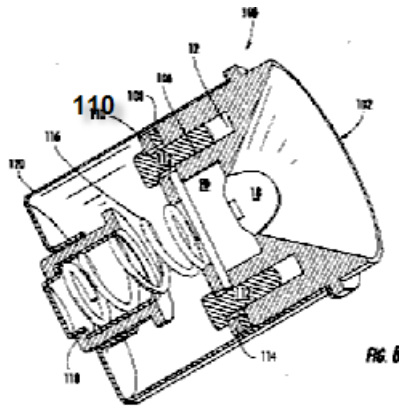


Fig.1

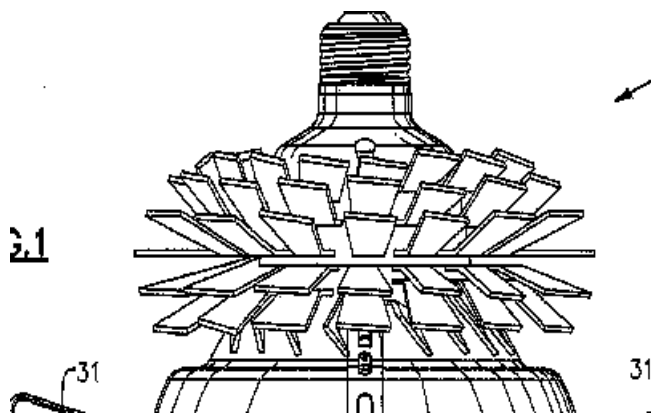
e.g. US2011050070 - see paragraph 79 - Heat pipe



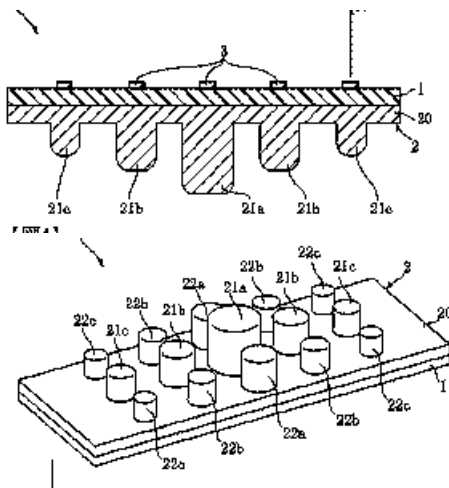
e.g. US2004190285 - see ref. 110 - Heat spreader plate



e.g.US2011074265



e.g.JP2009289772



## Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

*In this group, the following terms are used with the meaning indicated:*

Fin	Two dimensional sheet of heat
-----	-------------------------------

	conductive material, thermally linked to the heat sink, having at least partially part of the both sides submitted to air in movement in order to extract heat therefrom.
--	---

## Synonyms and Keywords

In patent documents the following words " fin" "blade", "cooling vane", "ridge" and "ailette" are often used as synonyms

## F21V 29/008

[N:Heating arrangements (heating arrangements structurally associated with electric lamps [H01J 61/52](#))]

### References relevant to classification in this group

*This subclass/group does not cover:*

Heating arrangements structurally associated with electric lamps	<a href="#">H01J 61/52</a> , <a href="#">H01K 1/58</a>
--	--

## F21V 29/02

Cooling by forcing air [N: or gas] over or around the light source (cooling arrangements structurally associated with electric [N: discharge or incandescent] lamps [H01J 61/52](#), [H01K 1/58](#))

### References relevant to classification in this group

*This subclass/group does not cover:*

Heating arrangements structurally associated with electric lamps	<a href="#">H01J 61/52</a> , <a href="#">H01K 1/58</a>
--	--

## Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Cooling, preventing overheating of projectors or projection-type viewers	<a href="#">G03B 21/16</a> , <a href="#">G03B11/20</a>
--	--

---

## F21V 31/00

### Gas-tight or water-tight arrangements

#### Definition statement

*This subclass/group covers:*

Sealing of lighting device housings

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Waterproofing of vehicle headlamps and signal lamps	<a href="#">F21S 48/33</a>
Safety devices structurally associated with lighting devices	<a href="#">F21V 25/00</a>
Cable-stowing arrangements structurally associated with lighting devices; cable inlets	<a href="#">F21V 27/02</a>
Cooling devices	<a href="#">F21V 29/00</a>
Casings, cabinets or drawers for electric apparatus; Hermetically-sealed casings	<a href="#">H05K 5/06</a>

## F21V 31/04

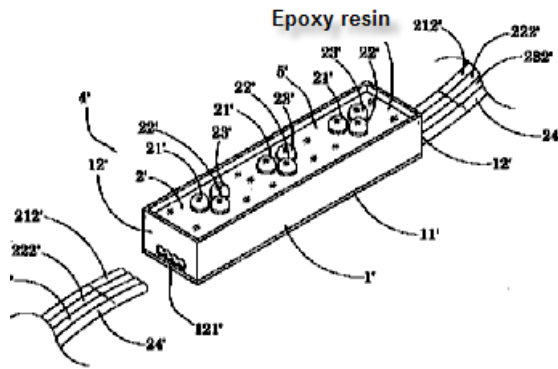
### Provision of filling media (safety devices [F21V 25/00](#); cooling arrangements [F21V 29/00](#))

#### Definition statement

*This subclass/group covers:*

e.g.US2011085334

LED illuminating device with a transparent epoxy resin filling the shell to sealedly envelope the printed circuit board



## Informative references

Attention is drawn to the following places, which may be of interest for search:

Safety devices	<a href="#">F21V 25/00</a>
Cooling arrangements	<a href="#">F21V 29/00</a>

## F21V 33/00

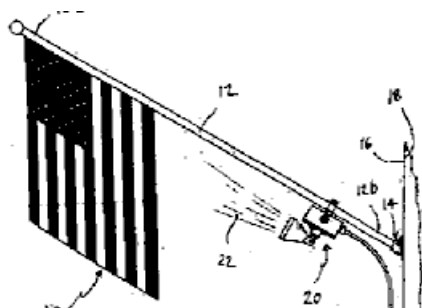
**Structural combinations of lighting devices with other articles, not otherwise provided for**

### Definition statement

*This subclass/group covers:*

e.g. US2006109651

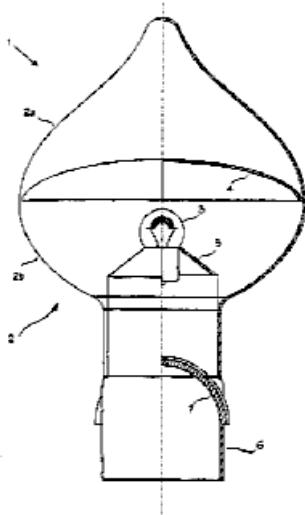
Illuminated banners or flags ([G09F 17/00](#): banners or flags)



e.g. WO9742449

Illuminated flagpoles ([E04H 12/32](#): flagpoles)





## References relevant to classification in this group

*This subclass/group does not cover:*

*Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Lights for cultivation in receptacles, forcing frames, greenhouses	<a href="#">A01G 9/20</a>
Light emitting leads or collars	<a href="#">A01K 27/003</a> , <a href="#">A01K 27/006</a>
Aquaria	<a href="#">A01K 63/06</a>
Fishing nets	<a href="#">A01K 75/02</a>
Fishing baits	<a href="#">A01K 85/01</a>
Rods with build-in accessories, e.g. lighting means or measuring devices	<a href="#">A01K 87/007</a>
Catching insects	<a href="#">A01M 1/04</a>
Baker's ovens	<a href="#">A21B 3/10</a> , <b>F21S8/00G</b>
Gloves; Protective gloves with luminous or reflective means	<a href="#">A41D 19/0157</a>
Luminous or luminescent artificial flowers, fruit, leaves, or trees	<a href="#">A41G 1/005</a>
Helmet with lighting devices	<a href="#">A42B 3/0433</a>

Footwear having light sources	<a href="#">A43B 3/001</a>
Illuminated buckles	<a href="#">A44B 11/2565</a>
Illuminated jewellery	<a href="#">A44C 15/0015</a>
Sticks	<a href="#">A45B 3/02</a>
Bags, purses, or the like	<a href="#">A45C 15/06</a>
Toilet or cosmetic powder containers	<a href="#">A45D 33/32</a>
Shaving mirrors	<a href="#">A45D 42/10</a>
Adaptations for incorporating lamps to chairs	<a href="#">A47C 7/72</a>
Attachments for beds; Lighting, radio, telephone or the like connected to the bedstead	<a href="#">A47C 21/003</a>
Show cases or show cabinets with lighting devices	<a href="#">A47F 3/001</a>
Show windows or showcases	<a href="#">A47F 11/10</a>
Picture frames with illumination	<a href="#">A47G 1/0622</a>
Illuminated underlays for glasses or drinking vessels	<a href="#">A47G 23/0309</a>
Suction cleaners	<a href="#">A47L 9/30</a>
Medical instruments for examining body cavities or tubes	<a href="#">A61B 1/00</a>
Dental machines for boring or cutting; Machine parts specially adapted for dentistry; Illuminating devices or attachments	<a href="#">A61C 1/088</a>
Curing dental plastics prostheses by light action	<b>A61C13/15</b>
Massage adapted for simultaneous treatment with light	<a href="#">A61H 15/02</a>

Radiation therapy	<a href="#">A61N 5/06</a>
Clubs	<a href="#">A63B 15/02</a>
Illuminated balls	<a href="#">A63B 43/06</a>
Roller skates or skate boards	<a href="#">A63C 17/26</a>
Tops	<a href="#">A63H 1/24</a>
Toy vehicles	<a href="#">A63H 17/28</a>
Model railways	<a href="#">A63H 19/20</a>
Spanners, wrenches, screwdrivers	<a href="#">B25B 23/18</a>
Guiding devices for portable power. driven tools	<a href="#">B25F 5/021</a>
Hair clippers or dry shavers	<a href="#">B26B 19/46</a>
Accessories for razors	<a href="#">B26B 21/46</a>
Photographic composing machines	<a href="#">B41B 21/08</a>
Typewriters or selective printing machines	<a href="#">B41J 29/19</a>
Support for notepads with light emitting devices	<a href="#">B42D 5/007</a>
Writing implements	<a href="#">B43K 29/10</a>
Lamps for baking lacquers used in painting or artistic drawing	<a href="#">B44D 3/24</a>
Vehicle lighting or signalling	<a href="#">B60Q</a>
Railway vehicles	<a href="#">B61D 29/00</a>
Railway light signals	<a href="#">B61L 5/18</a>
Points, form signals or gates	<b>B61J9/00</b>
Cycles	<a href="#">B62J 6/00</a>

Ships	<a href="#">B63B 45/00</a>
Life-buoys, life-belts, lifejackets	<a href="#">B63C 9/20</a>
Aircraft	<a href="#">B64D 47/02</a>
Closures being provided with transient audible or visual signaling means, e.g. illuminating devices	<a href="#">B65D 51/248</a>
Main component parts of lifts in, or associated with, buildings or other structures; cars and travelling platforms (doors, gates or other apparatus controlling access to or exit from cars; Constructional features, e.g. walls assembly, decorative panels, comfort equipment, thermal or sound insulation; Lighting systems.	<a href="#">B66B 11/0233</a>
Apparatus for transferring liquids	<b>B67D5/66</b>
Sewing machines	<a href="#">D05B 79/00</a>
Road signs	<a href="#">E01F 9/016</a>
Road surface markings	<a href="#">E01F 9/053</a>
Tents or canopies	<a href="#">E04H 15/10</a>
Locks or keys	<a href="#">E05B 17/10</a>
Stove illumination	<a href="#">F24C 7/082</a>
Air conditioning systems	<a href="#">F24F 3/056</a>
Outlets for directing air into rooms or spaces combined with lighting fixtures	<a href="#">F24F 13/078</a>
Cooling or freezing apparatus	<a href="#">F25D 27/00</a>
Furnaces, kilns, ovens or retorts	<a href="#">F27D 21/02</a>
Night sights	<a href="#">F41G 1/35</a>
Levels	<a href="#">G01C 9/32</a>

Compasses	<a href="#">G01C 17/24</a>
Measuring arrangements	<a href="#">G01D 11/28</a>
Weighting apparatus	<a href="#">G01G 23/30</a>
Thermometers	<a href="#">G01K 1/06</a>
Speedometers	<a href="#">G01P 1/08</a>
Instruments for measuring	<a href="#">G01R 1/08</a>
Microscopes	<a href="#">G02B 21/06</a>
Magnifying glasses	<a href="#">G02B 25/02</a>
Viewing or reading apparatus	<a href="#">G02B 27/02</a>
Light pointers	<a href="#">G02B 27/20</a>
Optical instruments	<a href="#">G02B 27/34</a>
Spectacles	<a href="#">G02C 11/04</a>
Liquid crystals	<a href="#">G02F 1/1335</a>
Electrochromic cells	<a href="#">G02F 1/157</a>
Illuminating scenes for taking photographs	<a href="#">G03B 15/02</a>
Cameras	<a href="#">G03B 15/03</a>
Contact photographic printing	<a href="#">G03B 27/16</a>
Projection photographic printing	<a href="#">G03B 27/54</a>
Clocks	<a href="#">G04B 19/30</a>
Time indicated by electric lamps	<a href="#">G04C 17/02</a>
Time signalling by electric lamps	<a href="#">G04C 19/02</a>
Visible signalling or calling systems	<a href="#">G08B 5/36</a>

Actuation of fire alarms	<a href="#">G08B 17/103</a>
Traffic lights	<a href="#">G08G 1/095</a>
Illuminated signs	<a href="#">G09F 13/00</a>
Advertising or display means on roads or walls	<a href="#">G09F 19/22</a>
Aircraft advertising	<a href="#">G09F 21/10</a> , <a href="#">G09F 21/14</a>
Advertising on ships	<a href="#">G09F 21/20</a>
- Illuminated advertising on or in specific articles	<a href="#">G09F 23/04</a>
Indicating elements or instruments	<a href="#">G12B 11/00</a>
Illuminated switches	<a href="#">H01H 13/83</a>
Indicating lamps in circuit-breaker switches	<a href="#">H01H 73/14</a>
Indicating lamps in fuse	<a href="#">H01H 85/32</a>
Lighting of aerials	<a href="#">H01Q 1/06</a>
Coupling devices with build-in light bulbs	<a href="#">H01R 13/717</a>
Pulse counter or frequency divider indicators using glow-discharge lamps	<a href="#">H03K 21/20</a>
Illuminating of telephone substation equipment	<a href="#">H04M 1/22</a>

### **Special rules of classification within this group**

Document classified here has to be forwarded to the field corresponding to the article in which the lighting device is integrated

**F21V 33/0012**

## [N:Furniture (hospital beds [F21V 33/0072](#))]

### References relevant to classification in this group

*This subclass/group does not cover:*

Hospital beds	<a href="#">F21V 33/0072</a>
---------------	------------------------------

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Devices for lighting show cases or show cabinets	<a href="#">A47F 3/001</a>
Arrangements of light sources in shop window	<a href="#">A47F 11/10</a>

### Special rules of classification within this group

In this subclass, it is desirable to add the Indexing Code [F21W 2131/301](#)

## **F21V 33/0016**

### [N:Furnishing for windows and doors (sunshades [F21V 33/006](#))]

### References relevant to classification in this group

*This subclass/group does not cover:*

Sunshades	<a href="#">F21V 33/006</a>
-----------	-----------------------------

## **F21V 33/0024**

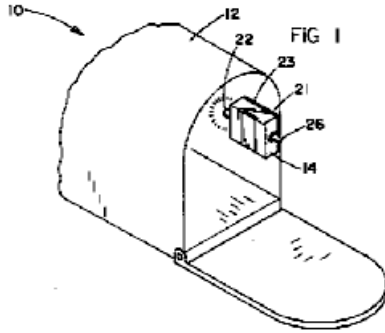
### Household or table equipment

#### Definition statement

*This subclass/group covers:*

e.g.US6033084

Retrofittable mailbox light system ([A47G 29/12](#), [A47G 29/1212](#): Mail or newspaper receptacles)



## F21V 33/0032

[N:Paintings, pictures or photographs; Frames therefor]

### References relevant to classification in this group

*This subclass/group does not cover:*

Picture frames with illumination	<a href="#">A47G 1/0622</a>
----------------------------------	-----------------------------

## F21V 33/0036

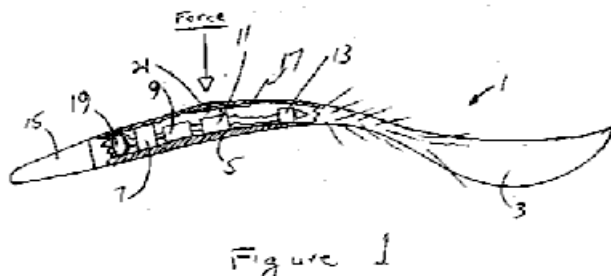
[N:Table-ware or table equipment, e.g. dishes, cutlery or trays]

### Definition statement

*This subclass/group covers:*

Illuminated table-ware, spoons, pastry servers

e.g.US2009147503



### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Drinking vessels or saucer used for table service with illumination means	<a href="#">A47G 2019/2238</a>
---	--------------------------------



## F21V 33/004

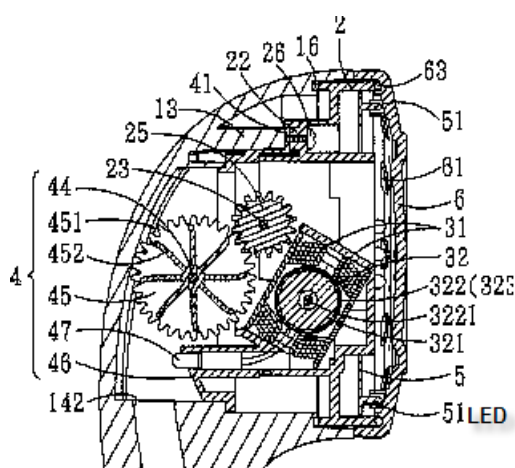
[N:Sanitary equipment, e.g. mirrors, showers, toilet seats or paper dispensers]

### Definition statement

*This subclass/group covers:*

Illustrative example of subject matter covered in this group.

e.g. EP2158972 - Illuminated shower heads



### References relevant to classification in this group

*This subclass/group does not cover:*

Brushes with additional arrangements	<a href="#">A46B 15/00</a>
Mirrors for household (also bathroom)	<a href="#">A47G 1/02</a>
Small mirrors (hand, pocket, cosmetic or shaving mirrors)	<a href="#">A45D 42/10</a>
Mirrors for medical purposes (e.g. dentistry)	<b>A61B1/247B</b>
Rear mirrors for vehicles	<a href="#">B60R 1/00</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Nozzles, spray heads or other outlets, with or without auxiliary devices such as valves, heating means	<a href="#">B05B 1/00</a>
--	---------------------------

## **F21V 33/0044**

**[N:Household appliances, e.g. washing machines or vacuum cleaners]**

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Refrigerators; cold rooms; ice-boxes; cooling or freezing apparatus not covered by any other subclass; lighting arrangement	<a href="#">F25D 27/00</a>
---	----------------------------

### **Special rules of classification within this group**

In this , it is desirable to add the Indexing Codes of [F21W 2131/305](#) for illumination for refrigerators

## **F21V 33/0048**

**[N:Office articles, e.g. bookmarks, desk lamps with drawers, stands for books or music scores]**

### **Special rules of classification within this group**

In this subclass, it is desirable to add the Indexing Codes of [F21W 2131/3005](#) for reading lights attachable to books

## **F21V 33/0056**

**[N:Audio equipment, e.g. music instruments, radios or speakers]**

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Details of transducers, loudspeakers or microphones	<b>H01R1/00</b>
---	-----------------

---

## F21V 33/006

[N:General building constructions or finishing work for buildings, e.g. roofs, gutters, stairs or floors; Garden equipment; Sunshades or parasols]

### Definition statement

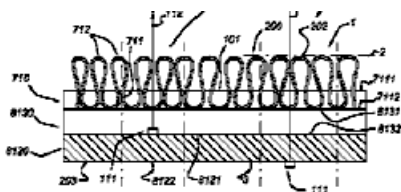
*This subclass/group covers:*

Stairs with illumination ([E04F 11/00](#))

Illuminated tiles ([E04F 15/00](#))

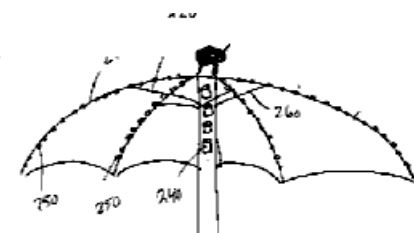
e.g. WO2010092509

Carpets; Stair runners; Bedside rugs; Foot mats ([A47G 27/02](#))



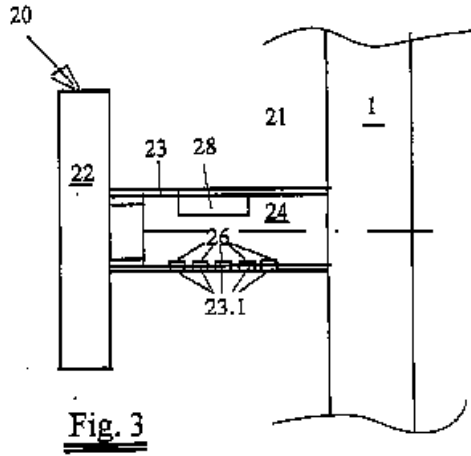
e.g. US2004212997

Sunshade, patio umbrella



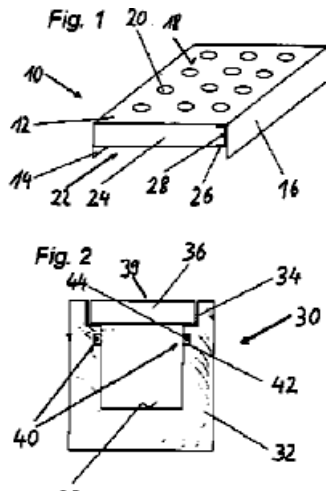
e.g. DE202010000087U

Illuminated handle for door, drawer



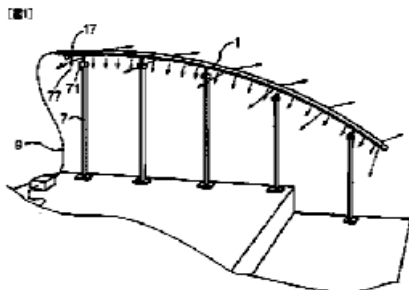
e.g. DE102007057214

Drain gutter with illumination



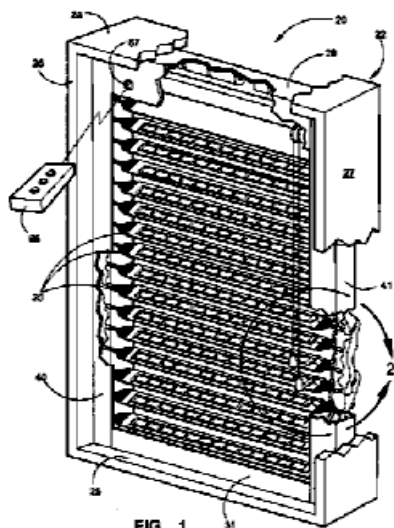
e.g. WO2011055488

Illuminated handrail ([E04F 11/00](#))



e.g. US2007175599

Illuminated window blind assembly ([E06B 9/386](#))



## References relevant to classification in this group

*This subclass/group does not cover:*

Illuminated umbrella	<a href="#">F21V 33/0004</a>
----------------------	------------------------------

## Informative references

*Attention is drawn to the following places, which may be of interest for search:*

General building constructions; walls; roofs; floors, ceiling, insulations or other protection of buildings	<a href="#">E04B</a>
Finishing work on buildings, e.g. stairs, floors	<a href="#">E04F</a>
Fixed or movable closures for openings in building, fences, e.g. doors, windows, blinds, gates	<a href="#">E06B</a>

## Special rules of classification within this group

In this subclass, it is desirable to add the Indexing Codes of subclasses [F21W 2111/08](#) for illuminated handrails

## **F21V 33/0076**

**[N:Safety or security signalisation, e.g. smoke or burglar**

## alarms, earthquake detectors; Self-defence devices]

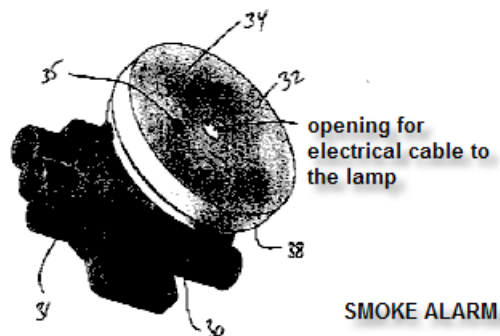
### Definition statement

*This subclass/group covers:*

Illumination associated with smoke detector ([G08B 17/10](#))

Illumination associated with burglar alarm detector ([G08B 13/00](#))

e.g. WO2011042020



### Relationship between large subject matter areas

Sighting devices, night sights, e.g. luminescent, combined with light source, e.g. spot-light for illuminating the target, e.g. flash lights or not covered by this group and classified in [F41G 1/35](#)

## F21V 33/008

[N:Leisure, hobby or sport articles, e.g. toys, games or first-aid kits; Hand tools; Toolboxes]

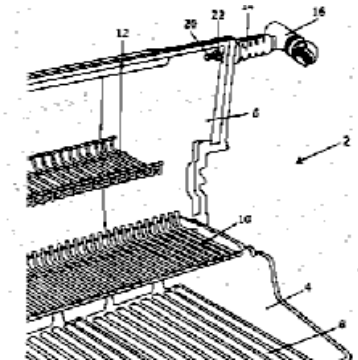
### Definition statement

*This subclass/group covers:*

Illumination for barbecues

Illumination for first aid kits or toolboxes

e.g. US2004228117



**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Apparatus for physical training, gymnastics, swimming, climbing or fencing; ball games; training equipment	<a href="#">A63B</a>
Skates; skis; roller skates, design or layout or courts, rinks or the like	<a href="#">A63C</a>
Toys, e.g. tops, dolls, hoops, building blocks	<a href="#">A63H</a>

**F21V 33/0088**

**[N: Ventilating systems (lighting fixtures combined with outlets for air treatment systems [F24F 13/078](#))]**

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Lighting fixtures combined with outlets for air treatment systems	<a href="#">F24F 13/078</a>
---	-----------------------------

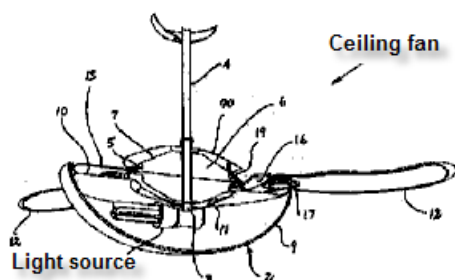
**F21V 33/0096**

**[N: Fans, e.g. ceiling fans (forced cooling for lighting devices [F21V 29/02](#) )]**

**Definition statement**

*This subclass/group covers:*  
 Combined light fitting and ceiling fans

e.g. WO2007006096



### References relevant to classification in this group

*This subclass/group does not cover:*

Air forced cooling for lighting devices	<a href="#">F21V 29/02</a>
---	----------------------------

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Ceiling fans	<a href="#">F04D 25/088</a>
--------------	-----------------------------

## F21V 35/00

### Candle holders

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Candles per se	<a href="#">C11C 5/00</a>
Non-electric lighting devices or systems employing a point-like light source	<a href="#">F21S 13/00</a>

### Special rules of classification within this group

In this subclass, it is desirable to add the Indexing Codes of [F21W 2121/002](#) for candle holders for birthday or anniversary cakes



## F21V 35/003

[N:Special means for attaching the candle to the candle holder]

### References relevant to classification in this group

*This subclass/group does not cover:*

Fastening of light sources or lampholders	<a href="#">F21V 19/00</a>
---	----------------------------

## F21V 36/00

Arrangements of mantles or other incandescent bodies on burners (attaching to lamp parts [F21V 19/06](#))

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Attaching to lamp parts	<a href="#">F21V 19/06</a>
-------------------------	----------------------------

## F21V 37/00

Details of lighting devices employing combustion as light source, not otherwise provided for; Night lamps; Votive lamps

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Burners for combustion of a gas	<a href="#">F23D 14/00</a>
---------------------------------	----------------------------

## F21V 37/0025

[N:vegetal ([F21V 37/0033](#) takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Combination of mineral and vegetal	<a href="#">F21V 37/0033</a>
------------------------------------	------------------------------

---

## F21V 37/0029

[N:mineral ([F21V 37/0033](#) takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Combination of mineral and vegetal	<a href="#">F21V 37/0033</a>
------------------------------------	------------------------------

## F21V 37/0079

[N:Fastening of chimneys ([F21V 37/0087](#) takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Devices for lifting chimneys or cover glasses	<a href="#">F21V 37/0087</a>
---	------------------------------

## F21V 37/0083

[N:Fastening of cover glasses ([F21V 37/0087](#) takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Devices for lifting chimneys or cover glasses	<a href="#">F21V 37/0087</a>
---	------------------------------

## F21V 37/02

Special adaptation for protection against draughts (for lanterns [F21L 19/006](#)); Draft controllers

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

For lanterns	<a href="#">F21L 19/006</a>
--------------	-----------------------------

## **F21V 99/00**

**Subject matter not provided for in other groups of this subclass**