B60Q

ARRANGEMENT OF SIGNALLING OR LIGHTING DEVICES, THE MOUNTING OR SUPPORTING THEREOF OR CIRCUITS THEREFOR, FOR VEHICLES IN GENERAL

Definition statement

This place covers:

The arrangement of lighting or signalling devices with relationship to the vehicle or to each other.

The mounting or supporting of lighting and signalling devices on the vehicle.

The circuits therefor.

The switches therefor.

The control and signal-initiating means therefor.

The monitoring therefor.

The devices mentioned being:

• for illuminating areas inside or outside a vehicle or for giving signals to the outside of the vehicle or to the vehicle occupants; and

• mounted to the vehicle in a fixed or adjustable manner or supported by the vehicle with the provision of being portable.

Relationships with other classification places

Subclass B60Q covers arrangements of lighting and signalling devices as a whole, i.e. as a complete unit dedicated to a given lighting or signalling function.

The relative arrangement of devices dedicated to different lighting or signalling functions within a single housing is also covered by B60Q.

Optical components (e.g. lenses, light sources) constituting of the lighting and signalling device itself are classified in other relevant classes and subclasses.

Arrangements of these optical components in relation to each other in order to generate a specific optical beam are covered by F21S 41/00, F21S 43/00.

Subclass B60Q covers arrangements of lighting and signalling devices mounted on vehicles in general, but not the arrangements of lighting and signalling devices specifically adapted to particular types of vehicles other than cars, trucks and buses; these are classified in the relevant subclasses for other types of vehicles. An exception to this are the arrangements of lighting and signalling devices specifically adapted to motorcycles which are classified in both subclasses B60Q and B62J.

Circuits for lighting and signalling devices that may have an application other than in a vehicle are also classified in H05B.

Subclass B60Q covers the mechanical arrangement of switches only if they apply to vehicle lighting and signalling. However B60Q covers the mechanical arrangement of all steering column stalk switches. Switches that may have an application other than in a vehicle are also classified in H01H.
References

Informative references

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrangements of cameras in vehicles</td>
<td>B60R 1/00</td>
</tr>
<tr>
<td>Vehicle electric circuits in general</td>
<td>B60R 16/00</td>
</tr>
<tr>
<td>Arrangement of lighting devices for rail vehicles</td>
<td>B61D 29/00</td>
</tr>
<tr>
<td>Arrangement of signalling and lighting devices for bicycles</td>
<td>B62J 6/00</td>
</tr>
<tr>
<td>Arrangement of signalling and lighting devices for ships</td>
<td>B63B 45/00</td>
</tr>
<tr>
<td>Arrangement of signalling and lighting devices for aircrafts</td>
<td>B64D 47/02</td>
</tr>
<tr>
<td>Mounting means</td>
<td>F16B</td>
</tr>
<tr>
<td>Lighting or signalling devices per se</td>
<td>F21S, F21V</td>
</tr>
<tr>
<td>Inter-vehicle communication for warning purposes</td>
<td>G08G 1/00</td>
</tr>
<tr>
<td>Illumination of logos, symbols, advertisement</td>
<td>G09F</td>
</tr>
<tr>
<td>Electric switches per se</td>
<td>H01H</td>
</tr>
<tr>
<td>Electric lighting not otherwise provided for</td>
<td>H05B</td>
</tr>
</tbody>
</table>

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED</td>
<td>Light Emitting Diode</td>
</tr>
</tbody>
</table>

Synonyms and Keywords

In patent documents, the following abbreviations are often used:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRL</td>
<td>Daytime Running Light</td>
</tr>
</tbody>
</table>

B60Q 1/00

Arrangements or adaptations of optical signalling or lighting devices (for lighting vehicle interior B60Q 3/00; circuit arrangements for electric light sources in general H05B 47/00))

Definition statement

This place covers:

The arrangement or adaptation of non-portable devices on vehicles dedicated to:
- illuminate areas outside of a vehicle in visible and non-visible wavelength range;
- give optical signals to the outside of the vehicle.

The mounting thereof, also for adjustable devices.

The circuits thereof.

The switches thereof.

The manual or automatic control and signal-initiating means thereof.
Further details of subgroups

B60Q 1/007
This subgroup covers only devices in which the cap has no mechanical link (no holding function) with the bulb. If the cap serves to hold the bulb, it is only classified in F21S 41/192 or F21S 43/19 and subgroups.

B60Q 1/0088
This subgroup covers only connections to the vehicle power supply or connections of several lamp units with each other.

B60Q 1/0408
Arrangements on headlights for positioning or indexing other vehicle parts (e.g. bumper cover or wing) are classified here and in the field relating to the other parts, e.g. B62D 25/00, B60R 19/00.

B60Q 1/0425
This subgroup covers arrangements in which the headlight can be entirely swivelled around an axis (for instance to change the bulb). Small swivelling for adjustment purposes B60Q 1/045, B60Q 1/068.

B60Q 1/076, B60Q 1/115, B60Q 1/122
Details of headlight adjustment by electric actuating means, e.g. motors, shafts, ball-joints, are classified in B60Q 1/076 even for automatic systems because B60Q 1/115, B60Q 1/122 are intended for the control systems only excluding this general features.

B60Q 1/08 and its subgroups, B60Q 1/1423, B60Q 1/143
Documents in these subgroups are also classified in B60Q 2300/00 according to the parameters used for the automatic adjustment or switching. However, classification in B60Q 2300/00 is only done for parameters whose contribution in the automatic process is clearly shown. Statements such as that “parameter x could be used for the adjustment” or “parameter x is measured by a sensor and fed into the control unit” without further details are not sufficient for classification in B60Q 2300/00. B60Q 2300/00 is not used for other subgroups than B60Q 1/08 and its subgroups, B60Q 1/1423, B60Q 1/143.

B60Q 1/12, B60Q 1/18
Devices in which automatic cornering is done by an additional, separate headlamp are classified in B60Q 1/12 and B60Q 1/18.

B60Q 1/2665
If of interest classification is also given in B60R 1/1207.

B60Q 1/2673
Although portable and not mounted on vehicles, lighting and signalling devices worn by a (motorcycle) driver or passenger are classified here, but only when the device repeats or replaces a lighting or signalling function of the vehicle.

References

Limiting references
This place does not cover:

| Arrangement of lighting devices for vehicle interior, the mounting or supporting thereof or circuits therefor | B60Q 3/00 |
Assembling headlights on an assembly line  B62D 65/16
Calibration of headlight  G01M 11/06
Control circuits of light sources for camera capture  H05B 41/30

**Informative references**

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

<table>
<thead>
<tr>
<th>Horn switches integrated in steering wheel covers with tear lines</th>
<th>B60R 21/21658</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear selector levers</td>
<td>F16H 59/02</td>
</tr>
</tbody>
</table>

**B60Q 3/00**

Arrangement of lighting devices for vehicle interiors; Lighting devices specially adapted for vehicle interiors

**Definition statement**

This place covers:

Lighting devices in vehicles dedicated to illuminate in visible and non-visible wavelength range areas or parts located inside a vehicle, e.g. in the passenger or engine compartment.

The arrangement thereof.

The mounting thereof.

The circuits therefor.

The switches specifically adapted therefor.

The manual or automatic control means therefor.

**Relationships with other classification places**

Arrangements or adaptations of lighting devices for the interior of aircrafts (B64D 47/02) and rail vehicles (B61D 29/00) are classified also in B60Q 3/00 and subgroups, because they are similar to arrangements for buses.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Lighting devices for door or window locks</th>
<th>E05B 17/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-portable lighting devices in general</td>
<td>F21S</td>
</tr>
<tr>
<td>Details of lighting devices, of general application</td>
<td>F21V</td>
</tr>
<tr>
<td>Lighting devices for individual instruments, e.g. speedometers</td>
<td>G01D 11/28, G01D 13/265, G01D 13/28</td>
</tr>
</tbody>
</table>
Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED</td>
<td>Light Emitting Diode</td>
</tr>
</tbody>
</table>

B60Q 3/10

for dashboards

Definition statement

This place covers:

Lighting devices for illuminating the dashboard or parts thereof, from inside or outside the dashboard.

Circuits and control means therefor.

Relationships with other classification places

Lighting devices internal to instruments are classified in G01D 11/28, G01D 13/28, but lighting devices for illuminating onto or around the instruments from outside the instruments are classified in B60Q 3/10 and subgroups.

References

Informative references

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

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrangement or adaptations of instruments in vehicles</td>
<td>B60K 35/00</td>
</tr>
<tr>
<td>Arrangement of instruments or fittings on dashboard</td>
<td>B60K 37/00</td>
</tr>
<tr>
<td>Lighting devices for individual instruments</td>
<td>G01D 11/28, G01D 13/28</td>
</tr>
<tr>
<td>Internal illumination of Liquid Crystal Displays</td>
<td>G02F 1/00</td>
</tr>
<tr>
<td>Illuminated signs</td>
<td>G09F 13/00</td>
</tr>
</tbody>
</table>
B60Q 3/12
lighting onto the surface to be illuminated

Definition statement
This place covers:
Lighting devices or arrangements where the light impinges on the dashboard or parts thereof.

B60Q 3/14
lighting through the surface to be illuminated

Definition statement
This place covers:
Backlight arrangements of the dashboard or parts thereof.
B60Q 3/16
Circuits; Control arrangements

Definition statement

This place covers:
Circuits or control arrangements for the illumination of the dashboard as a whole or parts thereof, e.g. illuminating the dashboard when starting the vehicle, changing illumination colors for decoration purposes.

Circuits or control arrangements for the illumination of the instruments and buttons when it is not related to the function of the instruments or buttons themselves, e.g. adjusting the color of the illumination of instruments or buttons depending on the time of the day.

References

Informative references

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

Circuits for electric light sources in general H05B 47/00, H05B 39/00

B60Q 3/18
for varying the light intensity

Definition statement

This place covers:
Circuits or control arrangements for varying the intensity of illumination onto or from the dashboard, e.g. to compensate for variations in ambient light intensity.

References

Informative references

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

Controlling light sources in displays G09G 3/06, G09G 3/22

B60Q 3/20
for lighting specific fittings of passenger or driving compartments; mounted on specific fittings of passenger or driving compartments (lighting for dashboards B60Q 3/10)

Definition statement

This place covers:
Lighting devices associated with a particular vehicle fitting, either by being mounted on or in the fitting, or by illuminating from or onto the fitting.
References

Limiting references
This place does not cover:

| Lighting devices on or for dashboards | B60Q 3/10 |

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

| Receptacle for food or beverages, e.g. cup holders | B60N 3/10 |

B60Q 3/208
Sun roofs; Windows

References

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

| Vehicle windows | B60J 1/00 |
| Vehicle sun roofs | B60J 7/00 |

B60Q 3/217
Doors, e.g. door sills; Steps

References

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

| Lighting devices for indicating vehicle sides to the exterior, e.g. mounted on doors or steps | B60Q 1/32 |
| Vehicle doors | B60J 5/00 |

Special rules of classification
Lighting devices mounted on doors or steps may be classified in both B60Q 3/217 and B60Q 1/32 if light can be cast inside and outside the vehicle, e.g. depending on whether the door is open or closed.

B60Q 3/225
Small compartments, e.g. glove compartments

References

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

| Stowing small appliances in vehicles | B60R 7/00 |
B60Q 3/233
Seats; Arm rests; Head rests

References

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle seats</td>
<td>B60N 2/00</td>
</tr>
<tr>
<td>Arm-rests for vehicle seats</td>
<td>B60N 2/75</td>
</tr>
<tr>
<td>Head-rests for vehicle seats</td>
<td>B60N 2/80</td>
</tr>
</tbody>
</table>

B60Q 3/242
Safety belts; Body harnesses

References

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckles</td>
<td>A44B 11/00</td>
</tr>
<tr>
<td>Vehicle safety belts or harnesses</td>
<td>B60R 22/00</td>
</tr>
</tbody>
</table>

B60Q 3/252
Sun visors

References

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun visors</td>
<td>B60J 3/02</td>
</tr>
</tbody>
</table>

B60Q 3/258
Rear-view mirrors

References

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signalling devices mounted on exterior side mirrors</td>
<td>B60Q 1/26</td>
</tr>
<tr>
<td>Rear-view mirrors</td>
<td>B60R 1/02</td>
</tr>
<tr>
<td>Vehicle mirrors assemblies combined with other articles</td>
<td>B60R 1/12</td>
</tr>
</tbody>
</table>

Special rules of classification
Lighting devices in vehicle interior combined with rear-view mirrors are also classified in B60R 1/12.
**B60Q 3/267**

Door handles; Hand grips

**References**

**Informative references**

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

| Signalling devices mounted on exterior door handles | B60Q 1/26 |
| Vehicle hand grips | B60N 3/02 |
| Illuminating devices on, or for, locks or keys | E05B 17/10 |
| Vehicle inner door handles | E05B 85/12 |

**B60Q 3/275**

Smoking-related fittings, e.g. cigarette lighters or ashtrays

**References**

**Informative references**

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

| Ashtrays in vehicles | B60N 3/08 |
| Cigarette lighters | B60N 3/14 |

**B60Q 3/283**

Steering wheels; Gear levers

**References**

**Informative references**

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

| Steering wheels | B62D 1/04 |
| Gear levers | F16H 59/02 |
| Indicating ratio on gear levers | F16H 63/42 |

**B60Q 3/292**

Ignition locks

**References**

**Informative references**

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

| Illuminating devices on, or for, locks or keys | E05B 17/10 |
**B60Q 3/30**

for compartments other than passenger or driving compartments, e.g. luggage or engine compartments

**Definition statement**

_This place covers:_

Lighting devices for illuminating the inside of the engine compartment, the vehicle trunk, pick-up truck beds or vehicle cargo areas. The device may be dedicated to this single illuminating function or combined with a signalling or illuminating function towards the vehicle exterior.

Systems switching on the device according to the movement of the hood or trunk door.

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**B60Q 3/35**

**Portable lighting devices**

**Definition statement**

_This place covers:_

Lighting devices intended to be attached to the vehicle in their normal lighting use and that can be detached to illuminate other areas, e.g. outside the vehicle.

**References**

_Informative references_

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

| Portable lighting devices in general | F21L |
**B60Q 3/40**

specially adapted for specific vehicle types

**Definition statement**

*This place covers:*

Lighting devices specially adapted in their size, structure, function, arrangement or control to be used or fulfil special needs of specific vehicle types, e.g. emergency lighting in buses.

**B60Q 3/41**

for mass transit vehicles, e.g. buses

**Definition statement**

*This place covers:*

Lighting devices specially adapted for buses, trains, or aircrafts.

**Relationships with other classification places**

Lighting devices for the interior of aircrafts are classified also in B64D 47/02. Lighting devices for the interior of rail vehicles are classified also in B61D 29/00.

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Lighting devices for rail vehicles</th>
<th>B61D 29/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft passenger or crew accommodation</td>
<td>B64D 11/00</td>
</tr>
<tr>
<td>Aircraft signal or lighting devices</td>
<td>B64D 47/02</td>
</tr>
</tbody>
</table>

**B60Q 3/43**

General lighting

**Definition statement**

*This place covers:*

Lighting devices of a large size for lighting the whole or large parts of the passenger compartment, for illumination purposes or for generating a particular ambience.
References

Informative references

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

| General lighting in personal vehicles | B60Q 3/74 |

B60Q 3/44

Spotlighting, e.g. reading lamps

Definition statement

This place covers:

Lighting devices for illuminating individual areas, of restricted surface, and specially adapted to mass transit vehicles, e.g. spherical type of reading lamps that can be oriented at 360 degrees; cluster of reading lamps associated with air conditioning units.

B60Q 3/46

Emergency lighting, e.g. for escape routes

Definition statement

This place covers:

Active or passive illuminated marking to guide passengers towards exits.
Lighting devices with stand-alone electrical supply to be activated by failure of the main vehicle power supply.

References

Informative references

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

| Signalling systems in general | G08B 7/00 |
| Illuminated signs in general   | G09F 13/00 |

B60Q 3/47

Circuits; Control arrangements

Definition statement

This place covers:

Circuits and control arrangements specifically adapted to mass transit vehicles, e.g. for creating different ambiences in different parts of a vehicle, for changing light characteristics for waking up passengers in an aircraft.

References

Informative references

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

| Circuits for electric light sources in general | H05B 47/00, H05B 39/00 |

B60Q 3/49

for vehicles with non-fixed roofs, e.g. convertibles

Definition statement

This place covers:

Lighting devices specially adapted for the moving part of the non-fixed roof, e.g. adapted to the soft material of a convertible, with an electric supply adapted to the moving roof.
References

Informative references

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

| Vehicle non-fixed roofs | B60J 7/00 |

B60Q 3/50

Mounting arrangements (for compartments other than passenger or driving compartments B60Q 3/30; specially adapted for specific vehicle types B60Q 3/40)

Definition statement

This place covers:

Mounting arrangements of lighting devices in the passenger compartment, e.g. on an arm, embedded in interior trim panel.

Details of fastening means for mounting the lighting device as a whole to the vehicle interior.

Arrangements for connecting the lighting device as a whole to the vehicle electrical wiring.
References

Limiting references

This place does not cover:

| Mounting arrangements of lighting device in vehicle compartments other than the passenger compartment | B60Q 3/30 |
| Mounting arrangements of lighting device in specific vehicle types | B60Q 3/40 |
| Fastening of component parts of lighting devices in general | F21V 17/00, F21V 19/00 |

Informative references

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

| Fastening of component parts of lighting devices in general | F21V 17/00, F21V 19/00 |

B60Q 3/51

for mounting lighting devices onto vehicle interior, e.g. onto ceiling or floor

Definition statement

This place covers:

Arrangements for mounting lighting devices onto vehicle interior panels or liners, e.g. for mounting a dome lamp in a hole of a panel or liner.

B60Q 3/53

Modular mounting systems, e.g. using tracks, rails or multiple plugs

Definition statement

This place covers:

Arrangements for mounting lighting devices at different places.
Arrangements for mounting different types of lighting devices at a given place.

References

Informative references

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

| Supporting lighting devices displaceable along a guiding element | F21V 21/34 |
**B60Q 3/54**

**Lighting devices embedded in interior trim, e.g. in roof liners**

**Definition statement**

*This place covers:*

Arrangements where at least some components of the lighting device are part of a vehicle interior trim element, e.g. trim layer is light diffusing, light guide is integrated into the trim element layers.

![Diagram](image1)

**References**

**Informative references**

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

| Lighting devices mounted on arms or standards in general | F21V 21/10 |
| Adjusted mounting for lighting devices in general        | F21V 21/14 |

**B60Q 3/56**

**Lighting devices mounted on elongate supports, e.g. on flexible arms**

**Definition statement**

*This place covers:*

Arrangements of elongate supports for bringing the lighting device closer to its place of use, e.g. telescopic, articulated arms.

![Diagram](image2)
B60Q 3/57
Retractable or concealable lighting devices

Definition statement

This place covers:
Arrangements where the lighting device is retractable or concealable as a whole with respect to the vehicle part on which it is mounted.

References

Informative references

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

| Movable parts in lighting devices for vehicle interiors for manually controlling the light emission | B60Q 3/85 |
**B60Q 3/59**

**Lighting devices mounted in the vehicle interior and adapted for portability**

**Definition statement**

*This place covers:*

Arrangements whereby in its normal use, the lighting device is attached to the vehicle interior and provides light therefrom, and having possibly to be taken out of the mounting location as a portable lighting device, with or without a remaining link to the vehicle.

Arrangements of vehicle interior specially adapted for holding self-powered portable lighting devices that can be recharged from vehicle, or for holding portable lighting devices permanently powered from the vehicle, e.g. by way of extensible cables.

**Relationships with other classification places**

Portable lighting devices characterised by means for in situ recharging of the batteries or cells are classified in [F21L 4/08](https://www.wipo.int/classifications/cpc/en/search#query=classifying%20places%3AF21L%204%2F08).

**References**

*Informative references*

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

| Portable lighting devices in general | [F21L](https://www.wipo.int/classifications/cpc/en/search#query=classifying%20places%3AF21L) |
Special rules of classification

Arrangements of self-powered lighting devices that can be recharged from the vehicle are also classified in B60Q 3/88.

B60Q 3/62

using light guides

References

Informative references

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

<table>
<thead>
<tr>
<th>Use of light guides in lighting devices in general</th>
<th>F21V 2200/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light guides in general</td>
<td>G02B 6/00</td>
</tr>
</tbody>
</table>

B60Q 3/66

for distributing light among several lighting devices

Definition statement

This place covers:

Arrangements with one or several light guides for distributing the light of a single light source to several separated surfaces that illuminate different areas in the vehicle or provide different illumination functions.

B60Q 3/68

using ultra-violet light

Definition statement

This place covers:

Arrangements in which ultra-violet light impinges on luminescent areas in the vehicle interior.
References

Informative references

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminescent materials</td>
<td>C09K 11/00</td>
</tr>
<tr>
<td>Electroluminescent light sources per se</td>
<td>H05B 33/00</td>
</tr>
</tbody>
</table>

**B60Q 3/72**

for preventing the driver from being dazzled

**Definition statement**

This place covers:

Arrangements in which visible or non-visible light is emitted in the vehicle interior in order to prevent the driver from being dazzled or to reduce eyestrain, e.g. by adjusting the light intensity falling on the driver's eyes according to the light level in front of the vehicle.

**B60Q 3/74**

for overall compartment lighting; for overall compartment lighting in combination with specific lighting, e.g. room lamps with reading lamps (general lighting mounted on specific fittings **B60Q 3/20**; general lighting for mass transit vehicles **B60Q 3/43**)

**Definition statement**

This place covers:

Details and arrangements of lighting devices for illuminating or creating a light ambience in large areas of the vehicle interior, e.g. starry sky lighting effect.

Devices combining room lamps and reading lamps, e.g. dome cluster.
References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B60Q 3/20</td>
<td>General lighting mounted on specific fittings</td>
</tr>
<tr>
<td>B60Q 3/43</td>
<td>General lighting for mass transit vehicles</td>
</tr>
</tbody>
</table>

B60Q 3/76

for spotlighting, e.g. reading lamps (spotlighting on or for specific fittings B60Q 3/20; spotlighting in mass transit vehicles B60Q 3/44)

Definition statement
This place covers:
Lighting devices towards small surfaces, providing directional or focused light, e.g. using lenses or blends.

References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B60Q 3/20</td>
<td>Spotting on or for specific fittings</td>
</tr>
<tr>
<td>B60Q 3/44</td>
<td>Spotting in mass transit vehicles, e.g. reading lamps orientable at 360 degrees</td>
</tr>
</tbody>
</table>

B60Q 3/78

for generating luminous strips, e.g. for marking trim component edges

Definition statement
This place covers:
Arrangements using elongated light sources, light guides or series of lights sources to create illuminated lines, e.g. along or around parts.
References

Informative references

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

| Lighting devices using a strip or string of light sources | F21S 4/00 |

B60Q 3/80

Circuits; Control arrangements (for dashboards B60Q 3/16; for mass transit vehicles B60Q 3/47)

Definition statement

This place covers:

Vehicle circuit architecture specifically designed for interior lighting devices.

Electrical arrangements within lighting devices.

Means for plugging the lighting device directly to a vehicle socket.

Switch arrangements specially designed for vehicle interior lighting devices.

Control arrangements for automatically switching on or off the lighting device, for automatically changing the illumination characteristics.

Control arrangements for manually changing the illumination characteristics.

References

Limiting references

This place does not cover:

| Circuits and control arrangements for dashboards | B60Q 3/16 |
| Circuits and control arrangements for mass transit vehicles | B60Q 3/47 |

Informative references

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

| Circuits for electric light sources in general | H05B 47/00, H05B 39/00 |

Special rules of classification

Arrangements for connecting the lighting device as a whole to the vehicle electrical wiring are classified in B60Q 3/50 and subgroups.
B60Q 3/82
Switches specially adapted for vehicle interior lighting, e.g. switching by tilting the lens

Definition statement
This place covers:
Switching arrangements with special application for vehicle interior lamps, e.g. three-position switches, switching by rotating the lamp housing.

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

| Switches in general | H01H |

Special rules of classification
Switching arrangements by closing or opening small compartments are also classified in B60Q 3/225.
Switching arrangements by tilting sun shades or courtesy mirrors are also classified in B60Q 3/252.
B60Q 3/88
Means for plugging to the electrical power supply of the vehicle, e.g. by using cigarette lighter sockets

Definition statement
This place covers:
Arrangements for plugging vehicle interior lighting devices into vehicle sockets for use or recharge.

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

<table>
<thead>
<tr>
<th>Portable lighting devices in general with means for in situ recharging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F21L 4/08</td>
</tr>
</tbody>
</table>

B60Q 5/00
Arrangements or adaptations of acoustic signal devices {(sound producing devices in general G10K)}

Definition statement
This place covers:
The arrangement or adaptation of acoustic devices for providing signals to the outside of the vehicle.
Vehicle horns to repel animals
The mounting thereof.
The circuits therefor.
The switches therefor.

Relationships with other classification places
Arrangements or adaptations of acoustic devices for providing signals to the inside of the vehicle, e.g. to the driver, are classified in B60Q 9/00.
References

Informative references

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

| Acoustic devices to repel animals in general | A01M 29/00 |
| Horn switches integrated in steering wheel covers with tear lines | B60R 21/21658 |
| Sound producing devices per se, producing sound not determined by the supply frequency | G10K |
| Sound producing devices per se, e.g. loudspeakers or like acoustic electromechanical transducers | H04R |

B60Q 7/00

Arrangement or adaptation of portable emergency signal devices on vehicles

Definition statement

This place covers:

The arrangement or adaptation of portable emergency signal devices on vehicles, whereby the device is:

- stored in the vehicle when not in use, and
- placed remote from the vehicle, or on extending parts or overhanging loads of the vehicle when in use.

Relationships with other classification places

The arrangement or adaptation of portable or non-portable emergency signal devices placed on vehicles when in use is classified in B60Q 1/52.

References

Informative references

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

| Arrangements for enforcing caution on roads, e.g. marker posts or traffic signals | E01F 9/00 |
| Signs in general | G09F |
| Reflecting warning triangles | G09F 13/16 |

B60Q 9/00

Arrangements or adaptations of signal devices not provided for in one of the preceding main groups, {e.g. haptic signalling}

Definition statement

This place covers:

The arrangement or adaptation of devices for providing signals, e.g. acoustic, optical or haptic signals, to the driver or the passengers of the vehicle, whereby the signal is not related to a particular vehicle function or parameter.

Specific signalling devices for anti-collision purposes.
Specific signalling devices for parking purposes.

Specific signalling devices to prevent vehicle battery discharge.

**Relationships with other classification places**

The subject-matter to be classified in this main group are devices that produce specific, elaborated signals.

For instance, a device for analysing a traffic environment to assess potential collision situations that merely generates an optical or acoustic signal to the driver when a potential collision situation is assessed is not classified in B60Q 9/00, but only in the group corresponding to traffic control for anti-collision purposes: G08G 1/16. If the device generates a signal that varies according to the situation, it is classified in B60Q.

Signalling devices to the driver related to a particular vehicle function, e.g. start of automatic braking, or to a vehicle parameter, e.g. reaching a particular speed, are not classified in B60Q 9/00, but only in the corresponding vehicle function group of class B60.

**References**

**Limiting references**

This place does not cover:

| Instruction means for parking or steering aid | B62D 15/027, B62D 15/029 |

**Informative references**

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

| Means for informing the driver, warning the driver or prompting driver intervention in vehicle conjoint control systems | B60W 50/14 |
| Anti-collision systems | G08G 1/16 |

**B60Q 11/00**

Arrangements of monitoring devices for devices provided for in groups B60Q 1/00 - B60Q 9/00 {testing of electric installations on road vehicle G01R 31/00}

**References**

**Limiting references**

This place does not cover:

| Testing of alignment of vehicle headlights at manufacture | G01M 11/06 |
| Testing of electric installations on road vehicle | G01R 31/006 |

**Informative references**

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

| Detecting lamp failure in a circuit in general | H05B 47/20 |