

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B60 VEHICLES IN GENERAL

(NOTE omitted)

#### B60Q ARRANGEMENT OF SIGNALLING OR LIGHTING DEVICES, THE MOUNTING OR SUPPORTING THEREOF OR CIRCUITS THEREFOR, FOR VEHICLES IN GENERAL

##### NOTES

1. This subclass also covers the operation and control of lighting devices, for example:
  - arrangement or adaptation of lighting switches or signal-initiating means for vehicles;
  - control of lighting devices in relation to the vehicle as a whole, e.g. for levelling, swivelling or aiming.
2. This subclass does not cover optical, mechanical, thermal or electrical arrangement of elements within lighting devices, which are covered by groups [F21S 41/00](#) – [F21S 45/00](#).
3. Attention is drawn to the Note following the title of class [B60](#).

##### WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

|                            |            |                            |
|----------------------------|------------|----------------------------|
| <a href="#">B60Q 1/128</a> | covered by | <a href="#">B60Q 1/124</a> |
| <a href="#">B60Q 1/132</a> | covered by | <a href="#">B60Q 1/124</a> |
| <a href="#">B60Q 1/136</a> | covered by | <a href="#">B60Q 1/124</a> |

|             |   |               |  |
|-------------|---|---------------|--|
| <b>1/00</b> | <b>Arrangement of optical signalling or lighting devices, the mounting or supporting thereof or circuits therefor (for lighting vehicle interior <a href="#">B60Q 3/00</a>)</b>                         | <b>1/0094</b> | <b>. . {Arrangement of electronic circuits separated from the light source, e.g. mounting of housings for starter circuits for discharge lamps (arrangements being part of the light source holder <a href="#">F21V 17/06</a>, <a href="#">F21S 43/195</a>)}</b> |
| 1/0005      | . {Devices preventing the lights from becoming dirty or damaged, e.g. protection grids or cleaning by air flow (windshield wipers for cleaning optical devices of vehicles <a href="#">B60S 1/04</a> )} | 1/02          | . the devices being primarily intended to illuminate the way ahead or to illuminate other areas of way or environments   |
| 1/0011      | . {with light guides for distributing the light between several lighting or signalling devices}   | 1/04          | . . the devices being headlights   |
| 1/0017      | . {Devices integrating an element dedicated to another function}  | 1/0408        | . . . {built into the vehicle body, e.g. details concerning the mounting of the headlamps on the vehicle body ( <a href="#">B60Q 1/0491</a> , <a href="#">B60Q 1/05</a> take precedence, integrated front ends <a href="#">B62D 25/00</a> )}                     |
| 1/0023      | . . {the element being a sensor, e.g. distance sensor, camera}  | 1/0416        | . . . . {the housing being mounted on the vehicle body using rails}  |
| 1/0029      | . {Spatial arrangement}   | 1/0425        | . . . . {the housing being swivel mounted on the vehicle body}   |
| 1/0035      | . . {relative to the vehicle}   | 1/0433        | . . . . {the housing being fastened onto the vehicle body using screws (adjustable headlamp by rotation of a screw <a href="#">B60Q 1/0683</a> )}  |
| 1/0041      | . . {of several lamps in relation to each other}  | 1/0441        | . . . . {the housing being fastened onto the vehicle body using means other than screws}   |
| 1/0047      | . . . {Signalling unit mounted on a headlamp unit}  | 1/045         | . . . . {with provision for adjusting the alignment of the headlamp housing with respect to the vehicle body}  |
| 1/0052      | . . . {concentric}  | 1/0458        | . . . . {the front cover being directly mounted onto the vehicle body}   |
| 1/0058      | . . . {Stacked, i.e. one lamp located behind the other in the optical axis direction}   | 1/0466        | . . . . {with arrangement for sealing the headlamp with respect to the vehicle body, or for concealing gaps between the headlamp and the vehicle body}   |
| 1/0064      | . {with provision for maintenance, e.g. changing the light bulb (swivel arrangements <a href="#">B60Q 1/0425</a> )}   |               |  |
| 1/007       | . . {via a removable cap}   |               |  |
| 1/0076      | . {Switches therefor ( <a href="#">B60Q 1/1446</a> , <a href="#">B60Q 1/343</a> , <a href="#">B60Q 1/40</a> take precedence)}   |               |  |
| 1/0082      | . . {mounted on the steering wheel}   |               |  |
| 1/0088      | . {Details of electrical connections ( <a href="#">B60Q 1/305</a> takes precedence; electrical connection of the light source itself <a href="#">F21S 41/192</a> , <a href="#">F21S 43/195</a> )}       |               |  |

- 1/0475 . . . . {with provisions for pre-mounting, for temporary holding the headlamp before or during final mounting}
- 1/0483 . . . {mounted on a bracket, e.g. details concerning the mounting of the lamps on the vehicle body}
- 1/0491 . . . {Shock absorbing devices therefor}

**WARNING**

Group [B60Q 1/0491](#) is impacted by reclassification into group [B60Q 1/0495](#).

Groups [B60Q 1/0491](#) and [B60Q 1/0495](#) should be considered in order to perform a complete search.

- 1/0495 . . . . {Frangible brackets}

**WARNING**

Group [B60Q 1/0495](#) is incomplete pending reclassification of documents from group [B60Q 1/0491](#).

Groups [B60Q 1/0491](#) and [B60Q 1/0495](#) should be considered in order to perform a complete search.

- 1/05 . . . retractable
- 1/06 . . . adjustable, e.g. remotely-controlled from inside vehicle ([B60Q 1/05](#) takes precedence)
- 1/064 . . . . by fluid means
- 1/068 . . . . by mechanical means
- 1/0683 . . . . {Adjustable by rotation of a screw}
- 1/0686 . . . . {using a position indicator mounted on the headlight and permanently attached thereto}
- 1/072 . . . . comprising a flexible element, e.g. chain
- 1/076 . . . . by electrical means {including means to transmit the movements, e.g. shafts or joints}
- 1/08 . . . . automatically
- 1/085 . . . . {due to special conditions, e.g. adverse weather, type of road, badly illuminated road signs or potential dangers ([B60Q 1/10](#), [B60Q 1/12](#), [B60Q 1/1423](#) take precedence)}
- 1/10 . . . . due to vehicle inclination, e.g. due to load distribution
- 1/105 . . . . . by fluid means
- 1/11 . . . . . by mechanical means
- 1/115 . . . . . by electric means {(details of the electric drive components, e.g. motors, shafts, ball joints [B60Q 1/076](#))}
- 1/12 . . . . . due to steering position
- 1/121 . . . . . {with fluid actuating means}
- 1/122 . . . . . {with electrical actuating means (details of the electric drive components, e.g. motors, shafts, ball joints [B60Q 1/076](#))}
- 1/124 . . . . . by mechanical means
- 1/14 . . . having dimming means
- 1/1407 . . . . {General lighting circuits comprising dimming circuits}
- 1/1415 . . . . {Dimming circuits}
- 1/1423 . . . . {Automatic dimming circuits, i.e. switching between high beam and low beam due to change of ambient light or light level in road traffic}

- 1/143 . . . . . {combined with another condition, e.g. using vehicle recognition from camera images or activation of wipers}
- 1/1438 . . . . {Actuating means for dimming masks or screens}
- 1/1446 . . . . {controlled by mechanically actuated switches}
- 1/1453 . . . . . {Hand actuated switches}
- 1/1461 . . . . . {Multifunction switches for dimming headlights and controlling additional devices, e.g. for controlling direction indicating lights}
- 1/1469 . . . . . {controlled by or attached to a single lever, e.g. steering column stalk switches}
- 1/1476 . . . . . {comprising switch controlling means located near the free end of the lever, e.g. press buttons, rotatable rings}
- 1/1484 . . . . . {mounted on the steering wheel}
- 1/1492 . . . . . {Foot actuated switches}
- 1/16 . . . illuminating the way asymmetrically
- 1/18 . . . being additional front lights {([bracket mounted headlights B60Q 1/0483](#))}
- 1/20 . . . . Fog lights
- 1/22 . . . for reverse drive
- 1/24 . . . for lighting other areas than only the way ahead

**WARNING**

Group [B60Q 1/24](#) is impacted by reclassification into groups [B60Q 1/245](#), [B60Q 1/247](#) and [B60Q 1/249](#).

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

- 1/245 . . . {Searchlights, e.g. adjustable from within the vehicle ([adjustable headlights B60Q 1/06](#))}

**WARNING**

Group [B60Q 1/245](#) is incomplete pending reclassification of documents from group [B60Q 1/24](#).

Groups [B60Q 1/24](#) and [B60Q 1/245](#) should be considered in order to perform a complete search.

- 1/247 . . . {for illuminating the close surroundings of the vehicle, e.g. to facilitate entry or exit (for reverse drive [B60Q 1/22](#); by opening a side door [B60Q 1/323](#))}

**WARNING**

Group [B60Q 1/247](#) is incomplete pending reclassification of documents from group [B60Q 1/24](#).

Groups [B60Q 1/24](#) and [B60Q 1/247](#) should be considered in order to perform a complete search.

- 1/249 . . . {for illuminating the field of view of a sensor or camera}

#### **WARNING**

Group [B60Q 1/249](#) is incomplete pending reclassification of documents from group [B60Q 1/24](#).

Groups [B60Q 1/24](#) and [B60Q 1/249](#) should be considered in order to perform a complete search.

- 1/26 . . the devices being primarily intended to indicate the vehicle, or parts thereof, or to give signals, to other traffic
- 1/2603 . . {Attenuation of the light according to ambient luminosity, e.g. for braking or direction indicating lamps}
- 1/2607 . . {comprising at least two indicating lamps}
- 1/2611 . . {Indicating devices mounted on the roof of the vehicle}
- 1/2615 . . {mounted on the vehicle body, e.g. with magnets}
- 1/2619 . . {built in the vehicle body}
- 1/2623 . . . {Details of the fastening means}
- 1/2626 . . . . {Screw-nut fasteners}
- 1/263 . . . . {Snap-in fasteners}
- 1/2634 . . . . {Fastening by rotating the device housing about its longitudinal axis, e.g. bayonet fasteners}
- 1/2638 . . . {Positioning the device housing by indexing means separate from the fastening means, e.g. pins, rails}
- 1/2642 . . . {with provision for adjusting the alignment of the device housing with respect to the vehicle body}
- 1/2646 . . . . {using dowels or expansible elements}
- 1/2649 . . . {with provision for pre-mounting or temporary holding the device before or during final mounting}
- 1/2653 . . . {with arrangement for sealing the device with respect to the vehicle body, or for concealing gaps between the device and the vehicle body}
- 1/2657 . . {mounted on a shaft, e.g. telescopic}
- 1/2661 . . {mounted on parts having other functions (on wheels [B60Q 1/326](#))}
- 1/2665 . . . {on rear-view mirrors (lighting devices for vehicle interior on or for rear-view mirrors [B60Q 3/258](#))}
- 1/2669 . . . {on door or boot handles (lighting devices for vehicle interior on door handles [B60Q 3/267](#))}
- 1/2673 . . . {on parts worn by the driver, e.g. clothes, gloves or bags, specially adapted to provide auxiliary vehicle signalling}
- 1/2676 . . . . {Helmets}
- 1/268 . . . {on windcreens or windows ([B60Q 1/302](#) takes precedence; lighting devices for vehicle interior on or for windows [B60Q 3/208](#))}
- 1/2684 . . . {on wipers or windscreen washers}
- 1/2688 . . . {on exhaust pipes}
- 1/2692 . . {retractable lights (retractable headlights [B60Q 1/05](#))}
- 1/2696 . . {Mounting of devices using LEDs}
- 1/28 . . for indicating front of vehicle

- 1/30 . . for indicating rear of vehicle, e.g. by means of reflecting surfaces

#### **WARNING**

Group [B60Q 1/30](#) is impacted by reclassification into groups [B60Q 1/301](#), [B60Q 1/3015](#), [B60Q 1/303](#) and [B60Q 1/304](#).

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

- 1/301 . . . {by means of surfaces, e.g. metal plate, reflecting the light of an external light source}

#### **WARNING**

Groups [B60Q 1/301](#) and [B60Q 1/3015](#) are incomplete pending reclassification of documents from group [B60Q 1/30](#).

Groups [B60Q 1/30](#), [B60Q 1/301](#) and [B60Q 1/3015](#) should be considered in order to perform a complete search.

- 1/3015 . . . . {combined with a lamp}
- 1/302 . . . {mounted in the vicinity, e.g. in the middle, of a rear window}
- 1/303 . . . {Rear fog lamps}

#### **WARNING**

Group [B60Q 1/303](#) is incomplete pending reclassification of documents from group [B60Q 1/30](#).

Groups [B60Q 1/30](#) and [B60Q 1/303](#) should be considered in order to perform a complete search.

- 1/304 . . . {Adaptations of signalling devices having a part on the vehicle body and another on the boot door}

#### **WARNING**

Group [B60Q 1/304](#) is incomplete pending reclassification of documents from group [B60Q 1/30](#).

Groups [B60Q 1/30](#) and [B60Q 1/304](#) should be considered in order to perform a complete search.

- 1/305 . . . {Indicating devices for towed vehicles}
- 1/307 . . . {mounted on loading platforms}
- 1/32 . . for indicating vehicle sides {, e.g. clearance lights}
- 1/323 . . . {on or for doors (illuminated exterior door handles [B60Q 1/2669](#); illuminated door locks [E05B 17/10](#))}

#### **WARNING**

Group [B60Q 1/323](#) is impacted by reclassification into groups [B60Q 1/324](#) and [B60Q 1/325](#).

Groups [B60Q 1/323](#), [B60Q 1/324](#) and [B60Q 1/325](#) should be considered in order to perform a complete search.

- 1/324 . . . . {for signalling that a door is open or intended to be opened}
- WARNING**
- Group [B60Q 1/324](#) is incomplete pending reclassification of documents from group [B60Q 1/323](#).
- Groups [B60Q 1/323](#) and [B60Q 1/324](#) should be considered in order to perform a complete search.
- 1/325 . . . . {on or for running boards or steps}
- WARNING**
- Group [B60Q 1/325](#) is incomplete pending reclassification of documents from group [B60Q 1/323](#).
- Groups [B60Q 1/323](#) and [B60Q 1/325](#) should be considered in order to perform a complete search.
- 1/326 . . . . {on or for wheels}
- 1/34 . . for indicating change of drive direction ([B60Q 1/22](#) takes precedence)
- 1/343 . . . . {Manually actuated switching arrangements therefor (hand actuated multifunction switches [B60Q 1/1461](#); [B60Q 1/40](#) takes precedence)}
- 1/346 . . . . {with automatic actuation}
- 1/36 . . . . using movable members, e.g. arms with built-in flashing lamps
- 1/38 . . . . using immovably-mounted light sources, e.g. fixed flashing lamps
- WARNING**
- Group [B60Q 1/38](#) is impacted by reclassification into group [B60Q 1/381](#).
- Groups [B60Q 1/38](#) and [B60Q 1/381](#) should be considered in order to perform a complete search.
- 1/381 . . . . {with several light sources activated in sequence, e.g. to create a sweep effect}
- WARNING**
- Group [B60Q 1/381](#) is incomplete pending reclassification of documents from group [B60Q 1/38](#).
- Groups [B60Q 1/38](#) and [B60Q 1/381](#) should be considered in order to perform a complete search.
- 1/382 . . . . {Electronic temporisation with semiconductor amplification}
- 1/385 . . . . {Electronic temporisation with relay amplification}
- 1/387 . . . . {Mechanical temporisation}
- 1/40 . . . . having {mechanical, electric or electronic} automatic return to inoperative position
- 1/42 . . . . {having mechanical automatic return to inoperative position} due to steering-wheel position {, e.g. with roller wheel control}
- 1/425 . . . . . {using a latching element for resetting a switching element}
- 1/44 . . for indicating braking action {or preparation for braking, e.g. by detection of the foot approaching the brake pedal}

- 1/441 . . . . {Electric switches operable by the driver's pedals}
- 1/442 . . . . {visible on the front side of the vehicle, e.g. for pedestrians}
- 1/444 . . . . {with indication of the braking strength or speed changes, e.g. by changing shape or intensity of the indication ([B60Q 1/1407](#), [B60Q 1/442](#), [B60Q 1/447](#) take precedence)}
- 1/445 . . . . {controlled by inertial devices}
- 1/447 . . . . . {with indication of the braking strength or speed changes, e.g. by changing the shape or intensity of the indication}
- 1/448 . . . . {specially adapted for vehicles with ABS}
- 1/46 . . for giving flashing caution signals during drive, other than signalling change of direction, e.g. flashing the headlights {or hazard lights}
- 1/48 . . for parking purposes
- 1/482 . . . . {for locating vehicle in parking lot}
- 1/484 . . . . {for showing outline of vehicle}
- 1/486 . . . . {for indicating that vehicle is in a parked state}
- 1/488 . . . . {for indicating intention to park}
- 1/50 . . for indicating other intentions or conditions, e.g. request for waiting or overtaking

**WARNING**

Group [B60Q 1/50](#) is impacted by reclassification into groups [B60Q 1/503](#), [B60Q 1/5035](#), [B60Q 1/5037](#), [B60Q 1/507](#), [B60Q 1/508](#), [B60Q 1/509](#), [B60Q 1/543](#), [B60Q 1/544](#), [B60Q 1/545](#), [B60Q 1/547](#) and [B60Q 1/549](#).

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

- 1/503 . . . . {using luminous text or symbol displays in or on the vehicle, e.g. static text}

**WARNING**

Group [B60Q 1/503](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Group [B60Q 1/503](#) is also impacted by reclassification into groups [B60Q 1/5035](#) and [B60Q 1/5037](#).

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

- 1/5035 . . . . . {electronic displays}

**WARNING**

Groups [B60Q 1/5035](#) and [B60Q 1/5037](#) are incomplete pending reclassification of documents from groups [B60Q 1/50](#) and [B60Q 1/503](#).

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

- 1/5037 . . . . . {the display content changing automatically, e.g. depending on traffic situation}
- 1/506 . . . . {specific to silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching}

1/507 . . . {specific to autonomous vehicles}

**WARNING**

Group [B60Q 1/507](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/507](#) should be considered in order to perform a complete search.

1/508 . . . {specific to vehicles driving in fleets or convoys}

**WARNING**

Group [B60Q 1/508](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/508](#) should be considered in order to perform a complete search.

1/509 . . . {specific to unauthorised use, e.g. for indicating stolen vehicles or infringements of traffic rules}

**WARNING**

Group [B60Q 1/509](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/509](#) should be considered in order to perform a complete search.

1/52 . . . for indicating emergencies

1/525 . . . {automatically indicating risk of collision between vehicles in traffic or with pedestrians, e.g. after risk assessment using the vehicle sensor data}

**WARNING**

Group [B60Q 1/525](#) is impacted by reclassification into group [B60Q 1/535](#).

Groups [B60Q 1/525](#) and [B60Q 1/535](#) should be considered in order to perform a complete search.

1/535 . . . . {to prevent rear-end collisions, e.g. by indicating safety distance at the rear of the vehicle}

**WARNING**

Group [B60Q 1/535](#) is incomplete pending reclassification of documents from group [B60Q 1/525](#).

Groups [B60Q 1/525](#) and [B60Q 1/535](#) should be considered in order to perform a complete search.

1/54 . . . for indicating speed {outside of the vehicle}

1/543 . . . {for indicating other states or conditions of the vehicle (indicating taxis' state of hire or fare [G07B 13/045](#))}

**WARNING**

Group [B60Q 1/543](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/543](#) should be considered in order to perform a complete search.

1/544 . . . {for indicating other states or conditions of the vehicle occupants, e.g. for indicating disabled occupants}

**WARNING**

Group [B60Q 1/544](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/544](#) should be considered in order to perform a complete search.

1/545 . . . {for indicating other traffic conditions, e.g. fog, heavy traffic}

**WARNING**

Group [B60Q 1/545](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/545](#) should be considered in order to perform a complete search.

1/547 . . . {for issuing requests to other traffic participants; for confirming to other traffic participants they can proceed, e.g. they can overtake}

**WARNING**

Group [B60Q 1/547](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/547](#) should be considered in order to perform a complete search.

1/549 . . . {for expressing greetings, gratitude or emotions}

**WARNING**

Group [B60Q 1/549](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/549](#) should be considered in order to perform a complete search.

1/56 . . for illuminating registrations or the like {, e.g. for licence plates}

**3/00 Arrangement of lighting devices for vehicle interiors; Lighting devices specially adapted for vehicle interiors**

3/10 . for dashboards

3/12 . . lighting onto the surface to be illuminated



- 3/14 . . lighting through the surface to be illuminated
- 3/16 . . Circuits; Control arrangements
- 3/18 . . . for varying the light intensity
- 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](#))
- 3/208 . . Sun roofs; Windows
- 3/217 . . Doors, e.g. door sills; Steps
- 3/225 . . Small compartments, e.g. glove compartments

**WARNING**

Group [B60Q 3/225](#) is impacted by reclassification into group [B60Q 3/229](#).

Groups [B60Q 3/225](#) and [B60Q 3/229](#) should be considered in order to perform a complete search.

- 3/229 . . . {Cup holders}

**WARNING**

Group [B60Q 3/229](#) is incomplete pending reclassification of documents from group [B60Q 3/225](#).

Groups [B60Q 3/225](#) and [B60Q 3/229](#) should be considered in order to perform a complete search.

- 3/233 . . Seats; Arm rests; Head rests
- 3/242 . . Safety belts; Body harnesses
- 3/252 . . Sun visors
- 3/258 . . Rear-view mirrors
- 3/267 . . Door handles; Hand grips
- 3/275 . . Smoking-related fittings, e.g. cigarette lighters or ashtrays
- 3/283 . . Steering wheels; Gear levers
- 3/292 . . Ignition locks
- 3/30 . for compartments other than passenger or driving compartments, e.g. luggage or engine compartments
- 3/35 . . Portable lighting devices
- 3/40 . specially adapted for specific vehicle types
- 3/41 . . for mass transit vehicles, e.g. buses
- 3/43 . . . General lighting
- 3/44 . . . Spotlighting, e.g. reading lamps
- 3/46 . . . Emergency lighting, e.g. for escape routes
- 3/47 . . . Circuits; Control arrangements
- 3/49 . . for vehicles with non-fixed roofs, e.g. convertibles
- 3/50 . Mounting arrangements ([for compartments other than passenger or driving compartments B60Q 3/30; specially adapted for specific vehicle types B60Q 3/40](#))
- 3/51 . . for mounting lighting devices onto vehicle interior, e.g. onto ceiling or floor
- 3/53 . . . Modular mounting systems, e.g. using tracks, rails or multiple plugs
- 3/54 . . Lighting devices embedded in interior trim, e.g. in roof liners
- 3/56 . . Lighting devices mounted on elongate supports, e.g. on flexible arms
- 3/57 . . Retractable or concealable lighting devices
- 3/59 . . Lighting devices mounted in the vehicle interior and adapted for portability
- 3/60 . characterised by optical aspects

- 3/62 . . using light guides
- 3/64 . . . for a single lighting device
- 3/66 . . . for distributing light among several lighting devices
- 3/68 . . using ultra-violet light
- 3/70 . characterised by the purpose

**WARNING**

Group [B60Q 3/70](#) is impacted by reclassification into groups [B60Q 3/731](#) and [B60Q 3/735](#).

Groups [B60Q 3/70](#), [B60Q 3/731](#) and [B60Q 3/735](#) should be considered in order to perform a complete search.

- 3/72 . . for preventing the driver from being dazzled
- 3/731 . . {for autonomous vehicle travel}

**WARNING**

Groups [B60Q 3/731](#) and [B60Q 3/735](#) are incomplete pending reclassification of documents from group [B60Q 3/70](#).

Groups [B60Q 3/70](#), [B60Q 3/731](#) and [B60Q 3/735](#) should be considered in order to perform a complete search.

- 3/735 . . . {for preventing discomfort, e.g. for preventing motion sickness or for anticipating motion}
- 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](#))
- 3/745 . . . {using lighting panels or mats, e.g. electro-luminescent panels, LED mats}
- 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](#))
- 3/78 . . for generating luminous strips, e.g. for marking trim component edges
- 3/80 . Circuits; Control arrangements ([for dashboards B60Q 3/16; for mass transit vehicles B60Q 3/47](#))
- 3/82 . . Switches specially adapted for vehicle interior lighting, e.g. switching by tilting the lens
- 3/85 . . for manual control of the light, e.g. of colour, orientation or intensity
- 3/88 . . Means for plugging to the electrical power supply of the vehicle, e.g. by using cigarette lighter sockets

**5/00 Arrangement or adaptation of acoustic signal devices**

- 5/001 . {Switches therefor}
- 5/003 . . {mounted on the steering wheel}
- 5/005 . {automatically actuated}
- 5/006 . . {indicating risk of collision between vehicles or with pedestrians}
- 5/008 . . {for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching}

**7/00 Arrangement or adaptation of portable emergency signal devices on vehicles**

- 7/005 . {Devices without lamps}
- 7/02 . to be attached to overhanging loads or extending parts of vehicle

|                          |  |                           |   |
|--------------------------|--|---------------------------|---|
| <b>9/00</b>              | <b>Arrangement or adaptation of signal devices not provided for in one of main groups <a href="#">B60Q 1/00</a> - <a href="#">B60Q 7/00</a> {, e.g. haptic signalling}</b>           | <a href="#">2300/124</a>  | . . . Steering speed  |
|                          |  | <a href="#">2300/126</a>  | . . . Hysteresis behavior based on steering   |
|                          |  | <a href="#">2300/128</a>  | . . . Steering dead zone  |
| <a href="#">9/001</a>    | . {Alarm devices when the motor is stopped and the lights are on}  | <a href="#">2300/13</a>   | . . Attitude of the vehicle body  |
|                          |  | <a href="#">2300/132</a>  | . . . Pitch   |
| <a href="#">9/002</a>    | . {for parking purposes, e.g. for warning the driver that his vehicle has contacted or is about to contact an obstacle (warning arrangements in garages <a href="#">E04H 6/42</a> )} | <a href="#">2300/134</a>  | . . . Yaw   |
|                          |  | <a href="#">2300/136</a>  | . . . Roll  |
|                          |  | <a href="#">2300/14</a>   | . . Other vehicle conditions  |
| <a href="#">9/003</a>    | . . {using physical contactors, e.g. arms that trigger alarm upon contact with obstacle}   | <a href="#">2300/142</a>  | . . . Turn signal actuation   |
|                          |  | <a href="#">2300/144</a>  | . . . Rearward ratio actuation  |
| <a href="#">9/004</a>    | . . {using wave sensors (radar designed for anti-collision purposes between land vehicles or between land vehicles and fixed obstacles <a href="#">G01S 13/931</a> )}                | <a href="#">2300/146</a>  | . . . Abnormalities, e.g. fail-safe   |
|                          |  | <a href="#">2300/20</a>   | . Indexing codes relating to the driver or the passengers   |
|                          |  | <a href="#">2300/21</a>   | . . Manual control  |
| <a href="#">9/005</a>    | . . . {using a video camera}   | <a href="#">2300/22</a>   | . . Seat occupation   |
| <a href="#">9/006</a>    | . . . {using a distance sensor}  | <a href="#">2300/23</a>   | . . Driver's line of sight  |
| <a href="#">9/007</a>    | . . {providing information about the distance to an obstacle, e.g. varying sound}  | <a href="#">2300/30</a>   | . Indexing codes relating to the vehicle environment  |
| <a href="#">9/008</a>    | . {for anti-collision purposes}  | <a href="#">2300/305</a>  | . . Calendar date or clock time   |
|                          |  | <a href="#">2300/31</a>   | . . Atmospheric conditions  |
| <b>11/00</b>             | <b>Arrangement of monitoring devices for devices provided for in groups <a href="#">B60Q 1/00</a> - <a href="#">B60Q 9/00</a></b>  | <a href="#">2300/312</a>  | . . . Adverse weather   |
|                          |  | <a href="#">2300/314</a>  | . . . Ambient light   |
| <a href="#">11/002</a>   | . {Emergency driving lights in the event of failure of the principal lighting circuit}   | <a href="#">2300/32</a>   | . . Road surface or travel path   |
|                          |  | <a href="#">2300/322</a>  | . . . Road curvature  |
| <a href="#">11/005</a>   | . {for lighting devices, e.g. indicating if lamps are burning or not}  | <a href="#">2300/324</a>  | . . . Road inclination, e.g. uphill or downhill   |
|                          |  | <a href="#">2300/33</a>   | . . Driving situation   |
| <a href="#">11/007</a>   | . . {the lighting devices indicating change of drive direction}  | <a href="#">2300/331</a>  | . . . characterised by the driving side, e.g. on the left or right hand side  |
|                          |  | <a href="#">2300/332</a>  | . . . on city roads   |
| <b>2200/00</b>           | <b>Special features or arrangements of vehicle headlamps</b>   | <a href="#">2300/3321</a> | . . . . Detection of streetlights   |
| <a href="#">2200/30</a>  | . Special arrangements for adjusting headlamps, e.g. means for transmitting the movements for adjusting the lamps  | <a href="#">2300/333</a>  | . . . on suburban or country roads  |
|                          |  | <a href="#">2300/334</a>  | . . . on motorways  |
| <a href="#">2200/32</a>  | . . Ball-joints  | <a href="#">2300/335</a>  | . . . Number or size of road lanes  |
| <a href="#">2200/34</a>  | . . Deformable parts, i.e. the adjustment is performed by bending or stretching a part   | <a href="#">2300/336</a>  | . . . Crossings   |
|                          |  | <a href="#">2300/337</a>  | . . . Tunnels or bridges  |
| <a href="#">2200/36</a>  | . . Conjoint adjustments, i.e. a mechanical link allows conjoint adjustment of several units   | <a href="#">2300/338</a>  | . . . Overtaking  |
| <a href="#">2200/38</a>  | . . Automatic calibration of motor-driven means for adjusting headlamps, i.e. when switching on the headlamps, not during mounting at factories                                      | <a href="#">2300/40</a>   | . Indexing codes relating to other road users or special conditions   |
|                          |  | <a href="#">2300/41</a>   | . . preceding vehicle   |
| <b>2300/00</b>           | <b>Indexing codes for automatically adjustable headlamps or automatically dimmable headlamps</b>   | <a href="#">2300/42</a>   | . . oncoming vehicle  |
| <a href="#">2300/05</a>  | . Special features for controlling or switching of the light beam  | <a href="#">2300/43</a>   | . . following vehicle   |
|                          |  | <a href="#">2300/45</a>   | . . Special conditions, e.g. pedestrians, road signs or potential dangers   |
| <a href="#">2300/052</a> | . . Switching delay, i.e. the beam is not switched or changed instantaneously upon occurrence of a condition change  | <a href="#">2300/47</a>   | . . Direct command from other road users, i.e. the command for switching or changing the beam is sent by other vehicles or road devices                         |
|                          |  | <b>2400/00</b>            | <b>Special features or arrangements of exterior signal lamps for vehicles</b>   |
| <a href="#">2300/054</a> | . . Variable non-standard intensity, i.e. emission of various beam intensities different from standard intensities, e.g. continuous or stepped transitions of intensity              |                           | <b>WARNING</b>  |
|                          |  |                           | Group <a href="#">B60Q 2400/00</a> is impacted by reclassification into groups <a href="#">B60Q 2400/10</a> and <a href="#">B60Q 2400/50</a> .                  |
| <a href="#">2300/056</a> | . . Special anti-blinding beams, e.g. a standard beam is chopped or moved in order not to blind  |                           | Groups <a href="#">B60Q 2400/00</a> , <a href="#">B60Q 2400/10</a> and <a href="#">B60Q 2400/50</a> should be considered in order to perform a complete search. |
| <a href="#">2300/10</a>  | . Indexing codes relating to particular vehicle conditions   |                           |   |
| <a href="#">2300/11</a>  | . . Linear movements of the vehicle  |                           |   |
| <a href="#">2300/112</a> | . . . Vehicle speed  |                           |   |
| <a href="#">2300/114</a> | . . . Vehicle acceleration or deceleration   |                           |   |
| <a href="#">2300/116</a> | . . . Vehicle at a stop  |                           |   |
| <a href="#">2300/12</a>  | . . Steering parameters  |                           |   |
| <a href="#">2300/122</a> | . . . Steering angle   |                           |   |

- 2400/10 . Electro- or photo- luminescent surfaces, e.g. signalling by way of electroluminescent strips or panels

**WARNING**

Group [B60Q 2400/10](#) is incomplete pending reclassification of documents from group [B60Q 2400/00](#).

Groups [B60Q 2400/00](#) and [B60Q 2400/10](#) should be considered in order to perform a complete search.

- 2400/20 . Multi-color single source or LED matrix, e.g. yellow blinker and red brake lamp generated by single lamp

- 2400/30 . Daytime running lights [DRL], e.g. circuits or arrangements therefor

- 2400/40 . Welcome lights, i.e. specific or existing exterior lamps to assist leaving or approaching the vehicle

- 2400/50 . Projected symbol or information, e.g. onto the road or car body

**WARNING**

Group [B60Q 2400/50](#) is incomplete pending reclassification of documents from group [B60Q 2400/00](#).

Groups [B60Q 2400/00](#) and [B60Q 2400/50](#) should be considered in order to perform a complete search.

**2500/00 Special features or arrangements of vehicle interior lamps**

**WARNING**

Group [B60Q 2500/00](#) is impacted by reclassification into group [B60Q 2500/30](#).

Groups [B60Q 2500/00](#) and [B60Q 2500/30](#) should be considered in order to perform a complete search.

- 2500/20 . associated with air conditioning arrangements

- 2500/30 . Arrangements for illuminating different zones in the vehicle, e.g. front/rear, different seats

**WARNING**

Group [B60Q 2500/30](#) is incomplete pending reclassification of documents from group [B60Q 2500/00](#).

Groups [B60Q 2500/00](#) and [B60Q 2500/30](#) should be considered in order to perform a complete search.

**2800/00 Features related to particular types of vehicles not otherwise provided for**

- 2800/10 . Autonomous vehicles

- 2800/20 . Utility vehicles, e.g. for agriculture, construction work

- 2800/30 . Mass transport vehicles

**2900/00 Features of lamps not covered by other groups in B60Q**

**WARNING**

Group [B60Q 2900/00](#) is impacted by reclassification into groups [B60Q 2900/40](#) and [B60Q 2900/50](#).

Groups [B60Q 2900/00](#), [B60Q 2900/40](#) and [B60Q 2900/50](#) should be considered in order to perform a complete search.

- 2900/10 . Retrofit arrangements

- 2900/20 . Arrangements for easy recycling, e.g. for easy dismantling or use of special materials

- 2900/30 . Lamps commanded by wireless transmissions

- 2900/40 . Several lamps activated in sequence, e.g. sweep effect, progressive activation

**WARNING**

Group [B60Q 2900/40](#) is incomplete pending reclassification of documents from group [B60Q 2900/00](#).

Groups [B60Q 2900/00](#) and [B60Q 2900/40](#) should be considered in order to perform a complete search.

- 2900/50 . Arrangements to reconfigure features of lighting or signalling devices, or to choose from a list of pre-defined settings

**WARNING**

Group [B60Q 2900/50](#) is incomplete pending reclassification of documents from group [B60Q 2900/00](#).

Groups [B60Q 2900/00](#) and [B60Q 2900/50](#) should be considered in order to perform a complete search.