

CPC**COOPERATIVE PATENT CLASSIFICATION****B60Q**

VEHICLE LIGHTING OR SIGNALLING (arrangement of signalling or lighting devices, the mounting or supporting thereof for rail vehicles [B61D](#) , for cycles [B62J](#) , for ships [B63B](#) , for aircrafts [B64D](#) ; lighting in general, lighting devices per se [F21](#) , [H05B](#) ; signalling in general [G08](#) ; electric switches per se [H01H](#))

NOTE

This subclass covers also:

- electric signalling of lighting circuits so far as specially arranged in vehicles;
- arrangements or adaptations of lighting switches or signal-initiating means

Attention is drawn to the Note following the title of class [B60](#)

Attention is drawn to the following places :

[B60K 28/00](#) Safety devices, e.g. sleeping driver
[B60R25](#) Anti theft
[B62D](#) Driving assistance
[B62D 15/02](#) Steering aids
[B60K 31/0008](#) Cruise control
[F21S 48/00](#) Lighting devices or systems specially adapted for vehicles
[G01S](#) Infra red night vision
[G01S 13/931](#) Anti Collision
[G05D 1/00](#) Automatic pilot
[G06K 9/00](#) Pattern recognition
[G06T 3/00](#) Image transformation
[G06T 5/00](#) Image enhancement
[G06T 7/00](#) Image analysis
[G08B 21/00](#) Alarms in general
[G08G](#) Traffic control
[G08G 1/16](#) Anti-collision systems
[H04N](#) Television systems

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[B60Q 1/128](#) covered by [B60Q 1/124](#)
[B60Q 1/132](#) covered by [B60Q 1/124](#)
[B60Q 1/136](#) covered by [B60Q 1/124](#)

Guidance heading:**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 37/00](#) })

B60Q 1/0005

- . { Devices preventing the lights from becoming dirty or damaged (protecting lighting devices from damage in general [F21V 15/00](#)) , e.g. protection grids (fastening of grids or protective cages in general [F21V 17/00](#)) , cleaning by air flow (windshield

wipers for cleaning optical devices of vehicles [B60S 1/04](#)) }

- B60Q 1/0011
 - { with light guides for distributing the light between several lighting or signalling devices (using light guides inside a single device [F21S 8/00](#) , light guides per se [G02B 6/0001](#)) }
- B60Q 1/0017
 - { Devices integrating an element dedicated to another function }
- B60Q 1/0023
 - .. { the element being a sensor, e.g. distance sensor, camera }
- B60Q 1/0029
 - { Spatial arrangement }
- B60Q 1/0035
 - .. { relative to the vehicle }
- B60Q 1/0041
 - .. { of several lamps in relation to each other }
- B60Q 1/0047
 - ... { Signalling unit mounted on a headlamp unit }
- B60Q 1/0052
 - ... { concentric }
- B60Q 1/0058
 - ... { Stacked, i.e. one lamp located behind the other in the optical axis direction }
- B60Q 1/0064
 - { with provision for maintenance, e.g. changing the light bulb (swivel arrangements [B60Q 1/0425](#) ; fastening of covers [F21S 48/15](#) ; changing light sources in general [F21V 19/04](#) ; fastening of light sources or lamp holders [F21S 48/1104](#) , [F21S 48/211](#)) }
- B60Q 1/007
 - .. { via a removable cap (fastening of the light source by a cap holding the light source [F21S 48/1104](#) , [F21S 48/211](#)) }
- B60Q 1/0076
 - { Switches therefor ([B60Q 1/1446](#) , [B60Q 1/343](#) , [B60Q 1/40](#) take precedence, arrangements or fitting of control knobs on dashboard [B60K 37/06](#)) }
- B60Q 1/0082
 - .. { mounted on the steering wheel }
- B60Q 1/0088
 - { Details of electrical connections ([B60Q 1/305](#) takes precedence; electrical connectors in general [H01R](#) ; electrical connection of the light source itself [F21S 48/1109](#) , [F21S 48/212](#)) }
- B60Q 1/0094
 - .. { Arrangement of electronic circuits separated from the light source (e.g. mounting of housings for starter circuits for discharge lamps, circuits per se [H05B](#) , arrangements being part of the light source holder [F21V 17/00M2](#) , [F21V 17/00Q2](#) , [F21S 48/1109](#) , [F21S 48/212](#)) }
- B60Q 1/02
 - the devices being primarily intended to illuminate the way ahead or to illuminate other areas of way or environments
- B60Q 1/04
 - .. the devices being headlights
- B60Q 1/0408
 - ... { built into the vehicle body, e.g. details concerning the mounting of the headlamps on the vehicle body ([B60Q 1/0491](#) , [B60Q 1/05](#) take precedence, integrated front ends [B62D 25/00](#)) }
- B60Q 1/0416
 - { the housing being mounted on the vehicle body using rails }
- B60Q 1/0425
 - { the housing being swivel mounted on the vehicle body }
- B60Q 1/0433
 - { the housing being fastened onto the vehicle body using screws (adjustable headlamp by rotation of a screw [B60Q 1/0683](#)) }
- B60Q 1/0441
 - { the housing being fastened onto the vehicle body using means other than screws }
- B60Q 1/045
 - { with provision for adjusting the alignment of the headlamp housing with respect to the vehicle body (adjusting the light beam [B60Q 1/06](#)) }
- B60Q 1/0458
 - { the front cover being directly mounted onto the vehicle body (mounting the

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| | | cover on the housing F21S 48/15) } |
| B60Q 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 } |
| B60Q 1/0475 | .... | { with provisions for pre-mounting, for temporary holding the headlamp before or during final mounting } |
| B60Q 1/0483 | ... | { mounted on a bracket, e.g. details concerning the mounting of the lamps on the vehicle body } |
| B60Q 1/0491 | ... | { Shock absorbing devices therefor (resilient mounting of lighting devices in general F21V 15/04 ; shock absorbing devices in general F16F 15/04) } |
| B60Q 1/05 | ... | Retractable |
| B60Q 1/06 | ... | adjustable, e.g. remotely controlled from inside vehicle (B60Q 1/05 takes precedence; { changing the characteristics or distribution of the light by adjustment of parts, e.g. reflectors, light sources, lenses, screens F21V 14/00 }) |
| B60Q 1/064 | .... | by fluid means |
| B60Q 1/068 | .... | by mechanical means |
| B60Q 1/0683 | ..... | { Adjustable by rotation of a screw } |
| B60Q 1/0686 | ..... | { using a position indicator mounted on the headlight and permanently attached thereto } |
| B60Q 1/072 | ..... | comprising a flexible element, e.g. chain |
| B60Q 1/076 | .... | by electrical means { including means to transmit the movements, e.g. shafts or joints } |
| B60Q 1/08 | .... | automatically |
| B60Q 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)] |
| B60Q 1/10 | ..... | due to vehicle inclination, e.g. due to load distribution |
| B60Q 1/105 | ..... | by fluid means |
| B60Q 1/11 | ..... | by mechanical means |
| B60Q 1/115 | ..... | by electric means { (details of the electric drive components, e.g. motors, shafts, ball joints B60Q 1/076) } |
| B60Q 1/12 | ..... | due to steering position |
| B60Q 1/121 | ..... | { with fluid actuating means } |
| B60Q 1/122 | ..... | { with electrical actuating means (details of the electric drive components, e.g. motors, shafts, ball joints B60Q 1/076) } |
| B60Q 1/124 | ..... | by mechanical means |
| B60Q 1/14 | ... | having dimming means { (lighting power supply circuits in general H05B) } |
| B60Q 1/1407 | .... | { General lighting circuits comprising dimming circuits (dimming circuits per se B60Q 1/1415) } |
| B60Q 1/1415 | .... | { Dimming circuits } |
| B60Q 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 } |
| B60Q 1/143 | ..... | { combined with another condition, e.g. using vehicle recognition from camera images or activation of wipers } |
| B60Q 1/1438 | | { Actuating means for dimming masks or screens (adjustable screens per se F21V 11/04) } |
| B60Q 1/1446 | | { controlled by mechanically actuated switches } |

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| B60Q 1/1453 | | { Hand actuated switches } |
| B60Q 1/1461 | | { Multifunction switches for dimming headlights and controlling additional devices, e.g. for controlling direction indicating lights } |
| B60Q 1/1469 | ..... | { controlled by or attached to a single lever, e.g. steering column stalk switches } |
| B60Q 1/1476 | ..... | { comprising switch controlling means located near the free end of the lever, e.g. press buttons, rotatable rings } |
| B60Q 1/1484 | ..... | { mounted on the steering wheel } |
| B60Q 1/1492 | ..... | { Foot actuated switches } |
| B60Q 1/16 | ... | illuminating the way asymmetrically |
| B60Q 1/18 | ... | being additional front lights { (bracket mounted headlights B60Q 1/0483) } |
| B60Q 1/20 | .... | Fog lights { (single shaped beam lighting devices specially adapted for vehicles for penetrating fog or preventing glare F21S 8/12) } |
| B60Q 1/22 | .. | for reverse drive |
| B60Q 1/24 | .. | for lighting other areas than only the way ahead |
| B60Q 1/245 | ... | { using spotlights adjustable from within the vehicle (adjustable headlights B60Q 1/06) } |
| B60Q 1/26 | . | the devices being primarily intended to indicate the vehicle, or parts thereof, or to give signals, to other traffic { (such devices mounted on the vehicle rear part F21S 48/20 ; means for the lighting or illuminating of aerials, e.g. for purpose of warning H01Q 1/06) } |
| B60Q 1/2603 | .. | { Attenuation of the light according to ambient luminosity, e.g. for braking or direction indicating lamps } |
| B60Q 1/2607 | .. | { comprising at least two indicating lamps } |
| B60Q 1/2611 | .. | { Indicating devices mounted on the roof of the vehicle (flashing light sources in general F21S 10/06) } |
| B60Q 1/2615 | .. | { mounted on the vehicle body, e.g. with magnets } |
| B60Q 1/2619 | .. | { built in the vehicle body } |
| B60Q 1/2623 | ... | { Details of the fastening means } |
| B60Q 1/2626 | .... | { Screw-nut fasteners } |
| B60Q 1/263 | .... | { Snap-in fasteners } |
| B60Q 1/2634 | .... | { Fastening by rotating the device housing about its longitudinal axis, e.g. bayonet fasteners } |
| B60Q 1/2638 | ... | { Positioning the device housing by indexing means separate from the fastening means, e.g. pins, rails } |
| B60Q 1/2642 | ... | { with provision for adjusting the alignment of the device housing with respect to the vehicle body } |
| B60Q 1/2646 | .... | { using dowels or expansible elements } |
| B60Q 1/2649 | ... | { with provision for pre-mounting or temporary holding the device before or during final mounting } |
| B60Q 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 } |
| B60Q 1/2657 | .. | { mounted on a shaft, e.g. telescopic (lamps on antennas or powerlines F21S 8/085) } |
| B60Q 1/2661 | .. | { mounted on parts having other functions (on wheels B60Q 1/323) } |

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| B60Q 1/2665 | ... | { on rear-view mirrors (lighting devices for vehicle interior on or for rear-view mirrors B60Q 3/023 ; adaptations or arrangements of mirrors for use on cycles B62J 29/00 ; rear-view mirror arrangements B60R 1/02 ; mirror assemblies combined with lamps B60R 1/1207) } |
| B60Q 1/2669 | ... | { on door or boot handles (lighting devices for vehicle interior on door handles B60Q 3/0233 ; vehicle doors B60J 5/00 illuminating devices on or for locks or keys E05B 17/10 ; Keyhole finders E05B 15/08) } |
| B60Q 1/2673 | ... | { on parts worn by the driver, e.g. clothes (professional or sporting clothes with reflecting or luminous means A41D 13/01) , gloves (protective gloves with reflecting or luminous means A41D 19/0157) , or bags, specially adapted to provide auxiliary vehicle signalling } |
| B60Q 1/2676 | .... | { Helmets (helmets in general A42B 3/00 ; helmets with signalling or lighting devices A42B 3/0433) } |
| B60Q 1/268 | ... | { on windscreens or windows (B60Q 1/302 takes precedence; windows or windscreens in general B60J 1/00 ; lighting devices for vehicle interior on or for windows B60Q 3/0213) } |
| B60Q 1/2684 | ... | { on wipers or windscreen washers (vehicle wipers B60S 1/04 ; windscreen washers B60S 1/46) } |
| B60Q 1/2688 | ... | { on exhaust pipes (exhaust or silencing apparatuses in general F01N) } |
| B60Q 1/2692 | .. | { retractable lights (retractable headlights B60Q 1/05) } |
| B60Q 1/2696 | .. | { Mounting of devices using LEDs (fastening of LEDs on printed circuits F21V 19/001) } |
| B60Q 1/28 | .. | for indicating front of vehicle |
| B60Q 1/30 | .. | for indicating rear of vehicle, e.g. by means of reflecting surfaces |
| B60Q 1/302 | ... | { mounted in the vicinity, e.g. in the middle, of a rear window } |
| B60Q 1/305 | ... | { Indicating devices for towed vehicles } |
| B60Q 1/307 | ... | { mounted on loading platforms (warning signals on loading platforms B60P 1/4464) } |
| B60Q 1/32 | .. | for indicating vehicle sides, { e.g. clearance lights } |
| B60Q 1/323 | ... | { on or for doors or running boards, e.g. to facilitate acces to the vehicle (illumination of door locks E05B 17/10) } |
| B60Q 1/326 | ... | { on or for wheels } |
| B60Q 1/34 | .. | for indicating change of drive direction (B60Q 1/22 takes precedence) |
| B60Q 1/343 | ... | { Manually actuated switching arrangements therefor (Hand actuated multifunction switches B60Q 1/1461 ; B60Q 1/40 takes precedence) } |
| B60Q 1/346 | ... | with automatic actuation |
| B60Q 1/36 | ... | using movable members, e.g. arms with built-in flashing lamps |
| B60Q 1/38 | ... | using immovably-mounted light sources, e.g. fixed flashing lamps |
| B60Q 1/382 | .... | { Electronic temporisation with semiconductor amplification } |
| B60Q 1/385 | .... | { Electronic temporisation with relay amplification } |
| B60Q 1/387 | .... | { Mechanical temporisation } |
| B60Q 1/40 | ... | having { mechanical, electric or electronic } automatic return to inoperative position |
| B60Q 1/42 | .... | { having mechanical automatic return to inoperative position } due to steering-wheel position, { e.g. with roller wheel control } |
| B60Q 1/425 | ..... | { using a latching element for resetting a switching element (Hand actuated multifunction switches B60Q 1/1461) } |
| B60Q 1/44 | .. | for indicating braking action or preparation for braking, { e.g. by detection of the |

- foot approaching the brake pedal }
- B60Q 1/441 . . . { Electric switches operable by the driver`s pedals (electric switches in general [H01H](#)) }
- B60Q 1/442 . . . { visible on the front side of the vehicle, e.g. for pedestrians }
- B60Q 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) }
- B60Q 1/445 . . . { controlled by inertial devices }
- B60Q 1/447 { with indication of the braking strength or speed changes, e.g. by changing the shape or intensity of the indication }
- B60Q 1/448 . . . { specially adapted for vehicles with ABS }
- B60Q 1/46 . . for giving flashing caution signals during drive, other than signalling change of direction, e.g. flashing the headlights, { hazard lights (flashing lights in general [F21S 10/06](#)) }
- B60Q 1/48 . . for parking purposes { (warning arrangements in garages [E04H 6/42](#)) }
- B60Q 1/482 . . . { for locating vehicle in parking lot }
- B60Q 1/484 . . . { for showing outline of vehicle }
- B60Q 1/486 . . . { for indicating that vehicle is in a parked state }
- B60Q 1/488 . . . { for indicating intention to park }
- B60Q 1/50 . . for indicating other intentions or conditions, e.g. request for waiting or overtaking
- B60Q 1/503 . . . { using luminous text displays }
- B60Q 1/506 . . . { for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching }
- B60Q 1/52 . . . for indicating emergencies { (braking indicating devices [B60Q 1/44](#) , portable emergency signal devices [B60Q 7/00](#)) }
- B60Q 1/525 { indicating risk of collision between vehicles or with pedestrians (using video cameras [B62D 1/00](#) ; Radars designed for anti-collision purposes between land vehicles or between land vehicle and fixed obstacles [G01S 13/931](#) ; Control of position or course in two dimensions for land vehicles [G05D 1/021](#) ; Anti-collision systems for road vehicles [G08G 1/16](#)) }
- B60Q 1/54 . . . for indicating speed { outside of the vehicle (automatic vehicle speed controlling fittings including unintended speed signalling devices to the vehicle driver [B60K 31/18](#)) }
- B60Q 1/56 . . for illuminating registrations or the like, { e.g. for licence plates (license plates [B60R 13/10](#)) }

B60Q 3/00 Arrangements or adaptations of lighting devices for vehicle interior

- B60Q 3/001 . { manually adjustable, e.g. colours, orientation, intensity (automatically adjusted [B60Q 3/0293](#)) }
- B60Q 3/002 . { using light guides }
- B60Q 3/004 . . { inside a single lighting device }
- B60Q 3/005 . . { to distribute light between several lighting devices }
- B60Q 3/007 . { with means for electrical plugging into vehicle, e.g. in cigarette lighter, in special plug (arrangement of electrically heated lighters [B60N 3/14](#)) }
- B60Q 3/008 . { using UV light }

- B60Q 3/02 . for lighting passenger or driving compartment
- B60Q 3/0203 .. { Details of mounting onto vehicle interior, e.g. onto ceiling, floor (mounting of lighting devices [F21V 21/04](#) , vehicle liners [B60R 13/02](#) , connectors [H01R 33/00](#)) }
- B60Q 3/0206 ... { Modular mounting systems, e.g. using tracks, rails, multiple plugs (for lighting devices in general [F21V 21/005](#)) }
- B60Q 3/0209 .. { mounted onto or for lighting specific vehicle fittings }
- B60Q 3/0213 ... { on or for sun roofs, or windows (windows per se [B60J 1/00](#) , sun roofs per se [B60J 7/00](#)) }
- B60Q 3/0216 ... { on or for doors or steps (vehicle doors [B60J 5/00](#)) }
- B60Q 3/022 ... { on or for small compartments, e.g. glove compartment (stowing small appliances in vehicles [B60R 7/00](#)) }
- B60Q 3/0223 ... { on or for seats, arm rests or head rests (vehicle seats per se [B60N 2/00](#)) }
- B60Q 3/0226 ... { on or for sun visors (sun visors per se [B60J 3/0204](#)) }
- B60Q 3/023 ... { on or for rear view mirrors (rear view mirror per se [B60R 1/00](#)) }
- B60Q 3/0233 ... { on or for door handles or hand grabs (door handles per se [B60N 3/02](#)) }
- B60Q 3/0236 ... { on or for smoking related tools, e.g. cigarette lighters, ashtrays (cigarette lighters [B60N 3/14](#) , ashtrays [B60N 3/083](#)) }
- B60Q 3/024 ... { on or for steering wheel or gear shift (steering wheels [B62D 1/04](#) , gear shifts [B60K20](#)) }
- B60Q 3/0243 ... { others, e.g. cup holders, ignition locks (lighting for door locks [E05B 15/08](#) , [E05B 17/10](#)) }
- B60Q 3/0246 .. { for mass transit vehicles ([B60Q 3/0209](#) , [B60Q 3/04](#) take precedence, illumination of sides, boards or panels in general [G09F 13](#)) }
- B60Q 3/025 ... { Overall lighting }
- B60Q 3/0253 ... { Specific lighting, e.g. reading lamps }
- B60Q 3/0256 ... { Emergency lighting, e.g. escape routes (illumination of emergency signs [G09F 13](#)) }
- B60Q 3/0259 ... { Circuits or control therefore }
- B60Q 3/0263 .. { Mounted on a shaft (for lighting devices in general [F21V 21/26](#) and [F21V 21/32](#)) }
- B60Q 3/0266 .. { Retractable, concealable lamps }
- B60Q 3/0269 .. { with provision for being portable (portable lighting devices in general [F21L](#)) }
- B60Q 3/0273 .. { Specifically arranged for convertibles }
- B60Q 3/0276 .. { additional interior lighting specifically arranged to prevent conductor dazzling, e.g. by constricting the conductor's pupil }
- B60Q 3/0279 .. { overall lighting alone or in combination with specific lighting, e.g. arrangement of room lamps, combination of room lamps with reading lamps (fastening of components within lighting devices [F21V 17/00](#) , [F21V 19/00](#) and [F21V 23/00](#)) }
- B60Q 3/0283 ... { using lighting panels or mats, e.g. electro-luminescent panels, LED mats (electroluminescent light sources [H05B 33/00](#)) }
- B60Q 3/0286 .. { Specific lighting, e.g. reading lamps, directional or focussed lighting towards small surfaces, e.g. using blends (fastening of components within lighting devices [F21V 17/00](#) , [F21V 19/00](#) and [F21V 23/00](#)) }
- B60Q 3/0289 .. { Strip lighting, edge marking, e.g. using elongated light sources along or around parts to be illuminated }

- B60Q 3/0293 . . { circuits or control for interior lights (circuits for light sources in general [H05B 37/00](#) and [H05B 39/00](#) , for electric vehicles [B60L 1/14](#) , electronic switching [H03K 17/00](#) , remote control [H04Q 9/00](#)) }
- B60Q 3/0296 . . { Switches specifically designed for interior lights, e.g. switching by tilting the lens (mechanical switches in general [H01H](#) , electronic switches in general [H03K 17/00](#) , arrangement of instruments in vehicles in general [B60K 35/00](#) and [B60K 37/00](#)) }
- B60Q 3/04 . . for dashboard { (lighting of individual instruments [G01D](#) , association of lighting devices with LCDs [G02F 1/1335](#)) }
- B60Q 3/042 . . . { lighting onto the surface to be illuminated }
- B60Q 3/044 . . . { lighting through the surface to be illuminated }
- B60Q 3/046 . . . { Circuits or control therefore (for electric vehicles [B60L 1/14](#) ; electronic switching [H03K 17/00](#) ; remote control [H04Q 9/00](#) ; circuits for light sources in general [H05B 37/00](#) , [H05B 39/00](#)) }
- B60Q 3/048 . . . { for varying the light intensity (controlling the light intensity of displays [G09G](#) ; circuits for controlling the light intensity emitted by particular light sources [H05B](#)) }
- B60Q 3/06 . for lighting compartments other than passenger or driving space, e.g. luggage or engine compartment
- B60Q 3/065 . . { with provision for being portable (portable lighting devices in general [F21L](#)) }
- B60Q 5/00** **Arrangements or adaptations of acoustic signal devices { (sound producing devices in general [G10K](#)) }**
- B60Q 5/001 . { Switches therefor }
- B60Q 5/003 . . { mounted on the steering wheel }
- B60Q 5/005 . { automatically actuated }
- B60Q 5/006 . . { indicating risk of collision between vehicles or with pedestrians (using video cameras [B62D 1/00](#) ; Radars designed for anti-collision purposes between land vehicles or between land vehicle and fixed obstacles [G01S 13/931](#) ; Control of position or course in two dimensions for land vehicles [G05D 1/021](#) ; Anti-collision systems for road vehicles [G08G 1/16](#)) }
- B60Q 5/008 . . { for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching }
- B60Q 7/00** **Arrangement or adaptation of portable emergency signal devices on { board } vehicles { to be placed on roadways or vehicles, e.g. warning triangles } , (arrangements for enforcing caution on roads, e.g. marker posts, [E01F 9/00](#) ; signs [G09F](#) , e.g. reflecting warning triangles [G09F 13/16](#))**
- B60Q 7/005 . { Devices without lamps }
- B60Q 7/02 . to be attached to overhanging loads or extending parts of vehicle
- B60Q 9/00** **Arrangements or adaptations of signal devices not provided for in one of the preceding main groups, { e.g. haptic signalling }**
- B60Q 9/001 . { Alarm devices when the motor is stopped and the lights are on }
- B60Q 9/002 . { 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 [E04H 6/42](#)) }
- B60Q 9/003 . . { using physical contactors, e.g. arms that trigger alarm upon contact with obstacle }
- B60Q 9/004 . . { using wave sensors (radar designed for anti-collision purposes between land vehicles or between land vehicles and fixed obstacles [G01S 13/931](#)) }
- B60Q 9/005 . . . { using a video camera }
- B60Q 9/006 . . . { using a distance sensor }
- B60Q 9/007 . . { providing information about the distance to an obstacle, e.g. varying sound }
- B60Q 9/008 . { for anti-collision purposes }

B60Q 11/00 Arrangements of monitoring devices for devices provided for in groups [B60Q 1/00](#) to [B60Q 9/00](#) { (testing of electric installations on road vehicle [G01R 31/00](#)) }

- B60Q 11/002 . { Emergency driving lights in the event of failure of the principal lighting circuit }
- B60Q 11/005 . { for lighting devices, e.g. indicating if lamps are burning or not }
- B60Q 11/007 . . { the lighting devices indicating change of drive direction (change of drive direction indicators [B60Q 1/34](#)) }

Guidance heading:

B60Q 2200/00 Special features or arrangements of vehicle headlamps

- B60Q 2200/30 . Special arrangements for adjusting headlamps, e.g. means for transmitting the movements for adjusting the lamps
- B60Q 2200/32 . . Ball-joints
- B60Q 2200/34 . . Deformable parts, i.e. the adjustment is performed by bending or stretching a part
- B60Q 2200/36 . . Conjoint adjustments, i.e. a mechanical link allows conjoint adjustment of several units
- B60Q 2200/38 . . Automatic calibration of motor-driven means for adjusting headlamps, i.e. when switching on the headlamps, not during mounting at factories

Guidance heading:

B60Q 2300/00 Indexing codes for automatically adjustable headlamps or automatically dimmable headlamps

- B60Q 2300/05 . Special features for controlling or switching of the light beam
- B60Q 2300/052 . . Switching delay, i.e. the beam is not switched or changed instantaneously upon occurrence of a condition change
- B60Q 2300/054 . . Variable non-standard intensity, i.e. emission of various beam intensities different from standard intensities, e.g. continuous or stepped transitions of intensity
- B60Q 2300/056 . . Special anti-blinding beams, e.g. a standard beam is chopped or moved in order not to blind
- B60Q 2300/10 . Indexing codes relating to particular vehicle conditions

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| B60Q 2300/11 | .. | Linear movements of the vehicle |
| B60Q 2300/112 | ... | Vehicle speed |
| B60Q 2300/114 | ... | Vehicle acceleration or deceleration |
| B60Q 2300/116 | ... | Vehicle at a stop |
| B60Q 2300/12 | .. | Steering parameters |
| B60Q 2300/122 | ... | Steering angle |
| B60Q 2300/124 | ... | Steering speed |
| B60Q 2300/126 | ... | Hysteresis behavior based on steering |
| B60Q 2300/128 | ... | Steering dead zone |
| B60Q 2300/13 | .. | Attitude of the vehicle body |
| B60Q 2300/132 | ... | Pitch |
| B60Q 2300/134 | ... | Yaw |
| B60Q 2300/136 | ... | Roll |
| B60Q 2300/14 | .. | Other vehicle conditions |
| B60Q 2300/142 | ... | Turn signal actuation |
| B60Q 2300/144 | ... | Rearward ratio actuation |
| B60Q 2300/146 | ... | Abnormalities, e.g. fail-safe |
| B60Q 2300/20 | . | Indexing codes relating to the driver or the passengers |
| B60Q 2300/21 | .. | Manual control |
| B60Q 2300/22 | .. | Seat occupation |
| B60Q 2300/23 | .. | Driver's line of sight |
| B60Q 2300/30 | . | Indexing codes relating to the vehicle environment |
| B60Q 2300/305 | .. | Calendar date or clock time |
| B60Q 2300/31 | .. | Atmospheric conditions |
| B60Q 2300/312 | ... | Adverse weather |
| B60Q 2300/314 | ... | Ambient light |
| B60Q 2300/32 | .. | Road surface or travel path |
| B60Q 2300/322 | ... | Road curvature |
| B60Q 2300/324 | ... | Road inclination, e.g. uphill or downhill |
| B60Q 2300/33 | .. | Driving situation |
| B60Q 2300/331 | ... | characterised by the driving side, e.g. on the left or right hand side |
| B60Q 2300/332 | ... | on city roads |
| B60Q 2300/3321 | .... | Detection of streetlights |
| B60Q 2300/333 | ... | on suburban or country roads |
| B60Q 2300/334 | ... | on motorways |
| B60Q 2300/335 | ... | Number or size of road lanes |
| B60Q 2300/336 | ... | Crossings |
| B60Q 2300/337 | ... | Tunnels or bridges |
| B60Q 2300/338 | ... | Overtaking |
| B60Q 2300/40 | . | Indexing codes relating to other road users or special conditions |

- B60Q 2300/41 . . preceding vehicle
- B60Q 2300/42 . . oncoming vehicle
- B60Q 2300/43 . . following vehicle
- B60Q 2300/45 . . Special conditions, e.g. pedestrians, road signs or potential dangers
- B60Q 2300/47 . . Direct command from other road users, i.e. the command for switching or changing the beam is sent by other vehicles or road devices

B60Q 2400/00 Special features or arrangements of exterior signal lamps for vehicles

- B60Q 2400/10 . Electroluminescent surfaces, i.e. signalling by way of electroluminescent strips or panels
- B60Q 2400/20 . Multi-color single source or LED matrix, e.g. yellow blinker and red brake lamp generated by single lamp
- B60Q 2400/30 . Daytime running lights (DRL), e.g. circuits or arrangements therefor
- B60Q 2400/40 . Welcome lights, i.e. specific or existing exterior lamps to assist leaving or approaching the vehicle
- B60Q 2400/50 . Projected signs, i.e. symbol or information is projected onto the road

B60Q 2500/00 Special features or arrangements of vehicle interior lamps

- B60Q 2500/10 . embedded in interior trim, e.g. integrated in headliner layers
- B60Q 2500/20 . associated with air conditioning arrangements

B60Q 2900/00 Features of lamps not covered by other groups in [B60Q](#)

- B60Q 2900/10 . Retrofit arrangements
- B60Q 2900/20 . Arrangements for easy recycling, e.g. for easy dismantling or use of special materials
- B60Q 2900/30 . Lamps commanded by wireless transmissions