

**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](#)

**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 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 <a href="#">F21V 15/04</a> ; shock absorbing devices in general <a href="#">F16F 15/04</a> ) }
B60Q 1/05	...	Retractable
B60Q 1/06	...	adjustable, e.g. remotely controlled from inside vehicle ( <a href="#">B60Q 1/05</a> takes precedence; { changing the characteristics or distribution of the light by adjustment of parts, e.g. reflectors, light sources, lenses, screens <a href="#">F21V 14/00</a> } )
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 ( <a href="#">B60Q 1/10</a> , <a href="#">B60Q 1/12</a> , <a href="#">B60Q 1/1423</a> 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 <a href="#">B60Q 1/076</a> ) }
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 <a href="#">B60Q 1/076</a> ) }
B60Q 1/124	.....	by mechanical means
B60Q 1/14	...	having dimming means {( lighting power supply circuits in general <a href="#">H05B</a> ) }
B60Q 1/1407	....	{ General lighting circuits comprising dimming circuits ( dimming circuits per se <a href="#">B60Q 1/1415</a> ) }
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 <a href="#">F21V 11/04</a> ) }
B60Q 1/1446	....	{ controlled by mechanically actuated switches }
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 <a href="#">B60Q 1/0483</a> })
B60Q 1/20	....	Fog lights ({ single shaped beam lighting devices specially adapted for vehicles for penetrating fog or preventing glare <a href="#">F21S 8/12</a> })
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 <a href="#">B60Q 1/06</a> ) }
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 <a href="#">F21S 48/20</a> ; means for the lighting or illuminating of aerials, e.g. for purpose of warning <a href="#">H01Q 1/06</a> })
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 <a href="#">F21S 10/06</a> ) }
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 <a href="#">F21S 8/085</a> ) }
B60Q 1/2661	..	{ mounted on parts having other functions ( on wheels <a href="#">B60Q 1/323</a> ) }
B60Q 1/2665	...	{ on rear-view mirrors ( lighting devices for vehicle interior on or for rear-view mirrors <a href="#">B60Q 3/023</a> ; adaptations or arrangements of mirrors for use on cycles <a href="#">B62J 29/00</a> ; rear-view mirror arrangements <a href="#">B60R 1/02</a> ; mirror assemblies combined with lamps <a href="#">B60R 1/1207</a> ) }

B60Q 1/2669	...	{ on door or boot handles ( lighting devices for vehicle interior on door handles <a href="#">B60Q 3/0233</a> ; vehicle doors <a href="#">B60J 5/00</a> illuminating devices on or for locks or keys <a href="#">E05B 17/10</a> ; Keyhole finders <a href="#">E05B 15/08</a> )}
B60Q 1/2673	...	{ on parts worn by the driver, e.g. clothes ( professional or sporting clothes with reflecting or luminous means <a href="#">A41D 13/01</a> ), gloves ( protective gloves with reflecting or luminous means <a href="#">A41D 19/0157</a> ), or bags, specially adapted to provide auxiliary vehicle signalling }
B60Q 1/2676	....	{ Helmets ( helmets in general <a href="#">A42B 3/00</a> ; helmets with signalling or lighting devices <a href="#">A42B 3/0433</a> )}
B60Q 1/268	...	{ on windscreens or windows ( <a href="#">B60Q 1/302</a> takes precedence; windows or windscreens in general <a href="#">B60J 1/00</a> ; lighting devices for vehicle interior on or for windows <a href="#">B60Q 3/0213</a> )}
B60Q 1/2684	...	{ on wipers or windscreen washers ( vehicle wipers <a href="#">B60S 1/04</a> ; windscreen washers <a href="#">B60S 1/46</a> )}
B60Q 1/2688	...	{ on exhaust pipes ( exhaust or silencing apparatuses in general <a href="#">F01N</a> )}
B60Q 1/2692	..	{ retractable lights ( retractable headlights <a href="#">B60Q 1/05</a> )}
B60Q 1/2696	..	{ Mounting of devices using LEDs ( fastening of LEDs on printed circuits <a href="#">F21V 19/001</a> )}
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 <a href="#">B60P 1/4464</a> )}
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 <a href="#">E05B 17/10</a> )}
B60Q 1/326	...	{ on or for wheels }
B60Q 1/34	..	for indicating change of drive direction ( <a href="#">B60Q 1/22</a> takes precedence )
B60Q 1/343	...	{ Manually actuated switching arrangements therefor ( Hand actuated multifunction switches <a href="#">B60Q 1/1461</a> ; <a href="#">B60Q 1/40</a> 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 <a href="#">B60Q 1/1461</a> )}
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 <a href="#">H01H</a> )}
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 13/00](#) ) }
- 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 13/00](#) ) }
- 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](#) ) }
  
- 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
  
- 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
- 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