

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 17/06 , 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 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 }
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)}
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 [B60K 20/00](#))}

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