

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

1. 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
2. Attention is drawn to the Note following the title of class [B60](#)
3. Attention is drawn to the following places :

B60K 28/00	Safety devices, e.g. sleeping driver
B60R 25/00	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