

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B60 VEHICLES IN GENERAL

(NOTE omitted)

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

NOTES

1. This subclass also covers the operation and control of lighting devices, for example:
 - arrangement or adaptation of lighting switches or signal-initiating means for vehicles.
 - control of lighting devices in relation to the vehicle as a whole, e.g. for levelling, swivelling or aiming.
2. This subclass does not cover optical, mechanical, thermal or electrical arrangement of elements within lighting devices, which are covered by groups [F21S 41/00](#) – [F21S 45/00](#).
3. Attention is drawn to the Note following the title of class [B60](#).
4. Attention is drawn to the following places:
5. [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
[G01S](#) Infrared 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 in the CPC scheme. The subject matter for these IPC 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

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|---------------|--|---------------|---|
| 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}) | 1/0017 | . {Devices integrating an element dedicated to another function} |
| 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)} | 1/0023 | . . {the element being a sensor, e.g. distance sensor, camera} |
| 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)} | 1/0029 | . {Spatial arrangement} |
| | | 1/0035 | . . {relative to the vehicle} |
| | | 1/0041 | . . {of several lamps in relation to each other} |
| | | 1/0047 | . . . {Signalling unit mounted on a headlamp unit} |
| | | 1/0052 | . . . {concentric} |
| | | 1/0058 | . . . {Stacked, i.e. one lamp located behind the other in the optical axis direction} |

- 1/0064 . {with provision for maintenance, e.g. changing the light bulb (swivel arrangements [B60Q 1/0425](#); fastening of covers [F21S 41/50](#); changing light sources in general [F21V 19/04](#); fastening of light sources or lamp holders [F21S 41/19](#), [F21S 43/19](#))}
- 1/007 . . {via a removable cap (fastening of the light source by a cap holding the light source [F21S 41/19](#), [F21S 43/19](#))}
- 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](#))}
- 1/0082 . . {mounted on the steering wheel}
- 1/0088 . {Details of electrical connections ([B60Q 1/305](#) takes precedence; electrical connectors in general [H01R](#); electrical connection of the light source itself [F21S 41/192](#), [F21S 43/195](#))}
- 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 41/192](#), [F21S 43/195](#))}
- 1/02 . the devices being primarily intended to illuminate the way ahead or to illuminate other areas of way or environments
- 1/04 . . the devices being headlights
- 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](#))}
- 1/0416 {the housing being mounted on the vehicle body using rails}
- 1/0425 {the housing being swivel mounted on the vehicle body}
- 1/0433 {the housing being fastened onto the vehicle body using screws (adjustable headlamp by rotation of a screw [B60Q 1/0683](#))}
- 1/0441 {the housing being fastened onto the vehicle body using means other than screws}
- 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](#))}
- 1/0458 {the front cover being directly mounted onto the vehicle body (mounting the cover on the housing [F21S 41/50](#))}
- 1/0466 {with arrangement for sealing the headlamp with respect to the vehicle body, or for concealing gaps between the headlamp and the vehicle body}
- 1/0475 {with provisions for pre-mounting, for temporary holding the headlamp before or during final mounting}
- 1/0483 . . . {mounted on a bracket, e.g. details concerning the mounting of the lamps on the vehicle body}
- 1/0491 . . . {Shock absorbing devices therefor (resilient mounting of lighting devices in general [F21V 15/04](#); shock absorbing devices in general [F16F 15/04](#))}
- 1/05 . . . retractable
- 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](#))}
- 1/064 by fluid means
- 1/068 by mechanical means
- 1/0683 {Adjustable by rotation of a screw}
- 1/0686 {using a position indicator mounted on the headlight and permanently attached thereto}
- 1/072 comprising a flexible element, e.g. chain
- 1/076 by electrical means {including means to transmit the movements, e.g. shafts or joints}
- 1/08 automatically
- 1/085 {due to special conditions, e.g. adverse weather, type of road, badly illuminated road signs or potential dangers ([B60Q 1/10](#), [B60Q 1/12](#), [B60Q 1/1423](#) take precedence)}
- 1/10 due to vehicle inclination, e.g. due to load distribution
- 1/105 by fluid means
- 1/11 by mechanical means
- 1/115 by electric means {(details of the electric drive components, e.g. motors, shafts, ball joints [B60Q 1/076](#))}
- 1/12 due to steering position
- 1/121 {with fluid actuating means}
- 1/122 {with electrical actuating means (details of the electric drive components, e.g. motors, shafts, ball joints [B60Q 1/076](#))}
- 1/124 by mechanical means
- 1/14 . . . having dimming means {(lighting power supply circuits in general [H05B](#))}
- 1/1407 {General lighting circuits comprising dimming circuits (dimming circuits per se [B60Q 1/1415](#))}
- 1/1415 {Dimming circuits}
- 1/1423 {Automatic dimming circuits, i.e. switching between high beam and low beam due to change of ambient light or light level in road traffic}
- 1/143 {combined with another condition, e.g. using vehicle recognition from camera images or activation of wipers}
- 1/1438 {Actuating means for dimming masks or screens (adjustable screens per se [F21V 11/04](#))}
- 1/1446 {controlled by mechanically actuated switches}
- 1/1453 {Hand actuated switches}
- 1/1461 {Multifunction switches for dimming headlights and controlling additional devices, e.g. for controlling direction indicating lights}
- 1/1469 {controlled by or attached to a single lever, e.g. steering column stalk switches}
- 1/1476 {comprising switch controlling means located near the free end of the lever, e.g. press buttons, rotatable rings}
- 1/1484 {mounted on the steering wheel}

- 1/1492 {Foot actuated switches}
- 1/16 . . . illuminating the way asymmetrically
- 1/18 . . . being additional front lights {(bracket mounted headlights [B60Q 1/0483](#))}
- 1/20 Fog lights {(single shaped beam lighting devices specially adapted for vehicles for penetrating fog or preventing glare)}
- 1/22 . . for reverse drive
- 1/24 . . for lighting other areas than only the way ahead
- 1/245 . . . {using spotlights adjustable from within the vehicle (adjustable headlights [B60Q 1/06](#))}
- 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; means for the lighting or illuminating of aerials, e.g. for purpose of warning [H01Q 1/06](#))}
- 1/2603 . . {Attenuation of the light according to ambient luminosity, e.g. for braking or direction indicating lamps}
- 1/2607 . . {comprising at least two indicating lamps}
- 1/2611 . . {Indicating devices mounted on the roof of the vehicle (flashing light sources in general [F21S 10/06](#))}
- 1/2615 . . {mounted on the vehicle body, e.g. with magnets}
- 1/2619 . . {built in the vehicle body}
- 1/2623 . . . {Details of the fastening means}
- 1/2626 {Screw-nut fasteners}
- 1/263 {Snap-in fasteners}
- 1/2634 {Fastening by rotating the device housing about its longitudinal axis, e.g. bayonet fasteners}
- 1/2638 . . . {Positioning the device housing by indexing means separate from the fastening means, e.g. pins, rails}
- 1/2642 . . . {with provision for adjusting the alignment of the device housing with respect to the vehicle body}
- 1/2646 {using dowels or expansible elements}
- 1/2649 . . . {with provision for pre-mounting or temporary holding the device before or during final mounting}
- 1/2653 . . . {with arrangement for sealing the device with respect to the vehicle body, or for concealing gaps between the device and the vehicle body}
- 1/2657 . . {mounted on a shaft, e.g. telescopic (lamps on antennas or powerlines [F21S 8/085](#))}
- 1/2661 . . {mounted on parts having other functions (on wheels [B60Q 1/323](#))}
- 1/2665 . . . {on rear-view mirrors (lighting devices for vehicle interior on or for rear-view mirrors [B60Q 3/258](#); rear-view mirror arrangements [B60R 1/02](#); mirror assemblies combined with lamps [B60R 1/1207](#); adaptations or arrangements of mirrors for use on cycles [B62J 29/00](#))}
- 1/2669 . . . {on door or boot handles (lighting devices for vehicle interior on door handles [B60Q 3/267](#); vehicle doors [B60J 5/00](#); illuminating devices on or for locks or keys [E05B 17/10](#); keyhole finders [E05B 15/08](#))}
- 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}
- 1/2676 {Helmets (helmets in general [A42B 3/00](#); helmets with signalling or lighting devices [A42B 3/0433](#))}
- 1/268 {on windcreens or windows ([B60Q 1/302](#) takes precedence; lighting devices for vehicle interior on or for windows [B60Q 3/208](#); windows or windcreens in general [B60J 1/00](#))}
- 1/2684 . . . {on wipers or windscreen washers (vehicle wipers [B60S 1/04](#); windscreen washers [B60S 1/46](#))}
- 1/2688 . . . {on exhaust pipes (exhaust or silencing apparatuses in general [F01N](#))}
- 1/2692 . . {retractable lights (retractable headlights [B60Q 1/05](#))}
- 1/2696 . . {Mounting of devices using LEDs (fastening of LEDs on printed circuits [F21V 19/001](#))}
- 1/28 . . for indicating front of vehicle
- 1/30 . . for indicating rear of vehicle, e.g. by means of reflecting surfaces
- 1/302 . . . {mounted in the vicinity, e.g. in the middle, of a rear window}
- 1/305 . . . {Indicating devices for towed vehicles}
- 1/307 . . . {mounted on loading platforms (warning signals on loading platforms [B60P 1/4464](#))}
- 1/32 . . for indicating vehicle sides {, e.g. clearance lights}
- 1/323 . . . {on or for doors or running boards, e.g. to facilitate access to the vehicle (illumination of door locks [E05B 17/10](#))}
- 1/326 . . . {on or for wheels}
- 1/34 . . for indicating change of drive direction ([B60Q 1/22](#) takes precedence)
- 1/343 . . . {Manually actuated switching arrangements therefor (hand actuated multifunction switches [B60Q 1/1461](#); [B60Q 1/40](#) takes precedence)}
- 1/346 . . . {with automatic actuation}
- 1/36 . . . using movable members, e.g. arms with built-in flashing lamps
- 1/38 . . . using immovably-mounted light sources, e.g. fixed flashing lamps
- 1/382 {Electronic temporisation with semiconductor amplification}
- 1/385 {Electronic temporisation with relay amplification}
- 1/387 {Mechanical temporisation}
- 1/40 . . . having {mechanical, electric or electronic} automatic return to inoperative position
- 1/42 {having mechanical automatic return to inoperative position} due to steering-wheel position {, e.g. with roller wheel control}
- 1/425 {using a latching element for resetting a switching element (hand actuated multifunction switches [B60Q 1/1461](#))}
- 1/44 . . for indicating braking action or preparation for braking, {e.g. by detection of the foot approaching the brake pedal}

- 1/441 . . . {Electric switches operable by the driver's pedals (electric switches in general [H01H](#))}
- 1/442 . . . {visible on the front side of the vehicle, e.g. for pedestrians}
- 1/444 . . . {with indication of the braking strength or speed changes, e.g. by changing shape or intensity of the indication ([B60Q 1/1407](#), [B60Q 1/442](#), [B60Q 1/447](#) take precedence)}
- 1/445 . . . {controlled by inertial devices}
- 1/447 {with indication of the braking strength or speed changes, e.g. by changing the shape or intensity of the indication}
- 1/448 . . . {specially adapted for vehicles with ABS}
- 1/46 . . for giving flashing caution signals during drive, other than signalling change of direction, e.g. flashing the headlights {, hazard lights (flashing lights in general [F21S 10/06](#))}
- 1/48 . . for parking purposes {(warning arrangements in garages [E04H 6/42](#))}
- 1/482 . . . {for locating vehicle in parking lot}
- 1/484 . . . {for showing outline of vehicle}
- 1/486 . . . {for indicating that vehicle is in a parked state}
- 1/488 . . . {for indicating intention to park}
- 1/50 . . for indicating other intentions or conditions, e.g. request for waiting or overtaking
- 1/503 . . . {using luminous text displays}
- 1/506 . . . {for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching}
- 1/52 . . . for indicating emergencies {(braking indicating devices [B60Q 1/44](#), portable emergency signal devices [B60Q 7/00](#))}
- 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](#))}
- 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](#))}
- 1/56 . . for illuminating registrations or the like {, e.g. for licence plates (license plates [B60R 13/10](#))}

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

WARNING

Group [B60Q 3/00](#) is impacted by reclassification into groups [B60Q 3/40](#), [B60Q 3/50](#), [B60Q 3/54](#), [B60Q 3/60](#), and [B60Q 3/70](#).

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

- 3/10 . . for dashboards
- 3/12 . . lighting onto the surface to be illuminated
- 3/14 . . lighting through the surface to be illuminated
- 3/16 . . Circuits; Control arrangements
- 3/18 . . . for varying the light intensity

- 3/20 . . for lighting specific fittings of passenger or driving compartments; mounted on specific fittings of passenger or driving compartments ([lighting for dashboards B60Q 3/10](#))

WARNING

Group [B60Q 3/20](#) is impacted by reclassification into groups [B60Q 3/242](#) and [B60Q 3/292](#).

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

- 3/208 . . Sun roofs; Windows
- 3/217 . . Doors, e.g. door sills; Steps
- 3/225 . . Small compartments, e.g. glove compartments
- 3/233 . . Seats; Arm rests; Head rests
- 3/242 . . Safety belts; Body harnesses

WARNING

Group [B60Q 3/242](#) is incomplete pending reclassification of documents from group [B60Q 3/20](#).

Groups [B60Q 3/20](#) and [B60Q 3/242](#) should be considered in order to perform a complete search.

- 3/252 . . Sun visors
- 3/258 . . Rear-view mirrors
- 3/267 . . Door handles; Hand grips
- 3/275 . . Smoking-related fittings, e.g. cigarette lighters or ashtrays
- 3/283 . . Steering wheels; Gear levers
- 3/292 . . Ignition locks

WARNING

Group [B60Q 3/292](#) is incomplete pending reclassification of documents from group [B60Q 3/20](#).

Groups [B60Q 3/20](#) and [B60Q 3/292](#) should be considered in order to perform a complete search.

- 3/30 . . for compartments other than passenger or driving compartments, e.g. luggage or engine compartments
- 3/35 . . Portable lighting devices
- 3/40 . . specially adapted for specific vehicle types

WARNING

Group [B60Q 3/40](#) is incomplete pending reclassification of documents from group [B60Q 3/00](#).

Groups [B60Q 3/00](#) and [B60Q 3/40](#) should be considered in order to perform a complete search.

- 3/41 . . for mass transit vehicles, e.g. buses
- 3/43 . . . General lighting
- 3/44 . . . Spotlighting, e.g. reading lamps
- 3/46 . . . Emergency lighting, e.g. for escape routes
- 3/47 . . . Circuits; Control arrangements
- 3/49 . . for vehicles with non-fixed roofs, e.g. convertibles

- 3/50 . Mounting arrangements (for compartments other than passenger or driving compartments [B60Q 3/30](#); specially adapted for specific vehicle types [B60Q 3/40](#))
- WARNING**
- Group [B60Q 3/50](#) is incomplete pending reclassification of documents from group [B60Q 3/00](#).
- Groups [B60Q 3/00](#) and [B60Q 3/50](#) should be considered in order to perform a complete search.
- 3/51 . . for mounting lighting devices onto vehicle interior, e.g. onto ceiling or floor
- 3/53 . . . Modular mounting systems, e.g. using tracks, rails or multiple plugs
- 3/54 . . Lighting devices embedded in interior trim, e.g. in roof liners
- WARNING**
- Group [B60Q 3/54](#) is incomplete pending reclassification of documents from group [B60Q 3/00](#).
- Groups [B60Q 3/00](#) and [B60Q 3/54](#) should be considered in order to perform a complete search.
- 3/56 . . Lighting devices mounted on elongate supports, e.g. on flexible arms
- 3/57 . . Retractable or concealable lighting devices
- 3/59 . . Lighting devices mounted in the vehicle interior and adapted for portability
- 3/60 . characterised by optical aspects
- WARNING**
- Group [B60Q 3/60](#) is incomplete pending reclassification of documents from group [B60Q 3/00](#).
- Groups [B60Q 3/00](#) and [B60Q 3/60](#) should be considered in order to perform a complete search.
- 3/62 . . using light guides
- 3/64 . . . for a single lighting device
- 3/66 . . . for distributing light among several lighting devices
- 3/68 . . using ultra-violet light
- 3/70 . characterised by the purpose
- WARNING**
- Group [B60Q 3/70](#) is incomplete pending reclassification of documents from group [B60Q 3/00](#).
- Groups [B60Q 3/00](#) and [B60Q 3/70](#) should be considered in order to perform a complete search.
- 3/72 . . for preventing the driver from being dazzled
- 3/74 . . for overall compartment lighting; for overall compartment lighting in combination with specific lighting, e.g. room lamps with reading lamps (general lighting mounted on specific fittings [B60Q 3/20](#); general lighting for mass transit vehicles [B60Q 3/43](#))
- 3/745 . . . {using lighting panels or mats, e.g. electro-luminescent panels, LED mats}
- 3/76 . . for spotlighting, e.g. reading lamps (spotlighting on or for specific fittings [B60Q 3/20](#); spotlighting in mass transit vehicles [B60Q 3/44](#))
- 3/78 . . for generating luminous strips, e.g. for marking trim component edges
- 3/80 . Circuits; Control arrangements (for dashboards [B60Q 3/16](#); for mass transit vehicles [B60Q 3/47](#))
- 3/82 . . Switches specially adapted for vehicle interior lighting, e.g. switching by tilting the lens
- 3/85 . . for manual control of the light, e.g. of colour, orientation or intensity
- 3/88 . . Means for plugging to the electrical power supply of the vehicle, e.g. by using cigarette lighter sockets
- 5/00 Arrangements or adaptations of acoustic signal devices {(sound producing devices in general [G10K](#))}**
- 5/001 . {Switches therefor}
- 5/003 . . {mounted on the steering wheel}
- 5/005 . {automatically actuated}
- 5/006 . . {indicating risk of collision between vehicles or with pedestrians (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](#))}
- 5/008 . . {for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching}
- 7/00 Arrangement or adaptation of portable emergency signal devices on vehicles**
- 7/005 . {Devices without lamps}
- 7/02 . to be attached to overhanging loads or extending parts of vehicle
- 9/00 Arrangements or adaptations of signal devices not provided for in one of the preceding main groups, {e.g. haptic signalling}**
- 9/001 . {Alarm devices when the motor is stopped and the lights are on}
- 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](#))}
- 9/003 . . {using physical contactors, e.g. arms that trigger alarm upon contact with obstacle}
- 9/004 . . {using wave sensors (radar designed for anti-collision purposes between land vehicles or between land vehicles and fixed obstacles [G01S 13/931](#))}
- 9/005 . . . {using a video camera}
- 9/006 . . . {using a distance sensor}
- 9/007 . . {providing information about the distance to an obstacle, e.g. varying sound}
- 9/008 . {for anti-collision purposes}
- 11/00 Arrangements of monitoring devices for devices provided for in groups [B60Q 1/00](#) - [B60Q 9/00](#) {(testing of electric installations on road vehicle [G01R 31/00](#))}**
- 11/002 . {Emergency driving lights in the event of failure of the principal lighting circuit}

11/005	. {for lighting devices, e.g. indicating if lamps are burning or not}	2300/324	. . . Road inclination, e.g. uphill or downhill
11/007	. . {the lighting devices indicating change of drive direction (change of drive direction indicators B60Q 1/34)}	2300/33	. . Driving situation
2200/00	Special features or arrangements of vehicle headlamps	2300/331	. . . characterised by the driving side, e.g. on the left or right hand side
2200/30	. Special arrangements for adjusting headlamps, e.g. means for transmitting the movements for adjusting the lamps	2300/332	. . . on city roads
2200/32	. . Ball-joints	2300/3321 Detection of streetlights
2200/34	. . Deformable parts, i.e. the adjustment is performed by bending or stretching a part	2300/333	. . . on suburban or country roads
2200/36	. . Conjoint adjustments, i.e. a mechanical link allows conjoint adjustment of several units	2300/334	. . . on motorways
2200/38	. . Automatic calibration of motor-driven means for adjusting headlamps, i.e. when switching on the headlamps, not during mounting at factories	2300/335	. . . Number or size of road lanes
2300/00	Indexing codes for automatically adjustable headlamps or automatically dimmable headlamps	2300/336	. . . Crossings
2300/05	. Special features for controlling or switching of the light beam	2300/337	. . . Tunnels or bridges
2300/052	. . Switching delay, i.e. the beam is not switched or changed instantaneously upon occurrence of a condition change	2300/338	. . . Overtaking
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	2300/40	. Indexing codes relating to other road users or special conditions
2300/056	. . Special anti-blinding beams, e.g. a standard beam is chopped or moved in order not to blind	2300/41	. . preceding vehicle
2300/10	. Indexing codes relating to particular vehicle conditions	2300/42	. . oncoming vehicle
2300/11	. . Linear movements of the vehicle	2300/43	. . following vehicle
2300/112	. . . Vehicle speed	2300/45	. . Special conditions, e.g. pedestrians, road signs or potential dangers
2300/114	. . . Vehicle acceleration or deceleration	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
2300/116	. . . Vehicle at a stop	2400/00	Special features or arrangements of exterior signal lamps for vehicles
2300/12	. . Steering parameters	2400/10	. Electroluminescent surfaces, i.e. signalling by way of electroluminescent strips or panels
2300/122	. . . Steering angle	2400/20	. Multi-color single source or LED matrix, e.g. yellow blinker and red brake lamp generated by single lamp
2300/124	. . . Steering speed	2400/30	. Daytime running lights [DRL], e.g. circuits or arrangements therefor
2300/126	. . . Hysteresis behavior based on steering	2400/40	. Welcome lights, i.e. specific or existing exterior lamps to assist leaving or approaching the vehicle
2300/128	. . . Steering dead zone	2400/50	. Projected signs, i.e. symbol or information is projected onto the road
2300/13	. . Attitude of the vehicle body	2500/00	Special features or arrangements of vehicle interior lamps
2300/132	. . . Pitch	2500/10	. embedded in interior trim, e.g. integrated in headliner layers
2300/134	. . . Yaw	2500/20	. associated with air conditioning arrangements
2300/136	. . . Roll	2900/00	Features of lamps not covered by other groups in B60Q
2300/14	. . Other vehicle conditions	2900/10	. Retrofit arrangements
2300/142	. . . Turn signal actuation	2900/20	. Arrangements for easy recycling, e.g. for easy dismantling or use of special materials
2300/144	. . . Rearward ratio actuation	2900/30	. Lamps commanded by wireless transmissions
2300/146	. . . Abnormalities, e.g. fail-safe		
2300/20	. Indexing codes relating to the driver or the passengers		
2300/21	. . Manual control		
2300/22	. . Seat occupation		
2300/23	. . Driver's line of sight		
2300/30	. Indexing codes relating to the vehicle environment		
2300/305	. . Calendar date or clock time		
2300/31	. . Atmospheric conditions		
2300/312	. . . Adverse weather		
2300/314	. . . Ambient light		
2300/32	. . Road surface or travel path		
2300/322	. . . Road curvature		