

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](#).

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

1/00	Arrangement of optical signalling or lighting devices, the mounting or supporting thereof or circuits therefor (for lighting vehicle interior B60Q 3/00)	1/0094	. . {Arrangement of electronic circuits separated from the light source, e.g. mounting of housings for starter circuits for discharge lamps (arrangements being part of the light source holder F21V 17/06, F21S 43/195)}
1/0005	. {Devices preventing the lights from becoming dirty or damaged, e.g. protection grids or cleaning by air flow (windshield wipers for cleaning optical devices of vehicles B60S 1/04)}	1/02	. the devices being primarily intended to illuminate the way ahead or to illuminate other areas of way or environments
1/0011	. {with light guides for distributing the light between several lighting or signalling devices}	1/04	. . the devices being headlights
1/0017	. {Devices integrating an element dedicated to another function}	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)}
1/0023	. . {the element being a sensor, e.g. distance sensor, camera}	1/0416 {the housing being mounted on the vehicle body using rails}
1/0029	. {Spatial arrangement}	1/0425 {the housing being swivel mounted on the vehicle body}
1/0035	. . {relative to the vehicle}	1/0433 {the housing being fastened onto the vehicle body using screws (adjustable headlamp by rotation of a screw B60Q 1/0683)}
1/0041	. . {of several lamps in relation to each other}	1/0441 {the housing being fastened onto the vehicle body using means other than screws}
1/0047	. . . {Signalling unit mounted on a headlamp unit}	1/045 {with provision for adjusting the alignment of the headlamp housing with respect to the vehicle body}
1/0052	. . . {concentric}	1/0458 {the front cover being directly mounted onto the vehicle body}
1/0058	. . . {Stacked, i.e. one lamp located behind the other in the optical axis direction}	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}
1/0064	. {with provision for maintenance, e.g. changing the light bulb (swivel arrangements B60Q 1/0425)}		
1/007	. . {via a removable cap}		
1/0076	. {Switches therefor (B60Q 1/1446 , B60Q 1/343 , B60Q 1/40 take precedence)}		
1/0082	. . {mounted on the steering wheel}		
1/0088	. {Details of electrical connections (B60Q 1/305 takes precedence; electrical connection of the light source itself F21S 41/192 , F21S 43/195)}		

- 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}

WARNING

Group [B60Q 1/0491](#) is impacted by reclassification into group [B60Q 1/0495](#).

Groups [B60Q 1/0491](#) and [B60Q 1/0495](#) should be considered in order to perform a complete search.

- 1/0495 {Frangible brackets}

WARNING

Group [B60Q 1/0495](#) is incomplete pending reclassification of documents from group [B60Q 1/0491](#).

Groups [B60Q 1/0491](#) and [B60Q 1/0495](#) should be considered in order to perform a complete search.

- 1/05 . . . retractable
- 1/06 . . . adjustable, e.g. remotely-controlled from inside vehicle ([B60Q 1/05](#) takes precedence)
- 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
- 1/1407 {General lighting circuits comprising dimming circuits}
- 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}
- 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
- 1/22 . . for reverse drive
- 1/24 . . for lighting other areas than only the way ahead

WARNING

Group [B60Q 1/24](#) is impacted by reclassification into groups [B60Q 1/245](#), [B60Q 1/247](#) and [B60Q 1/249](#).

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

- 1/245 . . . {Searchlights, e.g. adjustable from within the vehicle (adjustable headlights [B60Q 1/06](#))}

WARNING

Group [B60Q 1/245](#) is incomplete pending reclassification of documents from group [B60Q 1/24](#).

Groups [B60Q 1/24](#) and [B60Q 1/245](#) should be considered in order to perform a complete search.

- 1/247 . . . {for illuminating the close surroundings of the vehicle, e.g. to facilitate entry or exit (for reverse drive [B60Q 1/22](#); by opening a side door [B60Q 1/323](#))}

WARNING

Group [B60Q 1/247](#) is incomplete pending reclassification of documents from group [B60Q 1/24](#).

Groups [B60Q 1/24](#) and [B60Q 1/247](#) should be considered in order to perform a complete search.

- 1/249 . . . {for illuminating the field of view of a sensor or camera}

WARNING

Group [B60Q 1/249](#) is incomplete pending reclassification of documents from group [B60Q 1/24](#).

Groups [B60Q 1/24](#) and [B60Q 1/249](#) should be considered in order to perform a complete search.

- 1/26 . . the devices being primarily intended to indicate the vehicle, or parts thereof, or to give signals, to other traffic
- 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}
- 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}
- 1/2661 . . {mounted on parts having other functions (on wheels [B60Q 1/326](#))}
- 1/2665 . . . {on rear-view mirrors (lighting devices for vehicle interior on or for rear-view mirrors [B60Q 3/258](#))}
- 1/2669 . . . {on door or boot handles (lighting devices for vehicle interior on door handles [B60Q 3/267](#))}
- 1/2673 . . . {on parts worn by the driver, e.g. clothes, gloves or bags, specially adapted to provide auxiliary vehicle signalling}
- 1/2676 {Helmets}
- 1/268 . . . {on windcreens or windows ([B60Q 1/302](#) takes precedence; lighting devices for vehicle interior on or for windows [B60Q 3/208](#))}
- 1/2684 . . . {on wipers or windscreen washers}
- 1/2688 . . . {on exhaust pipes}
- 1/2692 . . {retractable lights (retractable headlights [B60Q 1/05](#))}
- 1/2696 . . {Mounting of devices using LEDs}
- 1/28 . . for indicating front of vehicle

- 1/30 . . for indicating rear of vehicle, e.g. by means of reflecting surfaces

WARNING

Group [B60Q 1/30](#) is impacted by reclassification into groups [B60Q 1/301](#), [B60Q 1/3015](#), [B60Q 1/303](#) and [B60Q 1/304](#).

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

- 1/301 . . . {by means of surfaces, e.g. metal plate, reflecting the light of an external light source}

WARNING

Groups [B60Q 1/301](#) and [B60Q 1/3015](#) are incomplete pending reclassification of documents from group [B60Q 1/30](#).

Groups [B60Q 1/30](#), [B60Q 1/301](#) and [B60Q 1/3015](#) should be considered in order to perform a complete search.

- 1/3015 {combined with a lamp}
- 1/302 . . . {mounted in the vicinity, e.g. in the middle, of a rear window}
- 1/303 . . . {Rear fog lamps}

WARNING

Group [B60Q 1/303](#) is incomplete pending reclassification of documents from group [B60Q 1/30](#).

Groups [B60Q 1/30](#) and [B60Q 1/303](#) should be considered in order to perform a complete search.

- 1/304 . . . {Adaptations of signalling devices having a part on the vehicle body and another on the boot door}

WARNING

Group [B60Q 1/304](#) is incomplete pending reclassification of documents from group [B60Q 1/30](#).

Groups [B60Q 1/30](#) and [B60Q 1/304](#) should be considered in order to perform a complete search.

- 1/305 . . . {Indicating devices for towed vehicles}
- 1/307 . . . {mounted on loading platforms}
- 1/32 . . for indicating vehicle sides {, e.g. clearance lights}
- 1/323 . . . {on or for doors (illuminated exterior door handles [B60Q 1/2669](#); illuminated door locks [E05B 17/10](#))}

WARNING

Group [B60Q 1/323](#) is impacted by reclassification into groups [B60Q 1/324](#) and [B60Q 1/325](#).

Groups [B60Q 1/323](#), [B60Q 1/324](#) and [B60Q 1/325](#) should be considered in order to perform a complete search.

- 1/324 {for signalling that a door is open or intended to be opened}
- WARNING**
- Group [B60Q 1/324](#) is incomplete pending reclassification of documents from group [B60Q 1/323](#).
- Groups [B60Q 1/323](#) and [B60Q 1/324](#) should be considered in order to perform a complete search.
- 1/325 {on or for running boards or steps}
- WARNING**
- Group [B60Q 1/325](#) is incomplete pending reclassification of documents from group [B60Q 1/323](#).
- Groups [B60Q 1/323](#) and [B60Q 1/325](#) should be considered in order to perform a complete search.
- 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
- WARNING**
- Group [B60Q 1/38](#) is impacted by reclassification into group [B60Q 1/381](#).
- Groups [B60Q 1/38](#) and [B60Q 1/381](#) should be considered in order to perform a complete search.
- 1/381 {with several light sources activated in sequence, e.g. to create a sweep effect}
- WARNING**
- Group [B60Q 1/381](#) is incomplete pending reclassification of documents from group [B60Q 1/38](#).
- Groups [B60Q 1/38](#) and [B60Q 1/381](#) should be considered in order to perform a complete search.
- 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}
- 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}
- 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 {or hazard lights}
- 1/48 . . for parking purposes
- 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

WARNING

Group [B60Q 1/50](#) is impacted by reclassification into groups [B60Q 1/503](#), [B60Q 1/5035](#), [B60Q 1/5037](#), [B60Q 1/507](#), [B60Q 1/508](#), [B60Q 1/509](#), [B60Q 1/543](#), [B60Q 1/544](#), [B60Q 1/545](#), [B60Q 1/547](#) and [B60Q 1/549](#).

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

- 1/503 {using luminous text or symbol displays in or on the vehicle, e.g. static text}

WARNING

Group [B60Q 1/503](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Group [B60Q 1/503](#) is also impacted by reclassification into groups [B60Q 1/5035](#) and [B60Q 1/5037](#).

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

- 1/5035 {electronic displays}

WARNING

Groups [B60Q 1/5035](#) and [B60Q 1/5037](#) are incomplete pending reclassification of documents from groups [B60Q 1/50](#) and [B60Q 1/503](#).

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

- 1/5037 {the display content changing automatically, e.g. depending on traffic situation}
- 1/506 {specific to silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching}

1/507 . . . {specific to autonomous vehicles}

WARNING

Group [B60Q 1/507](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/507](#) should be considered in order to perform a complete search.

1/508 . . . {specific to vehicles driving in fleets or convoys}

WARNING

Group [B60Q 1/508](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/508](#) should be considered in order to perform a complete search.

1/509 . . . {specific to unauthorised use, e.g. for indicating stolen vehicles or infringements of traffic rules}

WARNING

Group [B60Q 1/509](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/509](#) should be considered in order to perform a complete search.

1/52 . . . for indicating emergencies

1/525 . . . {automatically indicating risk of collision between vehicles in traffic or with pedestrians, e.g. after risk assessment using the vehicle sensor data}

WARNING

Group [B60Q 1/525](#) is impacted by reclassification into group [B60Q 1/535](#).

Groups [B60Q 1/525](#) and [B60Q 1/535](#) should be considered in order to perform a complete search.

1/535 {to prevent rear-end collisions, e.g. by indicating safety distance at the rear of the vehicle}

WARNING

Group [B60Q 1/535](#) is incomplete pending reclassification of documents from group [B60Q 1/525](#).

Groups [B60Q 1/525](#) and [B60Q 1/535](#) should be considered in order to perform a complete search.

1/54 . . . for indicating speed {outside of the vehicle}

1/543 . . . {for indicating other states or conditions of the vehicle (indicating taxis' state of hire or fare [G07B 13/045](#))}

WARNING

Group [B60Q 1/543](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/543](#) should be considered in order to perform a complete search.

1/544 . . . {for indicating other states or conditions of the vehicle occupants, e.g. for indicating disabled occupants}

WARNING

Group [B60Q 1/544](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/544](#) should be considered in order to perform a complete search.

1/545 . . . {for indicating other traffic conditions, e.g. fog, heavy traffic}

WARNING

Group [B60Q 1/545](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/545](#) should be considered in order to perform a complete search.

1/547 . . . {for issuing requests to other traffic participants; for confirming to other traffic participants they can proceed, e.g. they can overtake}

WARNING

Group [B60Q 1/547](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/547](#) should be considered in order to perform a complete search.

1/549 . . . {for expressing greetings, gratitude or emotions}

WARNING

Group [B60Q 1/549](#) is incomplete pending reclassification of documents from group [B60Q 1/50](#).

Groups [B60Q 1/50](#) and [B60Q 1/549](#) should be considered in order to perform a complete search.

1/56 . . for illuminating registrations or the like {, e.g. for licence plates}

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

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](#))
- 3/208 . . Sun roofs; Windows
- 3/217 . . Doors, e.g. door sills; Steps
- 3/225 . . Small compartments, e.g. glove compartments

WARNING

Group [B60Q 3/225](#) is impacted by reclassification into group [B60Q 3/229](#).

Groups [B60Q 3/225](#) and [B60Q 3/229](#) should be considered in order to perform a complete search.

- 3/229 . . . {Cup holders}

WARNING

Group [B60Q 3/229](#) is incomplete pending reclassification of documents from group [B60Q 3/225](#).

Groups [B60Q 3/225](#) and [B60Q 3/229](#) should be considered in order to perform a complete search.

- 3/233 . . Seats; Arm rests; Head rests
- 3/242 . . Safety belts; Body harnesses
- 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
- 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
- 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](#))
- 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
- 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

- 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 impacted by reclassification into groups [B60Q 3/731](#) and [B60Q 3/735](#).

Groups [B60Q 3/70](#), [B60Q 3/731](#) and [B60Q 3/735](#) should be considered in order to perform a complete search.

- 3/72 . . for preventing the driver from being dazzled
- 3/731 . . {for autonomous vehicle travel}

WARNING

Groups [B60Q 3/731](#) and [B60Q 3/735](#) are incomplete pending reclassification of documents from group [B60Q 3/70](#).

Groups [B60Q 3/70](#), [B60Q 3/731](#) and [B60Q 3/735](#) should be considered in order to perform a complete search.

- 3/735 . . . {for preventing discomfort, e.g. for preventing motion sickness or for anticipating motion}
- 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 Arrangement or adaptation of acoustic signal devices

- 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}
- 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	Arrangement or adaptation of signal devices not provided for in one of main groups B60Q 1/00 - B60Q 7/00 {, e.g. haptic signalling}	2300/124	. . . Steering speed
		2300/126	. . . Hysteresis behavior based on steering
		2300/128	. . . Steering dead zone
9/001	. {Alarm devices when the motor is stopped and the lights are on}	2300/13	. . Attitude of the vehicle body
		2300/132	. . . Pitch
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)}	2300/134	. . . Yaw
		2300/136	. . . Roll
		2300/14	. . Other vehicle conditions
9/003	. . {using physical contactors, e.g. arms that trigger alarm upon contact with obstacle}	2300/142	. . . Turn signal actuation
		2300/144	. . . Rearward ratio actuation
9/004	. . {using wave sensors (radar designed for anti-collision purposes between land vehicles or between land vehicles and fixed obstacles G01S 13/931)}	2300/146	. . . Abnormalities, e.g. fail-safe
		2300/20	. Indexing codes relating to the driver or the passengers
		2300/21	. . Manual control
9/005	. . . {using a video camera}	2300/22	. . Seat occupation
9/006	. . . {using a distance sensor}	2300/23	. . Driver's line of sight
9/007	. . {providing information about the distance to an obstacle, e.g. varying sound}	2300/30	. Indexing codes relating to the vehicle environment
		2300/305	. . Calendar date or clock time
9/008	. {for anti-collision purposes}	2300/31	. . Atmospheric conditions
		2300/312	. . . Adverse weather
11/00	Arrangement of monitoring devices for devices provided for in groups B60Q 1/00 - B60Q 9/00	2300/314	. . . Ambient light
11/002	. {Emergency driving lights in the event of failure of the principal lighting circuit}	2300/32	. . Road surface or travel path
		2300/322	. . . Road curvature
11/005	. {for lighting devices, e.g. indicating if lamps are burning or not}	2300/324	. . . Road inclination, e.g. uphill or downhill
		2300/33	. . Driving situation
11/007	. . {the lighting devices indicating change of drive direction}	2300/331	. . . characterised by the driving side, e.g. on the left or right hand side
		2300/332	. . . on city roads
2200/00	Special features or arrangements of vehicle headlamps	2300/3321 Detection of streetlights
2200/30	. Special arrangements for adjusting headlamps, e.g. means for transmitting the movements for adjusting the lamps	2300/333	. . . on suburban or country roads
		2300/334	. . . on motorways
2200/32	. . Ball-joints	2300/335	. . . Number or size of road lanes
2200/34	. . Deformable parts, i.e. the adjustment is performed by bending or stretching a part	2300/336	. . . Crossings
		2300/337	. . . Tunnels or bridges
2200/36	. . Conjoint adjustments, i.e. a mechanical link allows conjoint adjustment of several units	2300/338	. . . Overtaking
2200/38	. . Automatic calibration of motor-driven means for adjusting headlamps, i.e. when switching on the headlamps, not during mounting at factories	2300/40	. Indexing codes relating to other road users or special conditions
		2300/41	. . preceding vehicle
2300/00	Indexing codes for automatically adjustable headlamps or automatically dimmable headlamps	2300/42	. . oncoming vehicle
2300/05	. Special features for controlling or switching of the light beam	2300/43	. . following vehicle
		2300/45	. . Special conditions, e.g. pedestrians, road signs or potential dangers
2300/052	. . Switching delay, i.e. the beam is not switched or changed instantaneously upon occurrence of a condition change	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
		2400/00	Special features or arrangements of exterior signal lamps for vehicles
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		WARNING
			Group B60Q 2400/00 is impacted by reclassification into groups B60Q 2400/10 and B60Q 2400/50 .
2300/056	. . Special anti-blinding beams, e.g. a standard beam is chopped or moved in order not to blind		Groups B60Q 2400/00 , B60Q 2400/10 and B60Q 2400/50 should be considered in order to perform a complete search.
2300/10	. Indexing codes relating to particular vehicle conditions		
2300/11	. . Linear movements of the vehicle		
2300/112	. . . Vehicle speed		
2300/114	. . . Vehicle acceleration or deceleration		
2300/116	. . . Vehicle at a stop		
2300/12	. . Steering parameters		
2300/122	. . . Steering angle		

B60Q

- 2400/10 . Electro- or photo- luminescent surfaces, e.g. signalling by way of electroluminescent strips or panels

WARNING

Group [B60Q 2400/10](#) is incomplete pending reclassification of documents from group [B60Q 2400/00](#).

Groups [B60Q 2400/00](#) and [B60Q 2400/10](#) should be considered in order to perform a complete search.

- 2400/20 . Multi-color single source or LED matrix, e.g. yellow blinker and red brake lamp generated by single lamp

- 2400/30 . Daytime running lights [DRL], e.g. circuits or arrangements therefor

- 2400/40 . Welcome lights, i.e. specific or existing exterior lamps to assist leaving or approaching the vehicle

- 2400/50 . Projected symbol or information, e.g. onto the road or car body

WARNING

Group [B60Q 2400/50](#) is incomplete pending reclassification of documents from group [B60Q 2400/00](#).

Groups [B60Q 2400/00](#) and [B60Q 2400/50](#) should be considered in order to perform a complete search.

2500/00 Special features or arrangements of vehicle interior lamps

WARNING

Group [B60Q 2500/00](#) is impacted by reclassification into group [B60Q 2500/30](#).

Groups [B60Q 2500/00](#) and [B60Q 2500/30](#) should be considered in order to perform a complete search.

- 2500/20 . associated with air conditioning arrangements

- 2500/30 . Arrangements for illuminating different zones in the vehicle, e.g. front/rear, different seats

WARNING

Group [B60Q 2500/30](#) is incomplete pending reclassification of documents from group [B60Q 2500/00](#).

Groups [B60Q 2500/00](#) and [B60Q 2500/30](#) should be considered in order to perform a complete search.

2800/00 Features related to particular types of vehicles not otherwise provided for

- 2800/10 . Autonomous vehicles

- 2800/20 . Utility vehicles, e.g. for agriculture, construction work

- 2800/30 . Mass transport vehicles

2900/00 Features of lamps not covered by other groups in B60Q

WARNING

Group [B60Q 2900/00](#) is impacted by reclassification into groups [B60Q 2900/40](#) and [B60Q 2900/50](#).

Groups [B60Q 2900/00](#), [B60Q 2900/40](#) and [B60Q 2900/50](#) should be considered in order to perform a complete search.

- 2900/10 . Retrofit arrangements

- 2900/20 . Arrangements for easy recycling, e.g. for easy dismantling or use of special materials

- 2900/30 . Lamps commanded by wireless transmissions

- 2900/40 . Several lamps activated in sequence, e.g. sweep effect, progressive activation

WARNING

Group [B60Q 2900/40](#) is incomplete pending reclassification of documents from group [B60Q 2900/00](#).

Groups [B60Q 2900/00](#) and [B60Q 2900/40](#) should be considered in order to perform a complete search.

- 2900/50 . Arrangements to reconfigure features of lighting or signalling devices, or to choose from a list of pre-defined settings

WARNING

Group [B60Q 2900/50](#) is incomplete pending reclassification of documents from group [B60Q 2900/00](#).

Groups [B60Q 2900/00](#) and [B60Q 2900/50](#) should be considered in order to perform a complete search.