

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B60 VEHICLES IN GENERAL

(NOTE omitted)

B60K ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES

NOTES

1. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "auxiliary drives" means drives of auxiliary or external machines or devices from the propulsion unit, transmission, or other parts of the vehicle, and includes the control of such drives;
 - "transmission" means all propulsion parts linking propulsion units, e.g. engines, to ultimate propulsive elements, e.g. wheels.
2. Attention is drawn to the Note following the title of class [B60](#)

Arrangement or mounting of propulsion units in vehicles

1/00	Arrangement or mounting of electrical propulsion units (B60K 7/00 takes precedence; arrangement or mounting of plural diverse prime-movers for mutual or common propulsion B60K 6/00)
2001/001	• {one motor mounted on a propulsion axle for rotating right and left wheels of this axle}
2001/003	• {with means for cooling the electrical propulsion units}
2001/005	• . {the electric storage means}
2001/006	• . {the electric motors}
2001/008	• {with means for heating the electrical propulsion units}
1/02	• comprising more than one electric motor
1/04	• of the electric storage means for propulsion
2001/0405	• . {characterised by their position}
2001/0411	• . . {Arrangement in the front part of the vehicle}
2001/0416	• . . {Arrangement in the rear part of the vehicle}
2001/0422	• . . {Arrangement under the front seats}
2001/0427	• . . {Arrangement between the seats}
2001/0433	• . . {Arrangement under the rear seats}
2001/0438	• . . {Arrangement under the floor}
2001/0444	• . . {Arrangement on a trailer}
2001/045	• . . {Arrangement in a wheel, e.g. a spare wheel}
2001/0455	• . {Removal or replacement of the energy storages}
2001/0461	• . . {from the side}
2001/0466	• . . {from above}
2001/0472	• . . {from below}
2001/0477	• . . {from the back}
2001/0483	• . . {from the front}
2001/0488	• . . {with arrangements for pivoting}
2001/0494	• . . {with arrangements for sliding}

3/00

Arrangement or mounting of steam or gaseous-pressure propulsion units ([B60K 7/00](#) takes precedence; arrangement or mounting of plural diverse prime-movers for mutual or common propulsion [B60K 6/00](#))

- 3/02 • of piston type
- 3/04 • of turbine type

5/00

Arrangement or mounting of internal-combustion or jet-propulsion units ([B60K 7/00](#) takes precedence; arrangement or mounting of plural diverse prime-movers for mutual or common propulsion [B60K 6/00](#))

2005/003	• {the internal combustion or jet propulsion unit is arranged between the front and the rear axle}
2005/006	• {the internal combustion or jet propulsion unit is arranged behind the rear axle}
5/02	• with the engine main axis, e.g. crankshaft axis, substantially in or parallel to the longitudinal centre line of the vehicle
5/04	• with the engine main axis, e.g. crankshaft axis, transversely to the longitudinal centre line of the vehicle
5/06	• . with the engine main axis substantially vertical
5/08	• comprising more than one engine
5/10	• providing for ready detachment of engine
5/12	• Arrangement of engine supports
5/1208	• . {Resilient supports (B60K 5/1241 - B60K 5/1291 take precedence)}
5/1216	• . . {characterised by the location of the supports relative to the motor or to each other (B60K 5/1225 takes precedence)}
5/1225	• . . {comprising resilient rings surrounding a part of the unit}

5/1233	. . . {comprising protective elements, e.g. for protecting against heat, dust}	6/26	. . . characterised by the motors or the generators
5/1241	. . {Link-type support (B60K 5/125, B60K 5/1275 take precedence)}	2006/262	. . . . {the motor or generator are used as clutch, e.g. between engine and driveshaft}
5/125	. . {Telescopic supports, e.g. telescopic dampers (B60K 5/1275 takes precedence)}	2006/264	. . . . {with outer rotor and inner stator}
5/1258	. . {Wire-type supports (B60K 5/1275 takes precedence)}	2006/266	. . . . {with two coaxial motors or generators}
5/1266	. . {Supports comprising friction damping devices (B60K 5/125, B60K 5/1283 take precedence)}	2006/268	. . . . {Electric drive motor starts the engine, i.e. used as starter motor}
5/1275	. . {Plastically deformable supports}	6/28	. . . characterised by the electric energy storing means, e.g. batteries or capacitors
5/1283	. . {Adjustable supports, e.g. the mounting or the characteristics being adjustable}	6/30	. . . characterised by chargeable mechanical accumulators, e.g. flywheels
5/1291	. . {Supports comprising stoppers}	6/32	. . . characterised by the fuel cells
6/00	Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion, e.g. hybrid propulsion systems comprising electric motors and internal combustion engines	6/34	. . . characterised by the absence of energy storing means
NOTE		6/36	. . . characterised by the transmission gearings
In this subgroup, the following expressions are used, with the meanings indicated:		6/365	. . . . with the gears having orbital motion
<ul style="list-style-type: none"> "prime-mover" means a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft; "hybrid electric vehicle" [HEV] means a vehicle having an electric prime-mover and a combustion engine, in which the electrical prime-mover and the combustion engine either singly or in combination, drive the ultimate propulsive elements, e.g. wheels; "energy storing means" means apparatus for storing propulsive energy and providing stored energy to drive the prime mover or the ultimate propulsive elements, e.g. wheels; "motor-generator" means an electric machine, such as a motor or a generator, or a mechanical combination thereof, which can provide positive mechanical output force or torque and which can function at other times as an electric generator. 		6/38	. . . characterised by the driveline clutches (shift clutches within the gearing or transmission B60K 6/36)
6/08	. Prime-movers comprising combustion engines and mechanical or fluid energy storing means	2006/381	. . . . {characterized by driveline brakes}
6/10	. . by means of a chargeable mechanical accumulator, e.g. flywheel	6/383	. . . . One-way clutches or freewheel devices
6/105	. . . {the accumulator being a flywheel}	6/387	. . . . Actuated clutches, i.e. clutches engaged or disengaged by electric, hydraulic or mechanical actuating means
6/12	. . by means of a chargeable fluidic accumulator	6/40	. . . characterised by the assembly or relative disposition of components
2006/123	. . . {for driving pneumatic motors}	6/405	. . . . Housings
2006/126	. . . {the hydraulic accumulator starts the engine}	6/42	. . characterised by the architecture of the hybrid electric vehicle
6/20	. the prime-movers consisting of electric motors and internal combustion engines, e.g. HEVs	6/44	. . . Series-parallel type
NOTE		6/442	. . . . Series-parallel switching type
When classifying in one of groups B60K 6/22, B60K 6/42 or B60K 6/50, further technical information, which is considered to represent information of interest for search, should also be classified in the other subgroups of main group B60K 6/00 to enable searching using a combination of classification symbols		6/445	. . . . Differential gearing distribution type
6/22	. . characterised by apparatus, components or means specially adapted for HEVs	6/448	. . . . Electrical distribution type
6/24	. . . characterised by the combustion engines	6/46	. . . Series type
		6/48	. . . Parallel type
		2006/4808	. . . . {Electric machine connected or connectable to gearbox output shaft}
		2006/4816	. . . . {Electric machine connected or connectable to gearbox internal shaft}
		2006/4825	. . . . {Electric machine connected or connectable to gearbox input shaft}
		2006/4833	. . . . {Step up or reduction gearing driving generator, e.g. to operate generator in most efficient speed range}
		2006/4841	. . . . . {the gear provides shifting between multiple ratios}
		6/485	. . . . Motor-assist type
		6/50	. . Architecture of the driveline characterised by arrangement or kind of transmission units
		6/52	. . . Driving a plurality of drive axles, e.g. four-wheel drive
		6/54	. . . Transmission for changing ratio
		2006/541	. . . . {without reverse ratio using instead electric reversing}
		2006/542	. . . . {with overdrive ratio}
		6/543	. . . . the transmission being a continuously variable transmission
		6/547	. . . . the transmission being a stepped gearing
		7/00	Disposition of motor in, or adjacent to, traction wheel
		7/0007	. {the motor being electric}
		7/0015	. {the motor being hydraulic}
		7/0023	. {the motor being pneumatic}

2007/003	. {with two or more motors driving a single wheel}	2015/03098	. . {with a device for mixing liquids in the fuel tank, e.g. for mixing oil and fuel}
2007/0038	. {the motor moving together with the wheel axle}	2015/03105	. . {with supplementary interior tanks inside the fuel tank}
2007/0046	. {the motor moving together with the vehicle body, i.e. moving independently from the wheel axle}	2015/03111	. . {Swirl pots}
2007/0053	. {the motor moving relative to the vehicle body and to the wheel axle}	2015/03118	. . {Multiple tanks, i.e. two or more separate tanks}
2007/0061	. {the motor axle being parallel to the wheel axle}	2015/03125	. . . {Suction lines for dual tanks}
2007/0069	. {the motor axle being perpendicular to the wheel axle}	2015/03131	. . . {Systems for filling dual tanks}
2007/0076	. . {the motor axle being horizontal}	2015/03138	. . . {Pumping means between the compartments}
2007/0084	. . {the motor axle being vertical}	2015/03144	. . . {Fluid connections between the tanks}
2007/0092	. {the motor axle being coaxial to the wheel axle}	2015/03151	. . . {Mechanical connection between the tanks}
8/00	Arrangement or mounting of propulsion units not provided for in one of main groups B60K 1/00 - B60K 7/00	2015/03157	. . . {for supply different types of fuel to the motor}
		2015/03164	. . {Modular concepts for fuel tanks}
		2015/03171	. . {Expansion tanks}
		15/03177	. . {made of non-metallic material, e.g. plastics, or of a combination of non-metallic and metallic material (B60K 15/03006 takes precedence)}

Arrangements in connection with cooling, air intake, gas exhaust, fuel supply, or power supply of propulsion units in vehicles

11/00	Arrangement in connection with cooling of propulsion units	2015/03184	. . {Exchangeable tanks, i.e. the empty tank is replaced by refilled tank}
11/02	. with liquid cooling	2015/0319	. . {with electronic systems, e.g. for controlling fuelling or venting}
11/04	. . Arrangement or mounting of radiators, radiator shutters, or radiator blinds	2015/03197	. . . {Systems for exchanging data}
11/06	. with air cooling	2015/03203	. . . . {during refuelling}
11/08	. Air inlets for cooling; Shutters or blinds therefor	2015/0321	. . {characterised by special sensors, the mounting thereof}
11/085	. . {with adjustable shutters or blinds}	2015/03217	. . . {Fuel level sensors}
13/00	Arrangement in connection with combustion air intake or gas exhaust of propulsion units	2015/03223	. . . . {comprising at least two level fuel sensors}
13/02	. concerning intake	2015/0323	. . . {Sensors for detecting presence or absence of the filling nozzle}
13/04	. concerning exhaust	2015/03236	. . {characterised by special filters, the mounting thereof}
13/06	. using structural parts of the vehicle as ducts, e.g. frame parts	2015/03243	. . {characterised by special pumps, the mounting thereof}
15/00	Arrangement in connection with fuel supply of combustion engines {or other fuel consuming energy converters, e.g. fuel cells}; Mounting or construction of fuel tanks	2015/0325	. . . {Jet pumps}
15/01	. Arrangement of fuel conduits	2015/03256	. . {characterised by special valves, the mounting thereof}
15/013	. . {of gas conduits}	2015/03263	. . . {Ball valves}
2015/016	. . {Fuel conduits having more than one internal passage, e.g. for different types of fuel}	2015/03269	. . . {Flap valves}
15/03	. Fuel tanks	2015/03276	. . . {Valves with membranes}
15/03006	. . {Gas tanks (B60K 15/07 takes precedence)}	2015/03282	. . . {Umbrella type valves}
2015/03013	. . . {Control systems for LPG tanks}	2015/03289	. . . {Float valves; Floats therefor}
2015/03019	. . . {Filling of gas tanks}	2015/03296	. . . {Pressure regulating valves}
2015/03026	. . . {comprising a valve}	2015/03302	. . . {Electromagnetic valves}
2015/03032	. . {Manufacturing of fuel tanks}	2015/03309	. . {Tanks specially adapted for particular fuels}
2015/03039	. . . {made of a combination of non metallic and metallic materials}	2015/03315	. . . {for hydrogen}
2015/03046	. . . {made from more than one layer}	2015/03322	. . . {for methanol}
2015/03052	. . . {Fuel tanks made of two balloons, one inside the other}	2015/03328	. . {Arrangements or special measures related to fuel tanks or fuel handling}
2015/03059	. . . {Fuel tanks with double shells or more}	2015/03335	. . . {for fast filling of fuel tanks, e.g. specific filler pipes for pressurised fuelling}
2015/03065	. . . . {with material filled between the walls}	2015/03342	. . . {to allow automatic or robotised filling of the tank}
2015/03072	. . {Arrangements for reducing evaporation}	2015/03348	. . . {for supplying additives to fuel}
2015/03078	. . . {Membranes, layers or the like covering the surface of the fuel}	2015/03355	. . . {for supplying different types of fuel}
2015/03085	. . . . {using inflatable bags or bladders in the tanks}	2015/03361	. . . {for checking the quality or quantity of fuel during filling of fuel tank}
2015/03092	. . {with latent heat storages to reduce the evaporation of fuel}	2015/03368	. . . {for preventing overfilling of tanks}
		2015/03375	. . . {to improve security}
		2015/03381	. . . {for preventing explosions}
		2015/03388	. . . {in case of a roll over of the vehicle}
		2015/03394	. . . {for preventing expulsion of fuel during filling of the tank}
		2015/03401	. . . {for preventing electrostatic charges}

2015/03407	. . . {to protect tanks against projectiles}	2015/0438	. . . . . {using screw or bayonet}
2015/03414	. . . {associated with the fuel tank for cooling heated fuel}	2015/0441	. . . . . {with torque control}
2015/03421	. . . {to protect the fuel tank against heat}	2015/0445	. . . . . {using hinges}
2015/03427	. . . {for heating fuel, e.g. to avoiding freezing}	2015/0448	. . . . {comprising spherical valve type closures}
2015/03434	. . . {for preventing theft of fuel}	2015/0451	. . . . {Sealing means in the closure cap}
2015/0344	. . . {comprising baffles}	2015/0454	. . . . {combined closing of the fuel inlet and bodywork inlet by one element which is visible from outside}
2015/03447	. . . {for improving the sealing}	2015/0458	. . . {Details of the tank inlet}
2015/03453	. . . {for fixing or mounting parts of the fuel tank together}	2015/0461	. . . . {comprising a filler pipe shutter, e.g. trap, door or flap for fuel inlet}
2015/0346	. . . . {by welding}	2015/0464	. . . . {comprising a flexible or extendable filler pipes, e.g. corrugated, foldable or with bellows}
2015/03467	. . . . {by clip or snap fit fittings}	2015/0467	. . . . {Fuel tanks with more than one filler pipe}
2015/03473	. . . {for draining or emptying a fuel tank}	2015/047	. . . . {Manufacturing of the fuel inlet or connecting elements to fuel inlet, e.g. pipes or venting tubes}
2015/0348	. . . {for returning the fuel from the motor}	2015/0474	. . . . {Arrangement of fuel filler pipes in relation to vehicle body}
2015/03486	. . {characterised by the materials the tank or parts thereof are essentially made from}	2015/0477	. . . . {Details of the filler neck tank side}
2015/03493	. . . {made of plastics}	2015/048	. . . . {Arrangements for sealing the fuel inlet during filling}
15/035	. . characterised by venting means	2015/0483	. . . . {Means to inhibit the introduction of too small or too big filler nozzles}
15/03504	. . . {adapted to avoid loss of fuel or fuel vapour, e.g. with vapour recovery systems}	2015/0487	. . . . {Means to shield vehicle bodywork from fuel, e.g. during filling}
2015/03509	. . . . {with a droplet separator in the vent line}	2015/049	. . . . {Means for determining the position of the filler nozzle in the filler pipe}
2015/03514	. . . . {with vapor recovery means}	2015/0493	. . . . {Means for checking absence or presence of closure cap}
15/03519	. . . {Valve arrangements in the vent line}	2015/0496	. . . . {the fuel inlet being arranged on the top of the fuel tank}
2015/03523	. . . {Arrangements of the venting tube}	15/05	. . . Inlet covers
2015/03528	. . . . {Mounting of venting tubes}	2015/0507	. . . . {Arrangements for adjusting the inlet cover}
2015/03533	. . . . {the venting tube being movable with the fuel level}	2015/0515	. . . . {Arrangements for closing or opening of inlet cover}
2015/03538	. . . . {the venting tube being connected with the filler tube}	2015/0523	. . . . . {with sliding connection to the vehicle body}
2015/03542	. . . {Mounting of the venting means}	2015/053	. . . . . {with hinged connection to the vehicle body}
2015/03547	. . . . {the venting means are integrated in the fuel cap or inlet cover}	2015/0538	. . . . . {with open or close mechanism automatically actuated}
2015/03552	. . . . {the venting means are integrated into the fuel filler pipe}	2015/0546	. . . . {Arrangements for checking the position of the inlet cover}
2015/03557	. . . . {comprising elements of the venting device integrated in the fuel tank, e.g. vapor recovery means}	2015/0553	. . . . {Details concerning the inlet box or bowl in the vehicle car body panel}
2015/03561	. . . {Venting means working at specific times}	2015/0561	. . . . {Locking means for the inlet cover}
2015/03566	. . . . {comprising means for stopping the venting of fuel vapor, e.g. during refuelling or engine stop}	2015/0569	. . . . . {with actuator fixed to the inlet cover}
2015/03571	. . . . {Venting during driving}	2015/0576	. . . . . {with actuator fixed to the vehicle body}
2015/03576	. . . . {Venting during filling the reservoir}	2015/0584	. . . . . {the locking bolt is linearly moved to lock or unlock}
2015/0358	. . . {the venting is actuated by specific signals or positions of particular parts}	2015/0592	. . . . {with storage means for the cap}
2015/03585	. . . . {by gas pressure}	15/06	. . characterised by fuel reserve systems
2015/0359	. . . . {by filler cap or inlet cover position}	15/061	. . . {with level control}
2015/03595	. . . . {by filler nozzle}	2015/062	. . . . {Arrangement for filling the fuel reserve systems}
15/04	. . Tank inlets (B60K 15/077 takes precedence)	15/063	. . Arrangement of tanks
15/0403	. . . {Anti-siphoning devices}	2015/0631	. . . {the fuel tank forming at least part of the vehicle floor}
15/0406	. . . {Filler caps for fuel tanks}	2015/0632	. . . {the fuel tank is arranged below the front seat}
15/0409	. . . . {Provided with a lock}	2015/0633	. . . {the fuel tank is arranged below the rear seat}
2015/0412	. . . . {the key can only be withdrawn when the cap is placed on the filler neck}		
2015/0416	. . . . {electrically actuated}		
2015/0419	. . . . {Self-sealing closure caps, e.g. that don't have to be removed manually}		
2015/0422	. . . . . {actuated by the inlet cover}		
2015/0425	. . . . . {actuated by a motor}		
2015/0429	. . . . . {actuated by the nozzle}		
2015/0432	. . . . {having a specific connection between the cap and the vehicle or tank opening}		
2015/0435	. . . . . {using a sliding connection}		

- 2015/0634 . . . {the fuel tank is arranged below the vehicle floor}
- 2015/0635 . . . {the fuel tank is arranged between the seats}
- 2015/0636 . . . {the fuel tank being part of the chassis or frame}
- 2015/0637 . . . {the fuel tank is arranged in the front of the vehicle}
- 2015/0638 . . . {the fuel tank is arranged in the rear of the vehicle}
- 2015/0639 . . . {the fuel tank is arranged near or in the roof}
- 15/067 . . . Mounting of tanks
- 2015/0675 {allowing deflection movements of the tank in case of a crash}
- 15/07 of gas tanks
- 15/073 . . Tank construction specially adapted to the vehicle ([B60K 15/077](#) takes precedence)
- 15/077 . . with means modifying or controlling distribution or motion of fuel, e.g. to prevent noise, surge, splash or fuel starvation
- 2015/0772 . . . {Floats in the fuel tank}
- 2015/0775 . . . {for reducing movement or slash noise of fuel}
- 2015/0777 . . . {in-tank reservoirs or baffles integrally manufactured with the fuel Tank}
- 15/10 . . concerning gas-producing plants

16/00 Arrangements in connection with power supply of propulsion units in vehicles from forces of nature, e.g. sun or wind (electric propulsion with power supply from forces of nature, e.g. sun or wind, [B60L 8/00](#); wind motors specially adapted for installation on vehicles [F03D 9/32](#))

NOTE

When classifying in this group, details of sail or rigging arrangements which are suited for marine wind propulsion are also classified in the relevant groups of subclass [B63H](#), e.g. in groups [B63H 8/00](#), [B63H 9/04](#).

- 2016/003 . . {solar power driven}
- 2016/006 . . {wind power driven}

Arrangement or mounting of transmissions or their control in vehicles

- 17/00 Arrangement or mounting of transmissions in vehicles**
- 17/02 . . characterised by arrangement, location, or kind of clutch
- 17/04 . . characterised by arrangement, location or kind of gearing
- 17/043 . . {Transmission unit disposed in on near the vehicle wheel, or between the differential gear unit and the wheel}
- 17/046 . . . {with planetary gearing having orbital motion}
- 17/06 . . of change-speed gearing ([B60K 17/10](#) - [B60K 17/16](#) take precedence)
- 17/08 . . . of mechanical type
- 17/10 . . of fluid gearing
- 17/105 . . . {Units comprising at least a part of the gearing and a torque-transmitting axle, e.g. transaxles ([B60K 17/14](#) takes precedence)}
- 17/12 . . of electric gearing
- 17/14 . . the motor of fluid or electric gearing being disposed in, or adjacent to, traction wheel

- 17/145 . . . {the electric gearing being disposed in or adjacent to traction wheel}
- 17/16 . . of differential gearing
- 17/165 . . . {provided between independent half axles ([B60K 17/18](#), [B60K 17/20](#) take precedence)}
- 17/18 . . . {in which the differential movement is obtained by resilient means}
- 17/20 . . . {in which the differential movement is limited}
- 17/22 . . characterised by arrangement, location, or type of main drive shafting, e.g. cardan shaft
- 17/24 . . Arrangement of mountings for shafting
- 17/26 . . characterised by arrangement, location, or type of freewheel device
- 17/28 . . characterised by arrangement, location, or type of power take-off
- 17/30 . . the ultimate propulsive elements, e.g. ground wheels, being steerable
- 17/303 . . {with a gearwheel on the steering knuckle or kingpin axis}
- 17/306 . . {with a universal joint in the axis of the steering knuckle}
- 17/32 . . the ultimate propulsive elements, e.g. ground wheels, being rockable about a horizontal pivot
- 17/34 . . for driving both front and rear wheels, e.g. four wheel drive vehicles
- 17/342 . . having a longitudinal, endless element, e.g. belt or chain, for transmitting drive to wheels
- 17/344 . . having a transfer gear
- 17/346 . . . the transfer gear being a differential gear
- 17/3462 {with means for changing distribution of torque between front and rear wheels}
- 17/3465 {self-actuated means, e.g. differential locked automatically by difference of speed}
- 17/3467 {combined with a change speed gearing, e.g. range gear}
- 17/348 . . having differential means for driving one set of wheels, e.g. the front, at one speed and the other set, e.g. the rear, at a different speed ([B60K 17/346](#) takes precedence)
- 17/35 . . . including arrangements for suppressing or influencing the power transfer, e.g. viscous clutches
- 17/3505 {with self-actuated means, e.g. by difference of speed}
- 17/351 {comprising a viscous clutch}
- 17/3515 {with a clutch adjacent to traction wheel, e.g. automatic wheel hub}
- 17/352 {manually operated}
- 17/354 . . having separate mechanical assemblies for transmitting drive to the front or to the rear wheels or set of wheels
- 17/356 . . having fluid or electric motor, for driving one or more wheels
- 17/358 . . {all driven wheels being steerable}
- 17/36 . . for driving tandem wheels

20/00 Arrangement or mounting of change-speed gearing control devices in vehicles

- 20/02 . . of initiating means
- 20/04 . . floor mounted
- 20/06 . . mounted on steering column or the like
- 20/08 . . Dashboard means

23/00	Arrangement or mounting of control devices for vehicle transmissions, or parts thereof, not otherwise provided for
2023/005	. . {Adjusting multiple pedals, e.g. for their initial position}
23/02	. for main transmission clutches
2023/025	. . {Adjusting of clutch pedal positions}
23/04	. for differential gearing
2023/043	. . {Control means for varying left-right torque distribution, e.g. torque vectoring}
2023/046	. . {Axle differential locking means}
23/06	. for freewheel devices
23/08	. for changing number of driven wheels {, for switching from driving one axle to driving two or more axles (B60K 17/3515 takes precedence)}
23/0808	. . {for varying torque distribution between driven axles, e.g. by transfer clutch}
2023/0816	. . . {for varying front-rear torque distribution with a central differential}
2023/0825	. . . . {for adding torque to the front wheels}
2023/0833	. . . . {for adding torque to the rear wheels}
2023/0841	. . . {for locking a central differential, e.g. by using a lock-up clutch}
2023/085	. . {automatically actuated}
2023/0858	. . . {with electric means, e.g. electro-hydraulic means}
2023/0866	. . . {with hydraulic means only}
2023/0875	. . . {with mechanical means only}
2023/0883	. . {manually actuated}
2023/0891	. . . {with actuator levers, e.g. shift levers or linkage for changing two-wheel to four-wheel drive}
25/00	Auxiliary drives (arrangement of tyre-inflating pumps mounted on vehicles B60C 23/10)
2025/005	. {driven by electric motors forming part of the propulsion unit}
25/02	. directly from an engine shaft
2025/022	. . {by a mechanical transmission}
2025/024	. . . {with variable ratio}
2025/026	. . {by a hydraulic transmission}
2025/028	. . {by a pneumatic transmission}
25/04	. from static or dynamic pressure or vacuum, developed by the engine
25/06	. from the transmission power take-off
2025/065	. . {the transmission being fluidic, e.g. hydraulic}
25/08	. from a ground wheel, e.g. engaging the wheel tread or rim
25/10	. directly from oscillating movements due to vehicle running motion, e.g. suspension movement
2025/103	. . {by electric means}
2025/106	. . {by fluid means}
26/00	Arrangement or mounting of propulsion-unit control devices in vehicles
26/02	. of initiating means or elements
26/021	. . {with means for providing feel, e.g. by changing pedal force characteristics}
2026/022	. . . {with tactile feedback from a controller, e.g. vibrations}
2026/023	. . . {with electrical means to generate counter force or torque}

2026/024	. . {Adjustable consoles, e.g. for changing position of mounting casings}
2026/025	. . {Input devices for controlling electric drive motors}
2026/026	. . {Adjusting of accelerator pedal positions}
2026/027	. . {Acceleration input members mounted on a seat}
2026/028	. . {Acceleration input members mounted on steering wheel or column}
2026/029	. . {Joystick type control devices for acceleration}
26/04	. of means connecting initiating means or elements to propulsion unit
2026/043	. . {with mechanical gearings}
2026/046	. . {with electrical transmission means}

28/00 **Safety devices for propulsion-unit control, specially adapted for, or arranged in, vehicles, e.g. preventing fuel supply or ignition in the event of potentially dangerous conditions (electric safety devices on electrically-propelled vehicles [B60L 3/00](#))**

WARNING

Groups [B60K 28/00](#) - [B60K 28/165](#) are impacted by reclassification into groups [B60W 60/00](#) - [B60W 60/007](#), [B60W 2300/00](#) - [B60W 2530/213](#), [B60W 2540/041](#) - [B60W 2540/049](#), [B60W 2552/00](#) - [B60W 2556/65](#), [B60W 2710/00](#) - [B60W 2720/406](#), and [B60W 2754/00](#) - [B60W 2900/00](#).

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

2028/003	. {inhibiting the starter motor, e.g. by controlling ignition or park lock circuits}
2028/006	. {disconnecting the electric power supply, e.g. the vehicle battery}
28/02	. responsive to conditions relating to the driver
28/04	. . responsive to presence or absence of the driver, e.g. to weight or lack thereof
28/06	. . responsive to incapacity of driver
28/063	. . . {preventing starting of vehicles}
28/066	. . . {actuating a signalling device (B60K 28/063 takes precedence)}
28/08	. responsive to conditions relating to the cargo, e.g. overload
28/10	. responsive to conditions relating to the vehicle
28/12	. . responsive to conditions relating to doors or doors locks, e.g. open door
28/14	. . responsive to accident or emergency, e.g. deceleration, tilt of vehicle
28/16	. . responsive to, or preventing, spinning or skidding of wheels
28/165	. . . {acting on elements of the vehicle drive train other than the propulsion unit and brakes, e.g. transmission, clutch, differential}

31/00 **Vehicle fittings, acting on a single sub-unit only, for automatically controlling vehicle speed, i.e. preventing speed from exceeding an arbitrarily established velocity or maintaining speed at a particular velocity, as selected by the vehicle operator**

NOTE

In this group:

B60K

B60K 31/00
(continued)

- the means ordinarily includes a device, e.g. a servomechanism, for operating a velocity-affecting element of the vehicle, e.g. the throttle;
- a means for preventing a vehicle from exceeding a particular speed is often referred to as a "governor", whereas a means for maintaining the vehicle within a relatively narrow speed range is generally designated as "speed control". Since these two functions are frequently interrelated, no attempt has been made to identify such means as being particularly adapted to perform only one, or the other of the functions.

- 31/0008 . {including means for detecting potential obstacles in vehicle path}
- 2031/0016 . . {Identification of obstacles; Selection of a target vehicle}
- 2031/0025 . . {Detecting position of target vehicle, e.g. vehicle driving ahead from host vehicle}
- 2031/0033 . . {Detecting longitudinal speed or acceleration of target vehicle}
- 2031/0041 . . {Detecting lateral speed of target vehicle}
- 2031/005 . . {Selecting more than one target vehicle, e.g. using several preceding vehicles as target}
- 31/0058 . {responsive to externally generated signalling}
- 31/0066 . {responsive to vehicle path curvature}
- 31/0075 . . {responsive to vehicle steering angle}
- 2031/0091 . {Speed limiters or speed cutters}
- 31/02 . including electrically actuated servomechanism
- 31/04 . . and means for comparing one electrical quantity, e.g. voltage, pulse, waveform, flux, or the like, with another quantity of a like kind, which comparison means is involved in the development of an electrical signal which is fed into the controlling means
- 31/042 . . . {where at least one electrical quantity is set by the vehicle operator}
- 31/045 {in a memory, e.g. a capacitor}
- 31/047 {the memory being digital}
- 31/06 . including fluid pressure actuated servomechanism {in which the vehicle velocity affecting element is actuated by fluid pressure}
- 31/08 . . and one or more electrical components for establishing or regulating input pressure
- 31/10 . . and means for comparing one electrical quantity, e.g. voltage, pulse, waveform, flux, or the like, with another quantity of a like kind, which comparison means is involved in the development of a pressure which is fed into the controlling means
- 31/102 . . . {where at least one electrical quantity is set by the vehicle operator}
- 31/105 {in a memory, e.g. a capacitor}
- 31/107 {the memory being digital}
- 31/12 . including a device responsive to centrifugal force

NOTES

1. This subgroup covers also, for example, the pendulum of a curve compensator, i.e. a refinement to the regulating means for automatically adjusting the "set" speed of the means to changes in the course of the roadway along which the vehicle is travelling.

2. In this subgroup, rotating weights driven at a speed proportional to that of the vehicle's motor presently predominate.

- 31/14 . . having an electrical switch which is caused to function by the centrifugal force
- 31/16 . having means to prevent or discourage unauthorised use or adjusting of the controlling means
- 31/18 . including a device to audibly, visibly, or otherwise signal the existence of unusual or unintended speed
- 31/185 . . {connected to the speedometer display, e.g. by sensors or switches responsive to the position of the indicator needle}

Instruments specially adapted for vehicles or dashboards; Arrangement of instruments or dashboards in or on vehicles

35/00 Instruments specially adapted for vehicles; Arrangement of instruments in or on vehicles

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/20](#) - [B60K 2360/48](#), [B60K 2360/60](#) - [B60K 2360/62](#) and [B60K 2360/92](#) - [B60K 2360/96](#)}

WARNING

Group [B60K 35/00](#) is impacted by reclassification into groups [B60K 35/10](#), [B60K 35/20](#) - [B60K 35/29](#), [B60K 35/40](#) - [B60K 35/425](#), [B60K 35/50](#) - [B60K 35/53](#), [B60K 35/55](#), [B60K 35/60](#), [B60K 35/65](#) - [B60K 35/658](#), [B60K 35/70](#), [B60K 35/80](#) - [B60K 35/81](#), [B60K 35/85](#) and [B60K 35/90](#).

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

- 35/10 . Input arrangements, i.e. from user to vehicle, associated with vehicle functions or specially adapted therefor

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/11](#) - [B60K 2360/149](#)}

WARNING

Group [B60K 35/10](#) is incomplete pending reclassification of documents from group [B60K 35/00](#).

Groups [B60K 35/00](#) and [B60K 35/10](#) should be considered in order to perform a complete search.

- 35/20 . Output arrangements, i.e. from vehicle to user, associated with vehicle functions or specially adapted therefor

NOTE

{In the groups [B60K 35/20](#) - [B60K 35/22](#) and [B60K 35/26](#), it is desirable to add the indexing codes of [B60K 2360/151](#) - [B60K 2360/1526](#)}

B60K 35/20
(continued)**WARNING**

Groups [B60K 35/20](#), [B60K 35/21](#), [B60K 35/211](#), [B60K 35/212](#), [B60K 35/213](#), [B60K 35/214](#), [B60K 35/215](#), [B60K 35/22](#), [B60K 35/223](#), [B60K 35/25](#), [B60K 35/26](#), [B60K 35/265](#), [B60K 35/28](#), [B60K 35/285](#) and [B60K 35/29](#) are incomplete pending reclassification of documents from group [B60K 35/00](#).

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

- 35/21 . . using visual output, e.g. blinking lights or matrix displays
- 35/211 . . . {producing three-dimensional [3D] effects, e.g. stereoscopic images}
- 35/212 . . . {displaying on manual operation elements, e.g. on a knob}
- 35/213 . . . {Virtual instruments}
- 35/214 . . . {Variable gauge scales, e.g. scale enlargement to adapt to maximum driving speed}
- 35/215 . . . characterised by the combination of multiple visual outputs, e.g. combined instruments with analogue meters and additional displays
- 35/22 . . . Display screens
- 35/223 {Flexible displays}
- 35/23 . . . Head-up displays [HUD] (optical aspects of head-up displays [G02B 27/01](#))

WARNING

Group [B60K 35/23](#) is incomplete pending reclassification of documents from group [B60K 35/00](#).

Group [B60K 35/23](#) is also impacted by reclassification into groups [B60K 35/231](#), [B60K 35/232](#), [B60K 35/233](#), [B60K 35/234](#) and [B60K 35/235](#).

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

- 35/231 characterised by their arrangement or structure for integration into vehicles

WARNING

Group [B60K 35/231](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#) and [B60K 35/23](#).

Groups [B60K 35/00](#), [B60K 35/23](#) and [B60K 35/231](#) should be considered in order to perform a complete search.

- 35/232 controlling the projection distance of virtual images depending on the condition of the vehicle or the driver

WARNING

Group [B60K 35/232](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#) and [B60K 35/23](#).

Groups [B60K 35/00](#), [B60K 35/23](#) and [B60K 35/232](#) should be considered in order to perform a complete search.

- 35/233 controlling the size or position in display areas of virtual images depending on the condition of the vehicle or the driver

WARNING

Group [B60K 35/233](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#) and [B60K 35/23](#).

Groups [B60K 35/00](#), [B60K 35/23](#) and [B60K 35/233](#) should be considered in order to perform a complete search.

- 35/234 controlling the brightness, colour or contrast of virtual images depending on the driving conditions or on the condition of the vehicle or the driver

WARNING

Group [B60K 35/234](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#), [B60K 35/23](#) and [B60K 2360/349](#).

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

- 35/235 with means for detecting the driver's gaze direction or eye points

WARNING

Group [B60K 35/235](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#), [B60K 35/23](#) and [B60K 2360/149](#).

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

- 35/25 . . using haptic output
- 35/26 . . using acoustic output
- 35/265 . . . {Voice}
- 35/28 . . characterised by the type of the output information, e.g. video entertainment or vehicle dynamics information; characterised by the purpose of the output information, e.g. for attracting the attention of the driver

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/16](#) - [B60K 2360/179](#)}

- 35/285 . . . {for improving awareness by directing driver's gaze direction or eye points}
- 35/29 . . Instruments characterised by the way in which information is handled, e.g. showing information on plural displays or prioritising information according to driving conditions

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/18](#) - [B60K 2360/199](#)}

- 35/40 . Instruments specially adapted for improving the visibility thereof to the user, e.g. fogging prevention or anti-reflection arrangements

WARNING

Groups [B60K 35/40](#) - [B60K 35/425](#) are incomplete pending reclassification of documents from group [B60K 35/00](#).

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

- 35/405 . . {Fogging prevention}
 35/415 . . {Glare prevention}
 35/425 . . {Anti-reflection arrangements}
 35/50 . Instruments characterised by their means of attachment to or integration in the vehicle ([B60K 35/231](#) takes precedence)

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/816](#) - [B60K 2360/834](#)}

WARNING

Group [B60K 35/50](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#) and [B60K 35/60](#).

Group [B60K 35/50](#) is also impacted by reclassification into groups [B60K 37/00](#), [B60K 37/10](#) and [B60K 37/20](#).

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

- 35/53 . . Movable instruments, e.g. slidable

WARNING

Group [B60K 35/53](#) is incomplete pending reclassification of documents from group [B60K 35/00](#).

Group [B60K 35/53](#) is also impacted by reclassification into group [B60K 35/55](#).

Groups [B60K 35/00](#), [B60K 35/53](#) and [B60K 35/55](#) should be considered in order to perform a complete search.

- 35/55 . Instruments with parts that can change their shape or position to configure an active screen, e.g. by folding or by rolling

WARNING

Group [B60K 35/55](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#) and [B60K 35/53](#).

Groups [B60K 35/00](#), [B60K 35/53](#) and [B60K 35/55](#) should be considered in order to perform a complete search.

- 35/60 . Instruments characterised by their location or relative disposition in or on vehicles ([arrangements of lighting devices on dashboards B60Q 3/10](#))

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/77](#) - [B60K 2360/797](#)}

WARNING

Group [B60K 35/60](#) is incomplete pending reclassification of documents from group [B60K 35/00](#).

Group [B60K 35/60](#) is also impacted by reclassification into groups [B60K 35/50](#) and [B60K 37/00](#) - [B60K 37/20](#).

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

- 35/65 . Instruments specially adapted for specific vehicle types or users, e.g. for left- or right-hand drive

NOTE

{In the groups [B60K 35/65](#) - [B60K 35/658](#), it is desirable to add the indexing codes of [B60K 2360/731](#) - [B60K 2360/741](#)}

WARNING

Groups [B60K 35/65](#), [B60K 35/652](#), [B60K 35/654](#), [B60K 35/656](#) and [B60K 35/658](#) are incomplete pending reclassification of documents from group [B60K 35/00](#).

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

- 35/652 . . {for left- or right-hand drive}
 35/654 . . {the user being the driver}
 35/656 . . {the user being a passenger}
 35/658 . . {the instruments being ergonomically adjustable to the user}

- 35/70 . Instrument provisions for avoiding injuries to vehicle occupants in case of accidents

WARNING

Group [B60K 35/70](#) is incomplete pending reclassification of documents from groups [B60K 35/00](#) and [B60K 2360/652](#).

Groups [B60K 35/00](#), [B60K 2360/652](#) and [B60K 35/70](#) should be considered in order to perform a complete search.

- 35/80 . Arrangements for controlling instruments

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/55](#) - [B60K 2360/577](#)}

WARNING

Groups [B60K 35/80](#) and [B60K 35/81](#) are incomplete pending reclassification of documents from group [B60K 35/00](#).

Groups [B60K 35/00](#), [B60K 35/80](#) and [B60K 35/81](#) should be considered in order to perform a complete search.

- 35/81 . . for controlling displays
 35/85 . Arrangements for transferring vehicle- or driver-related data

NOTE

{In this group, it is desirable to add the indexing codes of [B60K 2360/583](#) - [B60K 2360/595](#)}

B60K 35/85
(continued)**WARNING**

Group [B60K 35/85](#) is incomplete pending reclassification of documents from group [B60K 35/00](#).

Groups [B60K 35/00](#) and [B60K 35/85](#) should be considered in order to perform a complete search.

- 35/90 . Calibration of instruments, e.g. setting initial or reference parameters; Testing of instruments, e.g. detecting malfunction

WARNING

Group [B60K 35/90](#) is incomplete pending reclassification of documents from group [B60K 35/00](#).

Groups [B60K 35/00](#) and [B60K 35/90](#) should be considered in order to perform a complete search.

- 37/00 **Dashboards** (as road-vehicle superstructure sub-units [B62D 25/14](#))

NOTE

{ In this group, it is desirable to add the indexing codes of [B60K 2360/40](#) - [B60K 2360/48](#), [B60K 2360/65](#) - [B60K 2360/6992](#) and [B60K 2360/84](#) }

WARNING

Group [B60K 37/00](#) is incomplete pending reclassification of documents from groups [B60K 35/50](#) and [B60K 35/60](#).

Group [B60K 37/00](#) is also impacted by reclassification into groups [B60K 37/10](#) and [B60K 37/20](#).

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

- 37/10 . Arrangements for attaching the dashboard to the vehicle

WARNING

Group [B60K 37/10](#) is incomplete pending reclassification of documents from groups [B60K 35/50](#), [B60K 35/60](#) and [B60K 37/00](#).

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

- 37/20 . Dashboard panels

WARNING

Group [B60K 37/20](#) is incomplete pending reclassification of documents from groups [B60K 35/50](#), [B60K 35/60](#) and [B60K 37/00](#).

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

- 2310/22 . Displays for target speed
- 2310/24 . Speed setting methods
- 2310/242 . . setting initial target speed, e.g. initial algorithms
- 2310/244 . . changing target speed or setting a new target speed, e.g. changing algorithms
- 2310/246 . . releasing speed control, e.g. inhibiting speed control if a brake pedal is depressed
- 2310/248 . . resuming speed control, e.g. returning to old target speed
- 2310/26 . Distance setting methods, e.g. determining target distance to target vehicle
- 2310/262 . . setting initial distance to preceding vehicle, e.g. initial algorithms
- 2310/264 . . changing distance, e.g. reducing the distance for overtaking
- 2310/266 . . releasing distance control, e.g. inhibiting control if target vehicle lost or changing lane
- 2310/268 . . resuming distance control, e.g. changing target vehicle
- 2310/28 . Following time setting methods, e.g. elapsed delay between preceding and host vehicle
- 2310/30 . Mode switching, e.g. changing from one cruise control mode to another

Details of instruments or dashboards

- 2360/00 Indexing scheme associated with groups [B60K 35/00](#) or [B60K 37/00](#) relating to details of instruments or dashboards**
- 2360/11 . Instrument graphical user interfaces or menu aspects
 - 2360/111 . . for controlling multiple devices
 - 2360/113 . . Scrolling through menu items
 - 2360/115 . . Selection of menu items
 - 2360/117 . . Cursors
 - 2360/119 . . Icons
 - 2360/122 . Instrument input devices with reconfigurable control functions, e.g. reconfigurable menus
 - 2360/126 . Rotatable input devices for instruments
 - 2360/128 . Axially displaceable input devices for instruments
 - 2360/131 . Pivotal input devices for instruments
 - 2360/133 . Multidirectional input devices for instruments
 - 2360/135 . . Joysticks
 - 2360/137 . . Jog-dials
 - 2360/139 . Clusters of instrument input devices
 - 2360/141 . Activation of instrument input devices by approaching fingers or pens
 - 2360/143 . Touch sensitive instrument input devices
 - 2360/1434 . . Touch panels
 - 2360/1438 . . Touch screens
 - 2360/1442 . . . Emulation of input devices
 - 2360/1446 . . Touch switches
 - 2360/145 . Instrument input by combination of touch screen and hardware input devices
 - 2360/146 . Instrument input by gesture
 - 2360/1464 . . 3D-gesture
 - 2360/1468 . . Touch gesture
 - 2360/1472 . . . Multi-touch gesture
 - 2360/1476 . . . Handwriting
 - 2360/148 . Instrument input by voice

2310/00 Arrangements, adaptations or methods for cruise controls

- 2310/20 . Operator actuated switches or levers for cruise control or speed limiting systems

- 2360/149 . Instrument input by detecting viewing direction not otherwise provided for

WARNING

Group [B60K 2360/149](#) is impacted by reclassification into group [B60K 35/235](#).

Groups [B60K 2360/149](#) and [B60K 35/235](#) should be considered in order to perform a complete search.

- 2360/151 . Instrument output devices for configurable output
- 2360/1515 . . Reconfigurable dials
- 2360/1523 . Matrix displays
- 2360/1526 . Dual-view displays
- 2360/16 . Type of output information
- 2360/161 . . Explanation of functions, e.g. instructions
- 2360/162 . . Visual feedback on control action
- 2360/163 . . Language
- 2360/164 . . Infotainment
- 2360/165 . . Videos and animations
- 2360/166 . . Navigation
- 2360/167 . . Vehicle dynamics information
- 2360/168 . . Target or limit values
- 2360/169 . . Remaining operating distance or charge
- 2360/171 . . Vehicle or relevant part thereof displayed
- 2360/172 . . Driving mode indication
- 2360/173 . . Reversing assist
- 2360/174 . . Economic driving
- 2360/175 . . Autonomous driving
- 2360/176 . . Camera images
- 2360/177 . . Augmented reality
- 2360/178 . . Warnings
- 2360/179 . . Distances to obstacles or vehicles
- 2360/18 . Information management
- 2360/182 . . Distributing information between displays
- 2360/184 . . Displaying the same information on different displays
- 2360/186 . . Displaying information according to relevancy
- 2360/1868 . . . according to driving situations
- 2360/1876 . . . according to vehicle situations
- 2360/188 . . Displaying information using colour changes
- 2360/191 . . Highlight information
- 2360/195 . . Blocking or enabling display functions
- 2360/197 . . Blocking or enabling of input functions
- 2360/199 . . for avoiding maloperation
- 2360/20 . Optical features of instruments
- 2360/21 . . using cameras
- 2360/23 . . using reflectors
- 2360/25 . . using filters
- 2360/27 . . using semi-transparent optical elements
- 2360/28 . . . for instruments which are not visible when inactive
- 2360/29 . . Holographic features
- 2360/31 . . Virtual images
- 2360/33 . . Illumination features
- 2360/331 . . . Electroluminescent elements
- 2360/332 . . . Light emitting diodes
- 2360/333 . . . Lasers
- 2360/334 . . . Projection means
- 2360/336 . . . Light guides
- 2360/338 . . . Light strips
- 2360/339 . . . Translucent dashboard skins

- 2360/34 . . . Backlit symbols
- 2360/341 . . . Illumination of dials
- 2360/343 . . . Illumination of matrix displays
- 2360/344 for additionally illuminating mechanical elements, e.g. pointers or control knobs
- 2360/345 . . . Illumination of controls
- 2360/347 . . . Optical elements for superposition of display information
- 2360/349 . . . Adjustment of brightness

WARNING

Group [B60K 2360/349](#) is impacted by reclassification into group [B60K 35/234](#).

Groups [B60K 2360/349](#) and [B60K 35/234](#) should be considered in order to perform a complete search.

- 2360/40 . Hardware adaptations for dashboards or instruments
- 2360/42 . . Circuit board features
- 2360/46 . . Electrical connections
- 2360/47 . . . using wireless power transfer or transmission.
- 2360/48 . . Sensors
- 2360/55 . Remote control arrangements
- 2360/56 . . using mobile devices
- 2360/563 . . . Vehicle displaying mobile device information
- 2360/566 . . . Mobile devices displaying vehicle information
- 2360/569 . . . Vehicle controlling mobile device functions
- 2360/573 . . . Mobile devices controlling vehicle functions
- 2360/577 . . . Mirror link with mobile devices
- 2360/583 . Data transfer between instruments
- 2360/586 . Wired data transfers
- 2360/589 . Wireless data transfers
- 2360/5894 . . SIM cards
- 2360/5899 . . Internet
- 2360/5905 . . Wi-Fi®
- 2360/5911 . . Bluetooth®
- 2360/5915 . . Inter vehicle communication
- 2360/592 . Data transfer involving external databases
- 2360/595 . Data transfer involving internal databases
- 2360/60 . Structural details of dashboards or instruments
- 2360/61 . . Specially adapted for utility vehicles
- 2360/62 . . Anti-theft arrangements
- 2360/65 . . Features of dashboards
- 2360/652 . . . Crash protection features

WARNING

Group [B60K 2360/652](#) is impacted by reclassification into group [B60K 35/70](#).

Groups [B60K 2360/652](#) and [B60K 35/70](#) should be considered in order to perform a complete search.

- 2360/658 . . . Dashboard parts used as air ducts
- 2360/66 . . Projection screens or combiners
- 2360/68 . . Features of instruments
- 2360/682 . . . Arrangements to cover or hide instruments
- 2360/685 . . . Instruments movable with steering column
- 2360/688 . . . Frames or decorative parts
- 2360/691 . . . Housings
- 2360/692 . . . Sealings
- 2360/693 . . . Cover plate features
- 2360/695 . . . Dial features
- 2360/698 . . . Pointers of combined instruments

- 2360/6985 with only part of pointer being visible
- 2360/6992 Light conducting pointers
- 2360/731 . Instruments adaptations for specific vehicle types or users by comprising user programmable systems
- 2360/741 . Instruments adapted for user detection
- 2360/77 . Instrument locations other than the dashboard
- 2360/771 . . on the ceiling
- 2360/774 . . on or in the centre console
- 2360/777 . . on or in sun visors
- 2360/779 . . on or in rear view mirrors
- 2360/782 . . on the steering wheel
- 2360/785 . . on or in relation to the windshield or windows
- 2360/788 . . on or in side pillars
- 2360/791 . . on or in the transmission tunnel or parking brake lever
- 2360/794 . . on or in doors
- 2360/797 . . at the vehicle exterior
- 2360/816 . Fastening of displays or touch screens
- 2360/822 . Adjustment of instruments during mounting
- 2360/828 . Mounting or fastening exchangeable modules
- 2360/834 . . Docking arrangements
- 2360/84 . Mounting of dashboard components
- 2360/92 . Manufacturing of instruments
- 2360/96 . . by assembling

Control mechanisms or devices

- 2700/00** **Control mechanisms and elements applying a mechanical movement**
- 2700/02 . regulating mechanisms combined with non-mechanical transmissions
- 2702/00** **Control devices wherein the control is combined with or essentially influenced by the engine or coupling, e.g. in an internal combustion engine, the control device is coupled with a carburettor control device or influenced by carburettor depression**
- 2702/02 . Automatic transmission with toothed gearing
- 2702/04 . . Control dependent on speed
- 2702/06 . . Control dependent on torque
- 2702/08 . Semi-automatic or non-automatic transmission with toothed gearing
- 2702/10 . . without a preselection system
- 2702/12 . . . the control being mechanical
- 2702/14 . . . the control being hydraulic or pneumatic
- 2702/16 . . . the control being electric
- 2702/18 . . with a preselection system, e.g. semi-automatic
- 2702/20 . . . using different control members for preselection and actuating, e.g. shift actuation is initiated by clutch pedal with elastic connection for energy accumulation
- 2704/00** **Control devices, wherein the control is combined with or mainly influenced by the working of the engine or the main coupling, e.g. control device is linked to the carburettor control and is influenced by depression of pedal, for semi-automatic or non-automatic transmission having toothed wheels**
- 2704/02 . without preselection system, the control being mechanical
- 2704/04 . with preselection system, e.g. for semi-automatic transmission