CPC COOPERATIVE PATENT CLASSIFICATION

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:
   - "conjoint control of drive units" includes such control for vehicles or of general applicability;
   - "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;
   - "drive unit" means propulsion unit conjoint with transmission, a "drive unit" can additionally include the ultimate driven unit;
   - "sub-unit" means, e.g. propulsion unit, clutch, gearing or brake system;
   - "hybrid vehicle" means vehicles with plural diverse prime-movers for mutual or common propulsion
2. Attention is drawn to the Note following the title of class B60

Arrangement or mounting of propulsion units in vehicles (of control devices for such units B60K 26/00; elastic mountings per se F16F; propulsion units or their control per se, see the relevant classes)

B60K 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; electric transmission arrangements B60K 17/12; electric equipment or sropulsion of electrically-propelled vehicles per se B60L; current-collectors for power supply lines of electrically-propelled vehicles B60L 5/00)

B60K 2001/001 . {one motor mounted on a propulsion axle for rotating right and left wheels of this axle}

B60K 2001/003 . {with means for cooling the electrical propulsion units}

B60K 2001/005 . . {the electric storage means}

B60K 2001/006 . . {the electric motors}

B60K 2001/008 . {with means for heating the electrical propulsion units}

B60K 1/02 . comprising more than one electric motor

B60K 1/04 . of the electric storage means for propulsion (for auxiliary purposes only B60R 16/04; supplying batteries to, or removing batteries from, vehicles B60S 5/06)

B60K 2001/0405 . . {characterised by their position}
B60K 2001/0411 . . . {Arrangement in the front part of the vehicle}
B60K 2001/0416 . . . {Arrangement in the rear part of the vehicle}
B60K 2001/0422 . . . {Arrangement under the front seats}
B60K 2001/0427 . . . {Arrangement between the seats}
B60K 2001/0433 . . . {Arrangement under the rear seats}
B60K 2001/0438 . . . {Arrangement under the floor}
B60K 2001/0444 . . . {Arrangement on a trailer}
B60K 2001/045 . . . {Arrangement in a wheel, e.g. a spare wheel}
B60K 2001/0455 . . {Removal or replacement of the energy storages}
B60K 2001/0461 . . . {from the side}
B60K 2001/0466 . . . {from above}
B60K 2001/0472 . . . {from below}
B60K 2001/0477 . . . {from the back}
B60K 2001/0483 . . . {from the front}
B60K 2001/0488 . . . {with arrangements for pivoting}
B60K 2001/0494 . . . {with arrangements for sliding}

B60K 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; gaseous-pressure transmission arrangements B60K 17/10)

B60K 3/02 . of piston type
B60K 3/04 . of turbine type

B60K 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)

B60K 2005/003 . {the internal combustion or jet propulsion unit is arranged between the front and the rear axle}
B60K 2005/006 . {the internal combustion or jet propulsion unit is arranged behind the rear axle}
B60K 5/02 . with the engine main axis, e.g. crankshaft axis, substantially in or parallel to the longitudinal centre line of the vehicle
B60K 5/04 . with the engine main axis, e.g. crankshaft axis, transversely to the longitudinal centre line of the vehicle
B60K 5/06 . . with the engine main axis substantially vertical
B60K 5/08 . comprising more than one engine
B60K 5/10 . providing for ready detachment of engine
B60K 5/12 . Arrangement of engine supports {(Supports comprising both a plastic spring and a fluid damper F16F 13/06)}
B60K 5/1208 . . {Resilient supports (B60K 5/1241 - B60K 5/1291 take precedence)}
B60K 5/1216 . . . {characterised by the location of the supports relative to the motor or to each other (B60K 5/1225 takes precedence)}
B60K 5/1225 . . . {comprising resilient rings surrounding a part of the unit}

B60K 5/1233 . . . {comprising protective elements, e.g. for protecting against heat, dust}

B60K 5/1241 . . {Link-type support (B60K 5/125, B60K 5/1275 take precedence)}

B60K 5/125 . . {Telescopic supports, e.g. telescopic dampers (B60K 5/1275 takes precedence)}

B60K 5/1258 . . {Wire-type supports (B60K 5/1275 takes precedence)}

B60K 5/1266 . . {Supports comprising friction damping devices (B60K 5/125, B60K 5/1283 take precedence)}

B60K 5/1275 . . {Plastically deformable supports}

B60K 5/1283 . . {Adjustable supports, e.g. the mounting or the characteristics being adjustable}

B60K 5/1291 . . {Supports comprising stoppers}

B60K 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 {; Control systems therefor, i.e. systems controlling two or more prime movers, or controlling one of these prime movers and any of the transmission, drive or drive units** (arrangement or mounting in vehicles of electrical gearing, in which an electrical machine serves only as reduction gearing and not as the prime mover and in which no electrical storing means are used B60K 17/12; control and regulation of purely electrical prime movers B60L; prime-movers comprising electrical and internal combustion motors in a common engine block or housing per se F02B 65/00; electric motors or motor-generators used for starting the combustion engine F02N 11/04; electric motors for synchronising gearing F16H 3/12)**}{Informative references: mechanical gearings with secondary electric drive F16H 3/72; arrangements for handling mechanical energy structurally associated with the dynamo-electric machine H02K 7/00; machines comprising structurally interrelated motor and generator parts H02K 51/00; dynamo-electric machines not otherwise provided for in H02K see H02K 57/00}**

NOTE

In this subgroup, the following expressions are used, with the meanings indicated :

- "energy storing means" means apparatus for storing propulsive energy and providing stored energy to drive the prime mover or the ultimate propulsive elements
- "hybrid electric vehicle" (HEV) means a vehicle with an electrical 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
- "motor-generator" means an electric motor, or an electric generator, or an electrical machine which can be used for both functions, as a motor or a generator
- "prime mover" means a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft

B60K 6/08 . Prime-movers comprising combustion engines and mechanical or fluid energy storing means

B60K 6/10 . . by means of a chargeable mechanical accumulator, e.g. flywheel

B60K 6/105 . . . {the accumulator being a flywheel}

B60K 6/12 . . by means of a chargeable fluidic accumulator

B60K 2006/123 . . . {for driving pneumatic motors}

B60K 2006/126 . . . {the hydraulic accumulator starts the engine}

B60K 6/20 . the prime-movers consisting of electric motors and internal combustion engines, e.g. HEVs

NOTE

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

B60K 6/22 . . characterised by apparatus, components or means specially adapted for HEVs

B60K 6/24 . . . characterised by the combustion engines

B60K 6/26 . . . characterised by the motors or the generators

B60K 2006/262 . . . . {the motor or generator are used as clutch, e.g. between engine and driveshaft}

B60K 2006/264 . . . . {with outer rotor and inner stator}

B60K 2006/266 . . . . {with two coaxial motors or generators}

B60K 2006/268 . . . . {Electric drive motor starts the engine, i.e. used as starter motor}

B60K 6/28 . . . characterised by the electric energy storing means, e.g. batteries or capacitors

B60K 6/30 . . . characterised by chargeable mechanical accumulators, e.g. flywheels

B60K 6/32 . . . characterised by the fuel cells

B60K 6/34 . . . characterised by the absence of energy storing means

B60K 6/36 . . . characterised by the transmission gearings

B60K 6/365 . . . . with the gears having orbital motion

B60K 6/38 . . . characterised by the driveline clutches (shift clutches within the gearing or transmission B60K 6/36, {B60K 6/54})

B60K 2006/381 . . . . {characterized by driveline brakes (shift brakes in transmission B60K 6/54)}

B60K 6/383 . . . . One-way clutches or freewheel devices

B60K 6/387 . . . . Actuated clutches, i.e. clutches engaged or disengaged by electric, hydraulic or mechanical actuating means

B60K 6/40 . . . characterised by the assembly or relative disposition of components

B60K 6/405 . . . . Housings

B60K 6/42 . . characterised by the architecture of the hybrid electric vehicle

B60K 6/44 . . . Series-parallel type

B60K 6/442 . . . . Series-parallel switching type

B60K 6/445 . . . . Differential gearing distribution type

B60K 6/448 . . . . Electrical distribution type

B60K 6/46 . . . Series type

B60K 6/48 . . . Parallel type

B60K 2006/4808 . . . . {Electric machine connected or connectable to gearbox output shaft}

B60K 2006/4816 . . . . {Electric machine connected or connectable to gearbox internal shaft}

B60K 2006/4825 . . . . {Electric machine connected or connectable to gearbox input shaft}

B60K 2006/4833 . . . . {Step up or reduction gearing driving generator, e.g. to operate generator in most efficient speed range}

B60K 2006/4841 . . . . . {the gear provides shifting between multiple ratios}

B60K 6/485 . . . . Motor-assist type

B60K 6/50 . . Architecture of the driveline characterised by arrangement or kind of transmission units

B60K 6/52 . . . Driving a plurality of drive axles, e.g. four-wheel drive

B60K 6/54 . . . Transmission for changing ratio

B60K 2006/541 . . . . {without reverse ratio using instead electric reversing}

B60K 2006/542 . . . . {with overdrive ratio}

B60K 6/543 . . . . the transmission being a continuously variable transmission

B60K 6/547 . . . . the transmission being a stepped gearing

B60K 7/00 **Disposition of motor in, or adjacent to, traction wheel** (roller-skate driving mechanisms A63C 17/12)

B60K 7/0007 . {the motor being electric}

B60K 7/0015 . {the motor being hydraulic}

B60K 7/0023 . {the motor being pneumatic}

B60K 2007/003 . {with two or more motors driving a single wheel}

B60K 2007/0038 . {the motor moving together with the wheel axle}

B60K 2007/0046 . {the motor moving together with the vehicle body, i.e. moving independently from the wheel axle}

B60K 2007/0053 . {the motor moving relative to the vehicle body and to the wheel axle}

B60K 2007/0061 . {the motor axle being parallel to the wheel axle}

B60K 2007/0069 . {the motor axle being perpendicular to the wheel axle}

B60K 2007/0076 . . {the motor axle being horizontal}

B60K 2007/0084 . . {the motor axle being vertical}

B60K 2007/0092 . {the motor axle being coaxial to the wheel axle}

B60K 8/00 **Arrangement or mounting of propulsion units not provided for in one of the preceding main groups**

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

B60K 11/00 **Arrangement in connection with cooling of propulsion units** (heating the interior space B60H; cooling internal combustion engines per se F01P)

B60K 11/02 . with liquid cooling

B60K 11/04 . . Arrangement or mounting of radiators, radiator shutters, or radiator blinds {(B60K 11/085 takes precedence)}

B60K 11/06 . with air cooling

B60K 11/08 . Air inlets for cooling; Shutters or blinds therefor {(radiator or grille guards B60R 19/52)}

B60K 11/085 . . {with adjustable shutters or blinds}

B60K 13/00 **Arrangement in connection with combustion air intake or gas exhaust of propulsion units** (extensions for melting snow or ice on roads or like surfaces E01H 5/00, E01H 6/00; forming part of the engine F01N; supplying combustion engines with combustible mixtures or constituents F02M)

B60K 13/02 . concerning intake

B60K 13/04 . concerning exhaust ({collecting exhaust gases with central suction systems not forming part of vehicles, e.g. in workshops or tunnels B08B 15/002, otherwise along carriageways E01C 1/005;} extensions for melting snow on roads E01H 5/00, E01H 6/00; exhaust or silencing apparatus for internal combustion engines per se F01N; {pipes, joints or supports therefor F16L})

B60K 13/06 . using structural parts of the vehicle as ducts, e.g. frame parts

B60K 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** (tanks in general B65D, F17C; supplying combustion engines with combustible mixtures or constituents F02M)

B60K 15/01 . Arrangement of fuel conduits (chassis frame forming fluid conduit means B62D 21/17)

B60K 15/013 . . {of gas conduits}

B60K 2015/016 . . {Fuel conduits having more than one internal passage, e.g. for different types of fuel}

B60K 15/03 . Fuel tanks (chassis frame comprising fluid storage compartment B62D 21/16; {Details of the fuel feeding system related to the fuel tank F02M 37/0076})

B60K 15/03006 . . {Gas tanks (B60K 15/07 takes precedence)}

B60K 2015/03013 . . . {Control systems for LPG tanks}

B60K 2015/03019 . . . {Filling of gas tanks}

B60K 2015/03026 . . . {comprising a valve}

B60K 2015/03032 . . {Manufacturing of fuel tanks}

B60K 2015/03039 . . . {made of a combination of non metallic and metallic materials}

B60K 2015/03046 . . . {made from more than one layer}

B60K 2015/03052 . . . {Fuel tanks made of two balloons, one inside the other}

B60K 2015/03059 . . . {Fuel tanks with double shells or more}

B60K 2015/03065 . . . . {with material filled between the walls}

B60K 2015/03072 . . {Arrangements for reducing evaporation}

B60K 2015/03078 . . . {Membranes, layers or the like covering the surface of the fuel}

B60K 2015/03085 . . . . {using inflatable bags or bladders in the tanks}

B60K 2015/03092 . . {with latent heat storages to reduce the evaporation of fuel}

B60K 2015/03098 . . {with a device for mixing liquids in the fuel tank, e.g. for mixing oil and fuel}

B60K 2015/03105 . . {with supplementary interior tanks inside the fuel tank}

B60K 2015/03111 . . {Swirl pots}

B60K 2015/03118 . . {Multiple tanks, i.e. two or more separate tanks (supplementary tanks inside the fuel tank B60K 2015/03105)}

B60K 2015/03125 . . . {Suction lines for dual tanks}

B60K 2015/03131 . . . {Systems for filling dual tanks}

B60K 2015/03138 . . . {Pumping means between the compartments}

B60K 2015/03144 . . . {Fluid connections between the tanks}

B60K 2015/03151 . . . {Mechanical connection between the tanks}

B60K 2015/03157 . . . {for supply different types of fuel to the motor}

B60K 2015/03164 . . {Modular concepts for fuel tanks}

B60K 2015/03171 . . {Expansion tanks}

B60K 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)}

B60K 2015/03184 . . {Exchangeable tanks, i.e. the empty tank is replaced by refilled tank}

B60K 2015/0319 . . {with electronic systems, e.g. for controlling fuelling or venting (for LPG tanks B60K 2015/03013)}

B60K 2015/03197 . . . {Systems for exchanging data}

B60K 2015/03203 . . . . {during refueling}

B60K 2015/0321 . . {characterised by special sensors, the mounting thereof}

B60K 2015/03217 . . . {Fuel level sensors}

B60K 2015/03223 . . . . {comprising at least two level fuel sensors}

B60K 2015/0323 . . . {Sensors for detecting presence or absence of the filling nozzle}

B60K 2015/03236 . . {characterised by special filters, the mounting thereof}

B60K 2015/03243 . . {characterised by special pumps, the mounting thereof}

B60K 2015/0325 . . . {Jet pumps}

B60K 2015/03256 . . {characterised by special valves, the mounting thereof}

B60K 2015/03263 . . . {Ball valves}

B60K 2015/03269 . . . {Flap valves}

B60K 2015/03276 . . . {Valves with membranes}

B60K 2015/03282 . . . {Umbrella type valves}

B60K 2015/03289 . . . {Float valves; Floats therefor}

B60K 2015/03296 . . . {Pressure regulating valves}

B60K 2015/03302 . . . {Electromagnetic valves}

B60K 2015/03309 . . {Tanks specially adapted for particular fuels}

B60K 2015/03315 . . . {for hydrogen}

B60K 2015/03322 . . . {for methanol}

B60K 2015/03328 . . {Arrangements or special measures related to fuel tanks or fuel handling}

B60K 2015/03335 . . . {for fast filling of fuel tanks, e.g. specific filler pipes for pressurised fuelling}

B60K 2015/03342 . . . {to allow automatic or robotised filling of the tank}

B60K 2015/03348 . . . {for supplying additives to fuel}

B60K 2015/03355 . . . {for supplying different types of fuel}

B60K 2015/03361 . . . {for checking the quality or quantity of fuel during filling of fuel tank}
B60K 2015/03368 . . . {for preventing overfilling of tanks}
B60K 2015/03375 . . . {to improve security}
B60K 2015/03381 . . . {for preventing explosions}
B60K 2015/03388 . . . {in case of a roll over of the vehicle}
B60K 2015/03394 . . . {for preventing expulsion of fuel during filling of the tank}
B60K 2015/03401 . . . {for preventing electrostatic charges}
B60K 2015/03407 . . . {to protect tanks against projectiles}
B60K 2015/03414 . . . {associated with the fuel tank for cooling heated fuel}
B60K 2015/03421 . . . {to protect the fuel tank against heat}
B60K 2015/03427 . . . {for heating fuel, e.g. to avoiding freezing}
B60K 2015/03434 . . . {for preventing theft of fuel (locks for filler caps B60K 15/0409; locking of the inlet cover B60K 2015/0561)}
B60K 2015/0344 . . . {comprising baffles}
B60K 2015/03447 . . . {for improving the sealing}
B60K 2015/03453 . . . {for fixing or mounting parts of the fuel tank together}
B60K 2015/0346 . . . . {by welding}
B60K 2015/03467 . . . . {by clip or snap fit fittings}
B60K 2015/03473 . . . {for draining or emptying a fuel tank}
B60K 2015/0348 . . . {for returning the fuel from the motor}
B60K 2015/03486 . . {characterised by the materials the tank or parts thereof are essentially made from}
B60K 2015/03493 . . . {made of plastics}
B60K 15/035 . . characterised by venting means
B60K 15/03504 . . . {adapted to avoid loss of fuel or fuel vapour, e.g. with vapour recovery systems}
B60K 2015/03509 . . . . {with a droplet separator in the vent line}
B60K 2015/03514 . . . . {with vapor recovery means}
B60K 15/03519 . . . {Valve arrangements in the vent line}
B60K 2015/03523 . . . {Arrangements of the venting tube}
B60K 2015/03528 . . . . {Mounting of venting tubes}
B60K 2015/03533 . . . . {the venting tube being movable with the fuel level}
B60K 2015/03538 . . . . {the venting tube being connected with the filler tube}
B60K 2015/03542 . . . {Mounting of the venting means (mounting of venting tubes B60K 2015/03528)}
B60K 2015/03547 . . . . {the venting means are integrated in the fuel cap or inlet cover}
B60K 2015/03552 . . . . {the venting means are integrated into the fuel filler pipe}
B60K 2015/03557 . . . . {comprising elements of the venting device integrated in the fuel tank, e.g. vapor recovery means}
B60K 2015/03561 . . . {Venting means working at specific times}
B60K 2015/03566 . . . . {comprising means for stopping the venting of fuel vapor, e.g. during refueling or engine stop}

B60K 2015/03571 . . . . {Venting during driving}
B60K 2015/03576 . . . . {Venting during filling the reservoir}
B60K 2015/0358 . . . {the venting is actuated by specific signals or positions of particular parts}
B60K 2015/03585 . . . . {by gas pressure}
B60K 2015/0359 . . . . {by filler cap or inlet cover position}
B60K 2015/03595 . . . . {by filler nozzle}
B60K 15/04 . . Tank inlets (B60K 15/077 takes precedence)
B60K 15/0403 . . . {Anti-siphoning devices}
B60K 15/0406 . . . {Filler caps for fuel tanks}
B60K 15/0409 . . . . {Provided with a lock}
B60K 2015/0412 . . . . . {the key can only be withdrawn when the cap is placed on the filler neck}
B60K 2015/0416 . . . . . {electrically actuated}
B60K 2015/0419 . . . . {Self-sealing closure caps, e.g. that don't have to be removed manually}
B60K 2015/0422 . . . . . {actuated by the inlet cover}
B60K 2015/0425 . . . . . {actuated by a motor}
B60K 2015/0429 . . . . . {actuated by the nozzle}
B60K 2015/0432 . . . . {having a specific connection between the cap and the vehicle or tank opening}
B60K 2015/0435 . . . . . {using a sliding connection}
B60K 2015/0438 . . . . . {using screw or bayonet}
B60K 2015/0441 . . . . . . {with torque control}
B60K 2015/0445 . . . . . {using hinges}
B60K 2015/0448 . . . . {comprising spherical valve type closures}
B60K 2015/0451 . . . . {Sealing means in the closure cap}
B60K 2015/0454 . . . . {combined closing of the fuel inlet and bodywork inlet by one element which is visible from outside}
B60K 2015/0458 . . . {Details of the tank inlet}
B60K 2015/0461 . . . . {comprising a filler pipe shutter, e.g. trap, door or flap for fuel inlet}
B60K 2015/0464 . . . . {comprising a flexible or extendable filler pipes, e.g. corrugated, foldable or with bellows}
B60K 2015/0467 . . . . {Fuel tanks with more than one filler pipe}
B60K 2015/047 . . . . {Manufacturing of the fuel inlet or connecting elements to fuel inlet, e.g. pipes or venting tubes}
B60K 2015/0474 . . . . {Arrangement of fuel filler pipes in relation to vehicle body}
B60K 2015/0477 . . . . {Details of the filler neck tank side}
B60K 2015/048 . . . . {Arrangements for sealing the fuel inlet during filling}
B60K 2015/0483 . . . . {Means to inhibit the introduction of too small or too big filler nozzles}
B60K 2015/0487 . . . . {Means to shield vehicle bodywork from fuel, e.g. during filling}
B60K 2015/049 . . . . {Means for determining the position of the filler nozzle in the filler pipe}
B60K 2015/0493 . . . . {Means for checking absence or presence of closure cap}

B60K 2015/0496 . . . . {the fuel inlet being arranged on the top of the fuel tank}
B60K 15/05 . . . Inlet covers
B60K 2015/0507 . . . . {Arrangements for adjusting the inlet cover}
B60K 2015/0515 . . . . {Arrangements for closing or opening of inlet cover (locking means B60K 2015/0561)}
B60K 2015/0523 . . . . . {with sliding connection to the vehicle body}
B60K 2015/053 . . . . . {with hinged connection to the vehicle body}
B60K 2015/0538 . . . . . {with open or close mechanism automatically actuated}
B60K 2015/0546 . . . . {Arrangements for checking the position of the inlet cover}
B60K 2015/0553 . . . . {Details concerning the inlet box or bowl in the vehicle car body panel}
B60K 2015/0561 . . . . {Locking means for the inlet cover}
B60K 2015/0569 . . . . . {with actuator fixed to the inlet cover}
B60K 2015/0576 . . . . . {with actuator fixed to the vehicle body}
B60K 2015/0584 . . . . . {the locking bolt is linearly moved to lock or unlock}
B60K 2015/0592 . . . . {with storage means for the cap}
B60K 15/06 . . characterised by fuel reserve systems
B60K 15/061 . . . {with level control}
B60K 2015/062 . . . . {Arrangement for filling the fuel reserve systems}
B60K 15/063 . . Arrangement of tanks
B60K 2015/0631 . . . {the fuel tank forming at least part of the vehicle floor}
B60K 2015/0632 . . . {the fuel tank is arranged below the front seat}
B60K 2015/0633 . . . {the fuel tank is arranged below the rear seat}
B60K 2015/0634 . . . {the fuel tank is arranged below the vehicle floor}
B60K 2015/0635 . . . {the fuel tank is arranged between the seats}
B60K 2015/0636 . . . {the fuel tank being part of the chassis or frame}
B60K 2015/0637 . . . {the fuel tank is arranged in the front of the vehicle}
B60K 2015/0638 . . . {the fuel tank is arranged in the rear of the vehicle}
B60K 2015/0639 . . . {the fuel tank is arranged near or in the roof}
B60K 15/067 . . . Mounting of tanks
B60K 2015/0675 . . . . {allowing deflection movements of the tank in case of a crash}
B60K 15/07 . . . . of gas tanks
B60K 15/073 . . Tank construction specially adapted to the vehicle (B60K 15/077 takes precedence)
B60K 15/077 . . with means modifying or controlling distribution or motion of fuel, e.g. to prevent noise, surge, splash or fuel starvation
B60K 2015/0772 . . . {Floats in the fuel tank (float valves B60K 2015/03289)}
B60K 2015/0775 . . . {for reducing movement or slash noise of fuel}
B60K 2015/0777 . . . {in-tank reservoirs or baffles integrally manufactured with the fuel Tank}
B60K 15/10 . concerning gas-producing plants

B60K 16/00 **Arrangements in connection with power supply from force of nature, e.g. sun, wind** (electric propulsion with power supply from force of nature, e.g. sun, wind, B60L 8/00; effecting propulsion by wind motors driving water-engaging propulsive elements B63H 13/00)

B60K 2016/003 . {solar power driven}

B60K 2016/006 . {wind power driven}

Arrangement or mounting of transmissions or their control in vehicles (torque-transmitting axles B60B; combined transmission and steering gear for steering non-deflectable wheels B62D)

B60K 17/00 **Arrangement or mounting of transmissions in vehicles** (clutches per se, e.g. construction thereof, F16D; gearing per se, e.g. construction thereof, F16H)

B60K 17/02 . characterised by arrangement, location, or kind of clutch

B60K 17/04 . characterised by arrangement, location, or kind of gearing (electric equipment or propulsion of electrically-propelled vehicles B60L)

B60K 17/043 . . {Transmission unit disposed in on near the vehicle wheel, or between the differential gear unit and the wheel}

B60K 17/046 . . . {with planetary gearing having orbital motion}

B60K 17/06 . . of change-speed gearing (B60K 17/10 to B60K 17/16 take precedence)

B60K 17/08 . . . of mechanical type

B60K 17/10 . . of fluid gearing (of fluid clutches B60K 17/02)

B60K 17/105 . . . {Units comprising at least a part of the gearing and a torque-transmitting axle, e.g. transaxles (B60K 17/14 takes precedence)}

B60K 17/12 . . of electric gearing (of electrically-actuated clutches B60K 17/02)

B60K 17/14 . . the motor of fluid or electric gearing being disposed in or adjacent to traction wheel (B60K 7/00 takes precedence)

B60K 17/145 . . . {the electric gearing being disposed in or adjacent to traction wheel}

B60K 17/16 . . of differential gearing

B60K 17/165 . . . {provided between independent half axles (B60K 17/18, B60K 17/20 take precedence)}

B60K 17/18 . . . {in which the differential movement is obtained by resilient means}

B60K 17/20 . . . {in which the differential movement is limited}

B60K 17/22 . characterised by arrangement, location, or type of main drive shafting, e.g. cardan shaft

B60K 17/24 . . Arrangements of mountings for shafting

B60K 17/26 . characterised by arrangement, location, of type of freewheel device

B60K 17/28 . characterised by arrangement, location, or type of power take-off

B60K 17/30 . the ultimate propulsive elements, e.g. ground wheels, being steerable

B60K 17/303 . . {with a gearwheel on the steering knuckle or kingpin axis}

B60K 17/306 . . {with a universal joint in the axis of the steering knuckle}

B60K 17/32 . the ultimate propulsive elements, e.g. ground wheels, being rockable about a horizontal pivot

B60K 17/34 . for driving both front and rear wheels, e.g. four wheel drive vehicles (arrangement or mounting of control devices for changing number of driven wheels B60K 23/08)

B60K 17/342 . . having a longitudinal, endless element, e.g. belt or chain, for transmitting drive to wheels

B60K 17/344 . . having a transfer gear

B60K 17/346 . . . the transfer gear being a differential gear

B60K 17/3462 . . . . {with means for changing distribution of torque between front and rear wheels}

B60K 17/3465 . . . . . {self-actuated means, e.g. differential locked automatically by difference of speed}

B60K 17/3467 . . . . {combined with a change speed gearing, e.g. range gear}

B60K 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)

B60K 17/35 . . . including arrangements for suppressing or influencing the power transfer, e.g. viscous clutches (differential gearing with locking devices {F16H 48/20})

B60K 17/3505 . . . . {with self-actuated means, e.g. by difference of speed}

B60K 17/351 . . . . . {comprising a viscous clutch}

B60K 17/3515 . . . . {with a clutch adjacent to traction wheel, e.g. automatic wheel hub}

B60K 17/352 . . . . manually operated

B60K 17/354 . . having separate mechanical assemblies for transmitting drive to the front or to the rear wheels or set of wheels

B60K 17/356 . . having fluid or electric motor, for driving one or more wheels (disposition of motor in, or adjacent to, traction wheel B60K 7/00)

B60K 17/358 . . {all driven wheels being steerable}

B60K 17/36 . for driving tandem wheels

B60K 20/00 **Arrangement or mounting of change-speed gearing control devices in vehicles** (movable cabs having special adaptations of vehicle control devices B62D 33/06; such control devices per se F16H)

B60K 20/02 . of initiating means (control mechanisms in general G05G)

B60K 20/04 . . floor mounted

B60K 20/06 . . mounted on steering column or the like

B60K 20/08 . . Dashboard means

WARNINGS

1. The groups F16H 59/00 to F16H 63/00 were introduced on 1 May, 1988. These groups include the subject matter of B60K 20/14, which from this date is no longer used for the classification of new documents
2. Documents from the backlog of group B60K 20/14 are in the process of being systematically transferred to groups F16H 59/00 to F16H 63/00

B60K 20/14 . . {fluid}

B60K 23/00 **Arrangement or mounting of control devices for vehicle transmissions, or parts thereof, not otherwise provided for** (movable cabs having special adaptations of vehicle control devices B62D 33/06; such control devices per se F16D, F16H)

B60K 2023/005 . {Adjusting multiple pedals, e.g. for their initial position}

B60K 23/02 . for main transmission clutches

B60K 2023/025 . . {Adjusting of clutch pedal positions (clutch adjustment for removing slack F16D 13/75)}

B60K 23/04 . for differential gearing

B60K 2023/043 . . {Control means for varying left-right torque distribution, e.g. torque vectoring}

B60K 2023/046 . . {Axle differential locking means}

B60K 23/06 . for freewheel devices

B60K 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)}

B60K 23/0808 . . {for varying torque distribution between driven axles, e.g. by transfer clutch}

B60K 2023/0816 . . . {for varying front-rear torque distribution with a central differential}

B60K 2023/0825 . . . . {for adding torque to the front wheels}

B60K 2023/0833 . . . . {for adding torque to the rear wheels}

B60K 2023/0841 . . . {for locking a central differential , e.g. by using a lock-up clutch}

B60K 2023/085 . . {automatically actuated}

B60K 2023/0858 . . . {with electric means, e.g. electro-hydraulic means}

B60K 2023/0866 . . . {with hydraulic means only}

B60K 2023/0875 . . . {with mechanical means only}

B60K 2023/0883 . . {manually actuated}

B60K 2023/0891 . . . {with actuator levers, e.g. shift levers or linkage for changing two-wheel to four-wheel drive}

B60K 25/00 **Auxiliary drives** (B60K 16/00 takes precedence; arrangements of tyre-inflating pumps mounted on vehicles B60C 23/10; driving tyre-inflating pumps B60C; driving engine auxiliaries F02B)

B60K 2025/005 . {driven by electric motors forming part of the propulsion unit}

B60K 25/02 . directly from an engine shaft

B60K 2025/022 . . {by a mechanical transmission}

B60K 2025/024 . . . {with variable ratio}

B60K 2025/026 . . {by a hydraulic transmission}

B60K 2025/028 . . {by a pneumatic transmission}

B60K 25/04 . from static or dynamic pressure or vacuum, developed by the engine

B60K 25/06 . from the transmission power take-off (transmissions having power-take-off B60K 17/28)

B60K 2025/065 . . {the transmission being fluidic, e.g. hydraulic}

B60K 25/08 . from a ground wheel, e.g. engaging the wheel tread or rim

B60K 25/10 . directly from oscillating movements due to vehicle running motion, e.g. suspension movement (resilient suspensions having dampers accumulating utilisable energy, e.g. compressing air, B60G 13/14)

B60K 2025/103 . . {by electric means}

B60K 2025/106 . . {by fluid means}

B60K 26/00 Arrangements or mounting of propulsion unit control devices in vehicles

B60K 26/02 . of initiating means or elements

B60K 26/021 . . {with means for providing feel, e.g. by changing pedal force characteristics}

B60K 2026/022 . . . {with tactile feedback from a controller, e.g. vibrations}

B60K 2026/023 . . . {with electrical means to generate counter force or torque}

B60K 2026/024 . . {Adjustable consoles, e.g. for changing position of mounting casings}

B60K 2026/025 . . {Input devices for controlling electric drive motors}

B60K 2026/026 . . {Adjusting of accelerator pedal positions}

B60K 2026/027 . . {Acceleration input members mounted on a seat}

B60K 2026/028 . . {Acceleration input members mounted on steering wheel or column}

B60K 2026/029 . . {Joystick type control devices for acceleration}

B60K 26/04 . of means connecting initiating means or elements to propulsion unit

B60K 2026/043 . . {with mechanical gearings}

B60K 2026/046 . . {with electrical transmission means}

B60K 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 (for electrically-propelled vehicles B60L 3/00; road vehicle drive control systems for purposes not related to the control of a particular sub-units B60W 30/00)

B60K 2028/003 . {inhibiting the starter motor, e.g. by controlling ignition or park lock circuits}

B60K 2028/006 . {disconnecting the electric power supply, e.g. the vehicle battery}

B60K 28/02 . responsive to conditions relating to the driver {(see provisionally also B60K 28/00)}

B60K 28/04 . . responsive to presence or absence of the driver, e.g. to weight or lack thereof

B60K 28/06 . . responsive to incapacity of driver

B60K 28/063 . . . {preventing starting of vehicles}

B60K 28/066 . . . {actuating a signalling device (B60K 28/063 takes precedence)}

B60K 28/08 . responsive to conditions relating to the cargo, e.g. overload {(see provisionally also B60K 28/00)}

B60K 28/10 . responsive to conditions relating to the vehicle {(see provisionally also B60K 28/00)}

B60K 28/12 . . responsive to conditions relating to doors or doors locks, e.g. open door {(see provisionally also B60K 28/00)}

B60K 28/14 . . responsive to accident or emergency, e.g. deceleration, tilt of vehicle

B60K 28/16 . . responsive to, or preventing, skidding of wheels (brake control systems for vehicle drive stability B60T 8/1755; arrangements responsive to a speed condition for adjusting wheel braking force B60T 8/32; control of vehicle driving stability otherwise than by controlling the propulsion unit only B60W 30/02; preventing wheel slippage by reducing power in rail vehicles B61C 15/00)

B60K 28/165 . . . {acting on elements of the vehicle drive train other than the propulsion unit and brakes, e.g. transmission, clutch, differential (acting on brakes B60T 8/17)}

B60K 31/00 **Vehicle fittings, acting on a single sub-unit only, for automatically controlling, i.e. preventing speed from exceeding an arbitrarily established velocity or maintaining speed at a particular velocity, as selected by the vehicle operator** (fittings acting on two or more sub-units B60W 30/14; propulsion unit control in general, see the relevant classes or subclasses, e.g. F02D; speedometers G01P; systems or devices for controlling speed in general G05D 13/00; {in traffic anti-collision system for road vehicles G08G 1/16})

NOTE

In this group:
- 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.

B60K 31/0008 . {including means for detecting potential obstacles in vehicle path}

B60K 2031/0016 . . {Identification of obstacles; Selection of a target vehicle}

B60K 2031/0025 . . {Detecting position of target vehicle, e.g. vehicle driving ahead from host vehicle}

B60K 2031/0033 . . {Detecting longitudinal speed or acceleration of target vehicle}

B60K 2031/0041 . . {Detecting lateral speed of target vehicle}

B60K 2031/005 . . {Selecting more than one target vehicle, e.g. using several preceding vehicles as target}

B60K 31/0058 . {responsive to externally generated signalling}

B60K 31/0066 . {responsive to vehicle path curvature}

B60K 31/0075 . . {responsive to vehicle steering angle}

B60K 31/0083 . . {responsive to centrifugal force acting on vehicle due to the path it is following}

B60K 2031/0091 . {Speed limiters or speed cutters}

B60K 31/02 . including electrically actuated servomechanism {including an electric control system or a servomechanism in which the vehicle velocity affecting element is actuated electrically}

B60K 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

B60K 31/042 . . . {where at least one electrical quantity is set by the vehicle operator}

B60K 31/045 . . . . {in a memory, e.g. a capacitor}

B60K 31/047 . . . . . {the memory being digital}

B60K 31/06 . including fluid pressure actuated servomechanism {in which the vehicle velocity affecting element is actuated by fluid pressure}

B60K 31/08 . . and one or more electrical components for establishing or regulating input pressure

B60K 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

B60K 31/102 . . . {where at least one electrical quantity is set by the vehicle operator}

B60K 31/105 . . . . {in a memory, e.g. a capacitor}

B60K 31/107 . . . . . {the memory being digital}

B60K 31/12 . including a device responsive to centrifugal forces {(centrifugal force acting on the vehicle due to the path it is following B60K 31/0083, motor speed limiting by governors G05D 13/10)}

B60K 31/14 . . having an electrical switch which is caused to function by the centrifugal force

B60K 31/16 . having means to prevent or discourage unauthorised use or adjusting of the controlling means {(vehicle theft prevention in general B60R 25/00)}

B60K 31/18 . including a device to audibly, visibly, or otherwise signal the existence of unusual or unintended speed {to the driver of the vehicle (devices primarily intended for indicating speed to other traffic B60Q 1/54)}

B60K 31/185 . . {connected to the speedometer display, e.g. by sensors or switches responsive to the position of the indicator needle (arrangement of pointers in automobile speedometers for indicating predetermined speeds by the detection of the position of the indicator needle G01P 1/11)}

Arrangement of adaptations of instruments specially for vehicles; Dashboards

B60K 35/00 **Arrangement of adaptations of instruments** (arrangements on dashboard B60K 37/02)

B60K 37/00 **Dashboards** (as road-vehicle superstructure sub-unit B62D)

B60K 37/02 . Arrangement of instruments (devices for lighting dashboard B60Q)

B60K 37/04 . Arrangement of fittings on dashboard (of instruments B60K 37/02)

B60K 37/06 . . of control, e.g. control knobs

B60K 41/00 **Conjoint control of drive units; Conjoint control of at least two sub-units thereof** (arrangement of plural diverse prime-movers for mutual or common propulsion B60K 6/00)

NOTES

1. The control of a single sub-unit is classified in the relevant class for the sub-unit. Where a single sub-unit is controlled by means of signals or commands from other sub-units the control of this single sub-unit is classified in the relevant class for this sub-unit. For instance, the control of variable-ratio

B60K 41/00 (continued)

gearing by means of signals from the engine or { from another sub-unit influenced by} the accelerator is classified in subclass F16H

2. Conjoint control of drive units, e.g. propulsion units, and variable-ratio gearing occuring only transiently during ratio shift and being also characterised by the control of the gearing is classified in subclass F16H

WARNING

This group and its subgroups are no longer used for the classification of new documents as from January 1st, 2006. The backlog of thse groups is being continuosly reclassified to the relevant groups of B60W.

B60K 41/002 . {Changing foot controls into hand controls, e.g. for invalid people}

B60K 41/004 . {using electrical means}

B60K 41/006 . . {with analogue circuits, relays and switches}

B60K 41/008 . {using hydraulic or pneumatic means}

B60K 41/02 . of propulsion unit and clutch

B60K 41/022 . . {using electrical means}

B60K 41/025 . . . {with analogue circuits, relays and switches}

B60K 41/027 . . {using hydraulic or pneumatic means}

B60K 41/04 . of propulsion unit and gearing

B60K 41/042 . . {using electrical means}

B60K 41/045 . . . {with analogue circuits, relays and switches}

B60K 41/047 . . {using hydraulic or pneumatic means}

B60K 41/06 . . the gearing being stepped

B60K 41/062 . . . {using electrical means}

B60K 41/065 . . . . {with analogue circuits, relays and switches}

B60K 41/067 . . . {using hydraulic or pneumatic means}

B60K 41/08 . . . with interruption of the drive

B60K 41/082 . . . . {using electrical means}

B60K 41/085 . . . . . {with analogue circuits, relays and switches}

B60K 41/087 . . . . {using hydraulic or pneumatic means}

B60K 41/10 . . . without interruption of the drive

B60K 41/102 . . . . {using electrical means}

B60K 41/105 . . . . . {with analogue circuits, relays and switches}

B60K 41/107 . . . . {using hydraulic or pneumatic means}

B60K 41/12 . . the gearing being infinitely variable

B60K 41/14 . . . of mechanical type

B60K 41/142 . . . . {using electrical means}

B60K 41/145 . . . . . {with analogue circuits, relays and switches}

B60K 41/147 . . . . {using hydraulic or pneumatic means}

B60K 41/16 . . . of fluid type

B60K 41/162 . . . . {using electrical means}

B60K 41/165 . . . . . {with analogue circuits, relays and switches}

B60K 41/167 . . . . {using hydraulic or pneumatic means}
B60K 41/18 . . . of electric type, e.g. electromagnetic
B60K 41/20 . of propulsion unit and brake system
B60K 41/202 . . {using electrical means}
B60K 41/205 . . . {with analogue circuits, relays and switches}
B60K 41/207 . . {using hydraulic or pneumatic means}
B60K 41/22 . of clutch and gearing (control of torque converter lock-up clutches F16H 61/14)
B60K 41/222 . . {using electrical means}
B60K 41/225 . . . {with analogue circuits, relays and switches}
B60K 41/227 . . {using hydraulic or pneumatic means}
B60K 41/24 . of clutch and brake system
B60K 41/242 . . {using electrical means}
B60K 41/245 . . . {with analogue circuits, relays and switches}
B60K 41/247 . . {using hydraulic or pneumatic means}
B60K 41/26 . of gearing and brake system
B60K 41/262 . . {using electrical means}
B60K 41/265 . . . {with analogue circuits, relays and switches}
B60K 41/267 . . {using hydraulic or pneumatic means}
B60K 41/28 . of three or more sub-units
B60K 41/282 . . {using electrical means}
B60K 41/284 . . . {the sub-units being engine, clutch and gearing}
B60K 41/286 . . . {with analogue circuits, relays and switches}
B60K 41/288 . . {using hydraulic or pneumatic means}

B60K 2310/00 **Arrangements, adaptations or methods for cruise controls**

B60K 2310/20 . Operator actuated switches or levers for cruise control or speed limiting systems
B60K 2310/22 . Displays for target speed
B60K 2310/24 . Speed setting methods
B60K 2310/242 . . setting initial target speed, e.g. initial algorithms
B60K 2310/244 . . changing target speed or setting a new target speed, e.g. changing algorithms
B60K 2310/246 . . releasing speed control, e.g. inhibiting speed control if a brake pedal is depressed
B60K 2310/248 . . resuming speed control, e.g. returning to old target speed
B60K 2310/26 . Distance setting methods, e.g. determining target distance to target vehicle
B60K 2310/262 . . setting initial distance to preceding vehicle, e.g. initial algorithms
B60K 2310/264 . . changing distance, e.g. reducing the distance for overtaking
B60K 2310/266 . . releasing distance control, e.g. inhibiting control if target vehicle lost or changing lane
B60K 2310/268 . . resuming distance control, e.g. changing target vehicle

B60K 2310/28 . Following time setting methods, e.g. elapsed delay between preceding and host vehicle

B60K 2310/30 . Mode switching, e.g. changing from one cruise control mode to another

Arrangement or mounting of propulsion units in vehicles (of control devices for such units B60K 26/00; elastic mountings per se F16F; propulsion units or their control per se, see the relevant classes)

B60K 2350/00 Arrangements or adaptations of instruments; Dashboards

B60K 2350/10 . Input/output devices or features thereof

B60K 2350/1004 . . Graphical user interfaces or menu aspects

B60K 2350/1008 . . Input devices or features thereof

B60K 2350/1012 . . . Controls by an approaching finger

B60K 2350/1016 . . . with reconfigurable control functions

B60K 2350/102 . . . Rotary controllers

B60K 2350/1024 . . . Touch sensitive control means or buttons

B60K 2350/1028 . . . . Touch screens

B60K 2350/1032 . . . . . Emulation of control buttons

B60K 2350/1036 . . . . Touch switches

B60K 2350/104 . . . Input by combination of touch screen and control button

B60K 2350/1044 . . . Input by voice

B60K 2350/1048 . . . Joysticks

B60K 2350/1052 . . . Input by gesture

B60K 2350/1056 . . Output devices of features thereof

B60K 2350/106 . . . Video screens

B60K 2350/1064 . . . Combined instruments with analogue meters and additional displays

B60K 2350/1068 . . . the same information is available on different displays

B60K 2350/1072 . . . Virtual instruments

B60K 2350/1076 . . Type of information

B60K 2350/108 . . . Explanation of functions

B60K 2350/1084 . . . Distance to obstacles or vehicles

B60K 2350/1088 . . . Reversing assist

B60K 2350/1092 . . . Eonomic driving

B60K 2350/1096 . . . Information displayed according to relevancy

B60K 2350/20 . Optical features of instruments

B60K 2350/2004 . . Displays on a manual operation element

B60K 2350/2008 . . using color changes

B60K 2350/2013 . . using a camera

B60K 2350/2017 . . Three-dimensional displays

B60K 2350/2021 . . using a filter

B60K 2350/2026 . . Holographic features

B60K 2350/203 . . Illumination features
B60K 2350/2034 . . . Electroluminescent elements
B60K 2350/2039 . . . Backlit symbols
B60K 2350/2043 . . . Translucent dashboard skins
B60K 2350/2047 . . using a laser
B60K 2350/2052 . . using projection means
B60K 2350/2056 . . Optical elements for superposition of display information
B60K 2350/206 . . Optical elements in front of, or behind a dial
B60K 2350/2065 . . using real or virtual images of components
B60K 2350/2069 . . Adjustment of brightness
B60K 2350/2073 . . Fogging prevention
B60K 2350/2078 . . Glare prevention
B60K 2350/2082 . . Anti-reflection means
B60K 2350/2086 . . Instrument cover plate features
B60K 2350/2091 . . . for instruments which should not be visible
B60K 2350/2095 . . Semi-transparent optical elements
B60K 2350/30 . Hardware adaptations for dashboards
B60K 2350/302 . . Circuit board features
B60K 2350/305 . . Wiring harness
B60K 2350/307 . . Electrical connections
B60K 2350/35 . Control system arrangements
B60K 2350/352 . . Control of displays
B60K 2350/355 . . Remote controls
B60K 2350/357 . . Wireless data transfers
B60K 2350/40 . Structural details of dashboards
B60K 2350/401 . . Dashboard parts used as air ducts
B60K 2350/402 . . Instrument dial features
B60K 2350/403 . . . with several available dial configurations
B60K 2350/405 . . Foldable or movable screens
B60K 2350/406 . . Means to cover or hide instruments
B60K 2350/407 . . Instruments movable with steering column
B60K 2350/408 . . Pointers of combined instruments
B60K 2350/90 . Problems related to user adaptation
B60K 2350/901 . . the user is the driver
B60K 2350/903 . . the user is the passenger
B60K 2350/905 . . Adaptation to left or right steering
B60K 2350/906 . . Disabling of display functions
B60K 2350/908 . . Manual selection of display features
B60K 2350/92 . Mounting positions or locations
B60K 2350/921 . . characterised by locations other than the dashboard

B60K 2350/922 . . . on the ceiling
B60K 2350/924 . . . at vehicle exterior
B60K 2350/925 . . . on or in the centre console
B60K 2350/927 . . . on sun visor or rear view mirror
B60K 2350/928 . . . on the steering wheel
B60K 2350/94 . Mounting process, Fixation means
B60K 2350/941 . . Fixation of instruments to dashboard
B60K 2350/943 . . Fixation of dashboard to vehicle structure
B60K 2350/945 . . using exchangeable modules
B60K 2350/946 . . using inserts
B60K 2350/948 . . with pluggable connections
B60K 2350/96 . Perception or visibility of information
B60K 2350/962 . . Perception adaptable to driving situations
B60K 2350/965 . . Means for improving awareness
B60K 2350/967 . . Blocking display functions

B60K 2700/00 **Control mechanisms and elements applying a mechanical movement**
B60K 2700/02 . regulating mechanisms combined with non-mechanical transmissions

B60K 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**
B60K 2702/02 . Automatic transmission with toothed gearing
B60K 2702/04 . . Control dependent on speed
B60K 2702/06 . . Control dependent on torque
B60K 2702/08 . Semi-automatic or non-automatic transmission with toothed gearing
B60K 2702/10 . . without a preselection system
B60K 2702/12 . . . the control being mechanical
B60K 2702/14 . . . the control being hydraulic or pneumatic
B60K 2702/16 . . . the control being electric
B60K 2702/18 . . with a preselection system, e.g. semi-automatic
B60K 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

B60K 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**
B60K 2704/02 . without preselection system, the control being mechanical
B60K 2704/04 . with preselection system, e.g. for semi-autonmatic transmission

B60K 2741/00 **Conjoint control of drive units; Conjoint control of at least two sub-units thereof**

NOTE

These groups are created for temporary back-up of former group B60K 41/00 which will be replaced by B60W

B60K 2741/003 . Changing foot controls into hand controls, e.g. for invalid people
B60K 2741/006 . using electrical means
B60K 2741/02 . of propulsion unit and clutch
B60K 2741/025 . . using electrical means
B60K 2741/04 . of propulsion unit and gearing
B60K 2741/045 . . using electrical means
B60K 2741/06 . . the gearing being stepped
B60K 2741/065 . . . using electrical means
B60K 2741/08 . . . with interruption of the drive
B60K 2741/085 . . . . using electrical means
B60K 2741/10 . . . without interruption of the drive
B60K 2741/105 . . . . using electrical means
B60K 2741/12 . . the gearing being infinitely variable
B60K 2741/14 . . . of mechanical type
B60K 2741/145 . . . . using electrical means
B60K 2741/16 . . . of fluid type
B60K 2741/165 . . . . using electrical means
B60K 2741/18 . . . of electric type, e.g. electromagnetic
B60K 2741/20 . of propulsion unit and brake system
B60K 2741/205 . . using electrical means
B60K 2741/22 . of clutch and gearing
B60K 2741/225 . . using electrical means
B60K 2741/24 . of clutch and brake system
B60K 2741/245 . . using electrical means
B60K 2741/26 . of gearing and brake system
B60K 2741/265 . . using electrical means
B60K 2741/28 . of three or more sub-units
B60K 2741/283 . . using electrical means
B60K 2741/286 . . . the sub-units being engine, clutch and gearing