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WORKING PARTY OF EXPERTS
ON THE CLASSIFICATION OF
PATENTS

Title of Class B 62

Sub-Classes

B 62c and

B 62d

Note: / The occurrence of this marginal mark indicates
that such subject matter will be **considered for**
transfer to a general vehicle class when that
class is created and elaborated.

A 87.364

B 62 Title in Annex: RAIL-LESS VEHICLES

B 62 LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS

B 62 c Vehicles drawn by animals

Explanatory note: This sub-class is intended to cover only vehicles or parts thereof insofar as the relevant features are essential for animal-drawn vehicles. Without such features animal-drawn vehicles are regarded as trailers which are dealt with in sub-class B 62 d or sledges which are dealt with in B 62 b.

Summary of Main Groups

- 1/00 Types of vehicles
- 3/00 Undercarriages or running gear of vehicles; Axle supports
- 5/00 Draught assemblies
- 7/00 Braking mechanisms and brake control devices specially adapted for animal-drawn vehicles
- 9/00 Carriers or holders for whips; Holders for reins forming part of or attached to vehicles
- 11/00 Safeguarding appliances not otherwise provided for, e.g. for readily releasing unmanageable draught animals

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- 1/00 Types of vehicles
 - 1/02 . Passenger vehicles
 - 1/04 . Load carrying vehicles
 - 1/06 . . convertible, e.g. with extensible parts, with changeable wheel track
 - 1/08 . Racing vehicles, e.g. sulkies
- 3/00 Undercarriages or running gear of vehicles; Axle supports (undercarriages for supporting agricultural tools or apparatus A 01 b 51/00)
 - 3/02 . Front wheel carriers; Bogies; Steering mechanisms for bogies

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- 5/00 Draught assemblies
- 5/02 . Shafts, poles, or thills; Mountings thereof, e.g. resilient, adjustable
- 5/04 . Swingletrees; Mountings thereof; Draught equalisiers for a span of draught animals; Mountings for traces (traces B 68 b 3/20)
- 7/00 Braking mechanisms and brake control devices specially adapted for animal-drawn vehicles (brakes in general F 06 d)
- 7/02 . Mechanisms for locking ground-engaging wheels, e.g. engaging spokes
- 7/04 . Automatic brake control devices
- 9/00 Carriers or holders for whips; Holders for reins forming part of or attached to vehicles (reins or whips per se B 68 b)
- 11/00 Safeguarding appliances not otherwise provided for, e.g. for readily releasing unmanageable draught animals
- 11/02 . Providing for disengaging thills
- 11/04 . . combined with automatic braking

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B 62 d Title in Annex: Motor vehicles (undercarriages,
driving mechanisms, attachment of the engine,
steering devices, etc.); Trucks; Trailers

B 62 d Motor vehicles; Trailers

Explanatory note: In this sub-class the following terms
are used with the meanings stated:

- (1) "Vehicles" includes motor vehicles and trailers
- (2) "Trailers" includes fore-cars or sidecars
- (3) "Motor" includes all types of propulsion units
- (4) "Transmission" means all propulsion parts linking
the propulsion unit to the driven ground wheels, or
wheel equivalents, and specially adapted for motor
vehicles.

Summary of Guide Headings and Main Groups

Arrangement or mounting of propulsion units in motor vehicles

- 1/00 Arrangement or mounting of electrical propulsion installations
- 3/00 Arrangement or mounting of steam or gaseous pressure propulsion units
- 5/00 Arrangement or mounting of internal combustion or jet propulsion units
- 7/00 Disposition of motor in or adjacent to traction wheel
- 9/00 Arrangement or mounting of propulsion units not provided for in one of the previous main groups

Vehicle modifications in connexion with cooling, air intake, gas exhaust, or fuel supply of propulsion units

- 11/00 Vehicle modifications to facilitate cooling of propulsion units
- 13/00 Vehicle modifications in connexion with combustion air intake or gas exhaust of propulsion units
- 15/00 Vehicle modifications in connexion with fuel supply of combustion engines

Transmissions

- 17/00 Transmissions
- 19/00 Change-speed gearing control devices specially adapted or arranged for use in motor vehicles
- 21/00 Control of change-speed gearing combined with control of supply of energy from propulsion unit to gearing, e.g. fuel supply or clutch
- 23/00 Control of transmissions or parts thereof not otherwise provided for

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- 25/00 Drives of auxiliary or external machines or devices from the engine, transmission, or other parts of the vehicle; Controls therefor

Brakes specially adapted or arranged for use in motor vehicles or trailers

- 27/00 Arrangements or adaptations of braking elements, i.e. of those parts where braking effect occurs
- 29/00 Arrangements or adaptations of brake-action initiating means
- 31/00 Arrangements or adaptations of devices for transmitting braking action from initiating means to brakes

- 33/00 Braking system arrangements for adjusting wheel braking-force during use to meet varying vehicular or road conditions, e.g. limiting or varying distribution of braking-force
- 35/00 Portable devices for preventing unwanted movement of vehicles, e.g. chocks
- 37/00 Arrangements or adaptations of braking devices not provided for in one of the previous main groups
- 39/00 Vehicle modifications to facilitate cooling of brakes

Steering of motor vehicles or trailers

- 41/00 Steering controls, i.e. means for initiating a change of direction of the vehicle
- 43/00 Steering gears
- 45/00 Power-assisted or power-driven steering
- 47/00 Steering linkage; Stub-axles and their mounting
- 49/00 Steering deflectable wheels not otherwise provided for
- 51/00 Steering non-deflectable wheels; Steering endless tracks or the like
- 53/00 Steering specially adapted for trailers
- 55/00 Steering not otherwise provided for
- 57/00 Means on vehicle for adjusting camber, castor, or toe-in

Vehicle drive control not otherwise provided for

- 59/00 Propulsion unit control devices specially adapted or arranged for use on motor vehicles
- 61/00 Conjoint control devices for vehicle drive, i.e. one device controlling a plurality of differing functions
- 63/00 Other control devices for vehicle drive

Connexions between the vehicles of a vehicle train or of like compound vehicle units

- 65/00 Traction couplings; Hitches; Towing devices; Joints for supply lines or the like
- 67/00 Fittings to facilitate pushing
- 69/00 Gangways for articulated vehicles, e.g. of concertina type
- 71/00 Other connexions

Suspension arrangements

- 73/00 Suspensions with rigid connexion between axle and frame
- 75/00 Resilient suspension for a single wheel
- 77/00 Resilient suspension for a single set of tandem wheels
- 79/00 Pivoted suspension arms; Accessories thereof
- 81/00 Resilient suspension of a rigid axle or axle housing for two or more wheels
- 83/00 Resilient suspensions characterised by arrangement, location, or type of springs
- 85/00 Resilient suspensions characterised by arrangement, location or type of vibration dampers
- 87/00 Resilient suspensions characterised by arrangement, location or type of combined spring and vibration damper, e.g. telescopic type
- 89/00 Resilient suspensions having means for adjusting or regulating spring or vibration damper characteristics or distance between ground and sprung part of vehicle during use to meet varying vehicular or road conditions, e.g. due to speed or load
- 91/00 Interconnexion systems for two or more resiliently suspended wheels in which upward movement of a wheel forces interconnected wheel to move downward and vice versa
- 93/00 Interconnexion systems for two or more resiliently suspended wheels for stabilising vehicle body with respect to acceleration, deceleration, or centrifugal forces, e.g. to counteract dipping or outward inclining
- 95/00 Wheel suspensions with automatic means for sensing unevenness ahead of wheels and for moving wheels up or down in accordance therewith
- 97/00 Suspension arrangements not otherwise provided for

Axle units; Radius rods or distance members

- 99/00 Axle units; Parts thereof
- 101/00 Radius rods, i.e. distance members

Understructures; Superstructures; Vehicle bodies

- 103/00 Understructures, i.e. chassis frames
- 105/00 Combined superstructure and frame, i.e. monocoque constructions
- 107/00 Superstructure sub-units; Parts or details thereof and not otherwise provided for

- 109/00 Connexions between superstructure sub-units
- 111/00 Elements for body-finishing, identifying, or decorating; Arrangements or adaptations for advertising purposes
- 113/00 Superstructures characterised by material thereof
- 115/00 Superstructures for passenger vehicles
- 117/00 Superstructures for load carrying vehicles
- 119/00 Vehicle bodies characterised by stream-lining
- 121/00 Stabilising vehicle bodies without controlling suspension arrangements
- 123/00 Vehicle bodies not otherwise provided for

Arrangements or adaptations of windows, windscreens, non-fixed roofs, doors, or similar entrances or exits, specially for motor vehicles or trailers; Protective coverings

- 125/00 Windows; Windscreens
- 127/00 Antiglare equipment or sun visors associated with windows or windscreens
- 129/00 Doors
- 131/00 Non-fixed roofs or like shelters
- 133/00 Devices not provided for in one of the previous main groups
- 135/00 Arrangement of optical viewing devices

Vehicle fittings for vehicle-cleaning purposes

- 137/00 Vehicle fittings for cleaning windscreens, windows or optical devices, e.g. demisting or defrosting
- 139/00 Other vehicle fittings for cleaning

Arrangements or adaptations of signal or lighting devices specially with respect to motor vehicles or trailers

- 141/00 Arrangements or adaptations of optical signalling or lighting devices
- 143/00 Arrangements or adaptations of lighting devices for vehicle interior
- 145/00 Arrangements or adaptations of acoustic signal devices
- 147/00 Portable emergency signal devices to be placed on roadways or vehicles
- 149/00 Arrangements or adaptations of signal devices not provided for in one of the previous main groups

Miscellaneous safeguarding appliances

- 151/00 Arrangements or fittings on vehicles for preventing injuries to persons in case of accidents or other traffic risks, e.g. in case of high deceleration
- 153/00 Vehicle fittings for preventing or indicating unauthorised use or theft of vehicle
- 155/00 Means for increasing wheel adhesion
- 157/00 Vehicle fittings for automatically controlling, e.g. limiting vehicle speed
- 159/00 Wheel guards, radiator guards, obstruction removers, fittings damping bouncing force at collisions
- 161/00 Fittings for identifying vehicles in case of collision or for marking or recording collision areas
- 163/00 Arrangements or adaptations of fire-extinguishing apparatus
- 165/00 Safeguarding appliances for motor vehicles or trailers and not otherwise provided for

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- 167/00 Arrangements or adaptations of weighing-machines for automatically indicating weight of load

Arrangements or adaptations of air-treating devices specially for passenger or goods spaces of motor vehicles or trailers

- 169/00 Heating or ventilating devices
- 171/00 Other air-treating devices

Arrangements or adaptations of seats or passenger fittings not otherwise provided for specially for motor vehicles or trailers

- 173/00 Arrangements or adaptations of seats
- 175/00 Arrangements or adaptations of other passenger fittings and not otherwise provided for

Miscellaneous arrangements for stowing, holding, or mounting articles in or on motor vehicles or trailers

- 177/00 Spare wheel stowing, holding, or mounting arrangements
- 179/00 Compartments within vehicle body primarily intended or sufficiently spacious for trunks, suit-cases, or the like
- 181/00 Stowing or holding appliances inside of vehicle primarily intended for passenger's property smaller than suit-cases, e.g. passenger's apparel, travelling articles, or maps

- 183/00 Supplementary fittings on vehicle exterior for carrying luggage or the like
- 185/00 Arrangements for holding or mounting articles and not otherwise provided for

Arrangements or devices for supporting, lifting, or manoeuvring the vehicle

- 187/00 Ground-engaging vehicle fittings for supporting, lifting, or manoeuvring the vehicle wholly or in part, e.g. built-in jacks
- 189/00 Vehicle modifications for receiving separate lifting or supporting devices

Arrangements or adaptations of instruments specially for motor vehicles or trailers; Dashboards

- 191/00 Arrangements or adaptations of instruments
- 193/00 Dashboards

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- 195/00 Arrangements or adaptations of electric components specially for motor vehicles or trailers and not otherwise provided for
 - 197/00 Arrangements or adaptations of lubricating systems or devices specially for motor vehicles or trailers

Motor vehicles or trailers according to type; Parts or accessories thereof not otherwise provided for

- 199/00 Motor vehicles or trailers predominantly for carrying passengers
- 201/00 Motor vehicles or trailers predominantly for transporting loads
- 203/00 Motor vehicles or trailers predominantly for transporting loads and modified to facilitate loading, consolidating the load, or unloading
- 205/00 Tractors
- 207/00 Motor vehicles characterised by the driver not being seated
- 209/00 Tractor-trailer combinations; Road trains
- 211/00 Endless track vehicles
- 213/00 Vehicles characterised by having other propulsion or other ground-engaging means than wheels and/or endless track

215/00 Trailers with driven ground wheels or the like
217/00 Vehicles characterised by the arrangement or number
of the wheels, e.g. four wheels in diamond pattern
219/00 Vehicles adapted to special use
221/00 Motor vehicles or trailers not otherwise provided for

223/00 Designing, manufacturing, assembling, cleaning,
maintaining, or repairing motor vehicles or trailers
and not otherwise provided for

Arrangement or mounting of propulsion units in motor vehicles

(elastic mountings per se F 06 f; propulsion units per se in the relevant classes)

- ÷ 1/00 Arrangements or mounting of electrical propulsion installations (electric transmission arrangements 17/12)
 - 1/02 . comprising more than one electric motor
 - 1/04 . of the electric storage means for propulsion (for auxiliary purposes 195/02)
 - 1/06 . of current collecting means, e.g. poles
- ÷ 3/00 Arrangements or mounting of steam or gaseous pressure propulsion units (gaseous pressure transmission arrangement 17/10)
 - 3/02 . of piston type
 - 3/04 . of turbine type
- ÷ 5/00 Arrangement or mounting of internal combustion or jet propulsion units
 - 5/02 . with the motor main axis, e.g. crankshaft axis, substantially in or parallel to the longitudinal centre line of the vehicle
 - 5/04 . with the motor main axis, e.g. crankshaft axis, transversely to the longitudinal centre line of the vehicle
 - 5/06 . . with the motor main axis substantially vertical
 - 5/08 . comprising more than one motor
 - 5/10 . providing for ready detachment of motor
 - 5/12 . Arrangement of motor supports
- ÷ 7/00 Disposition of motor in or adjacent to traction wheel (takes precedence over 1/00 to 5/00)

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/ 9/00 Arrangement or mounting of propulsion units not provided for in one of the previous main groups

9/02 . of spring motor

9/04 . of flywheel-motor

Vehicle modifications in connection with cooling, air intake, gas exhaust, or fuel supply of propulsion units

/ 11/00 Vehicle modifications to facilitate cooling of propulsion units (heating the interior space 169/00; radiator constructions for internal combustion engines per se F 02 f)

11/02 . with liquid cooling

11/04 . . arrangement or mounting of radiators, radiator shutters, or radiator blinds

11/06 . with air cooling

11/08 . Air inlets for cooling; Shutters or blinds therefor

/ 13/00 Vehicle modifications in connection with combustion air intake or gas exhaust of propulsion units (forming part of the engine F 02 f)

13/02 . concerning intake

13/04 . concerning exhaust (construction of exhaust silencers for internal combustion engines per se F 02 f; extensions for melting snow on roads E 01 h)

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

/ 15/00 Vehicle modifications in connection with fuel supply of combustion engines (shape or construction of tanks per se B 65 d)

15/02 . concerning liquid fuel tanks or conduits

15/04 . . concerning tank inlets

15/06 . . concerning fuel reserve systems

15/08 . concerning gas tanks or conduits

15/10 . concerning gas producing plants

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Transmissions (torque transmitting axles 99/12; combined transmission and steering gear for steering non-deflectable wheels 55/00; transmission elements per se in the relevant classes)

- / 17/00 Transmissions (transmission control 23/00)
- 17/02 . characterised by arrangement, location, or type of clutch
 - 17/04 . characterised by arrangement, location, or type of gearing
 - 17/06 . . of change-speed gearing (17/10 to 17/14 take precedence)
 - 17/08 . . . of mechanical type
 - 17/10 . . of fluid gearing (of fluid clutches 17/02)
 - 17/12 . . of electric gearing (of electrically actuated clutches 17/02)
 - 17/14 . . the motor of fluid or electric gearing being disposed in or adjacent to traction wheel (7/00 takes precedence)
 - 17/16 . . of differential gearing
 - 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 . . arrangements of mountings for shafting
 - 17/26 . characterised by arrangement, location, or type of free-wheel device
 - 17/28 . characterised by arrangement, location, or type of power take-off
 - 17/30 . the driven ground wheel or wheels being steerable

- 17/32 . the driven ground wheel being rockable about a horizontal pivot
- 17/34 . for driving both front and rear wheels
- 17/36 . for driving tandem wheels
- / 19/00 Change-speed gearing control devices specially adapted or arranged for use in motor vehicles (combined with control of supply of energy from propulsion unit to gearing 21/00)
- 19/02 . Initiating means (control levers in general G 05 g; mountings thereof on gear housings in general F 06 h)
- 19/04 . . floor-mounted
- 19/06 . . mounted on steering column or the like
- 19/08 . . dashboard-mounted
- 19/10 . Transmitting means between initiating means and gearing, e.g. power assisted
- 19/12 . . mechanical
- 19/14 . . fluid
- 19/16 . . electrical
- / 21/00 Control of change-speed gearing combined with control of supply of energy from propulsion unit to gearing, e.g. fuel supply or clutch
- 21/02 . the gearing being stepped
- 21/04 . . with interruption of the drive
- 21/06 . . without interruption of the drive
- 21/08 . the gearing being infinitely variable
- 21/10 . . of mechanical type
- 21/12 . . of fluid type
- 21/14 . . of electric type, e.g. electro-magnetic

/ 23/00 Control of transmissions or parts thereof not otherwise provided for (conjoint control devices for vehicle drive 61/00)

23/02 . for main transmission clutches

23/04 . for differential gearing

23/06 . for free-wheel devices

23/08 . for changing number of driven wheels

/ 25/00 Drives of auxiliary or external machines or devices from the engine, transmission or other parts of the vehicle (driving tyre-inflating pumps B 62 g; driving engine-auxiliaries F 02); Controls therefor

25/02 . directly from an engine shaft

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

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

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

25/10 . from oscillating movements due to vehicle running motion, e.g. suspension movement

Brakes specially adapted or arranged for use in motor vehicles or trailers (brakes per se F 06 d)-----

/ 27/00 Arrangements or adaptations of braking elements, i.e. of those parts where braking effect occurs

27/02 . by retarding wheels

27/04 . . acting directly on tread

27/06 . . acting otherwise than on tread, e.g. employing rim, drum, disc, or transmission

27/08 . . using fluid or powdered medium

27/10 . . by utilising wheel movement for accumulating energy, e.g. driving air compressors (using propulsion unit as braking means in the relevant class)

- 27/12 . otherwise than by retarding wheels, e.g. jet action
- 27/14 . . directly on road (portable devices, e.g. chocks 35/00)
- 27/16 . . by increasing air resistance, e.g. flaps
- + 29/00 Arrangements or adaptations of brake-action initiating means (for intermittent braking 33/06)
 - 29/02 . for personal initiation
 - 29/04 . . foot actuated
 - 29/06 . . . Arrangement or location of pedal
 - 29/08 . . hand actuated
 - 29/10 . . . Arrangement or location of hand control
 - 29/12 . . characterised by actuation by other person than driver
 - 29/14 . for automatic initiation or for initiation not subjected to will of driver or passenger
 - 29/16 . . operated by collapse of driver
 - 29/18 . . operated by remote control, i.e. initiating means not mounted on vehicle
 - 29/20 . . specially for trailers, e.g. in case of uncoupling or trailer pushing tractor
- + 31/00 Arrangements or adaptations of devices for transmitting braking action from initiating means to brakes
 - 31/02 . without power-amplification or where power-amplification is irrelevant
 - 31/04 . . transmitting mechanically
 - 31/06 . . transmitting by fluid means
 - 31/08 . . . Arrangement or location of fluid supply reservoir or of master control e.g. master cylinder
 - 31/10 . . specially adapted for steerable wheels

- 31/12 . . having means for obtaining differential braking force, i.e. for different wheels
- 31/14 . . specially adapted for parking purposes
- 31/16 . peculiar to power-amplification i.e. power-assisted or power-driven (constructions thereof per se F 03)
- 31/18 . . Mechanical amplification
- 31/20 . . . Arrangement or location of power source e.g. spring or flywheel
- 31/22 . . Fluid amplification, e.g. hydraulically
- 31/24 . . . Arrangement or location of power source
- 31/26 . . . pneumatic
- 31/28 Arrangement or location of power source
- 31/30 . . Electric amplification
- + 33/00 Braking system arrangements for adjusting wheel braking-force during use to meet varying vehicular or road conditions, e.g. limiting or varying distribution of braking-force
 - 33/02 . deceleration
 - 33/04 . load, e.g. load distribution
 - 33/06 . wheel locking; Intermittent braking
 - 33/08 . negotiating bends
- + 35/00 Portable devices for preventing unwanted movement of vehicles, e.g. checks
- + 37/00 Arrangements or adaptations of braking devices not provided for in one of the previous main groups
- + 39/00 Vehicle modifications to facilitate cooling of brakes

Steering of motor vehicles or trailers

Note: Steering devices acting on ground-engaging wheels, endless tracks or the like and equally applicable to aircraft are classified in 41/00 and relevant subsequent groups (these groups take precedence over B 64 d)

- 41/00 Steering controls, i.e. means for initiating a change of direction of the vehicle
- 41/02 . vehicle-mounted
- 41/04 . . Hand wheels
- 41/06 . . . Rims, e.g. with heating means; Rim covers
- 41/08 . . . Spokes, e.g. resilient
- 41/10 . . . Hubs; Connecting hubs to steering columns, e.g. adjustable
- 41/12 . . Hand levers
- 41/14 . . . Tillers, i.e. hand levers operating on steering column
- 41/16 . . Steering columns
- 41/18 . . . yieldable, adjustable, or tiltable
- 41/20 . . . Connecting steering column to steering gear
- 41/22 . . Alternative steering control elements, e.g. for teaching purposes
- 41/24 . remote controlled, i.e. not mounted on the vehicle
- 41/26 . . mechanically, e.g. by a non-load-bearing guide (railways B 61)
- 41/28 . . non-mechanically
- 43/00 Steering gears (steering linkages 47/00; power assisted or power driven 45/00; for non-deflectable wheels 51/00; gearing in general F 06)

- 43/02 . mechanical
- 43/04 . . of worm type
- 43/06 . . . with screw and nut
- 43/08 using intermediate balls or the like
- 43/10 . . . with worm engaging a sector or roller gear
- 43/12 . . of rack and pinion type
- 43/14 . hydraulic
- 45/00 Power-assisted or power-driven steering (for non-deflectable wheels 51/00; fluid-pressure servomotors in general F 03)
- 45/02 . mechanical
- 45/04 . electrical
- 45/06 . fluid
- 45/08 . . Valve arrangement
- 45/10 . . characterised by type of power unit, e.g. piston and cylinder
- 47/00 Steering linkage; Stub axles and their mounting (power-assisted linkage 45/00; linkage in general F 06 h)
- 47/02 . for pivoted bogies
- 47/04 . . with more than one wheel
- 47/06 . for individually pivoted wheels, e.g. on king-pins
- 47/08 . . the pivotal axes being situated in a single plane transverse to the longitudinal centre line of the vehicle
- 47/10 . . . with single output steering gear
- 47/12 . . . with twin output steering gear

- 47/14 . . the pivotal axes being situated in more than one plane transverse to the longitudinal centre line of the vehicle, e.g. all-wheel steering
- 47/16 . Arrangement of linkage connections (pivots per se F 06 c)
- 47/18 . Steering knuckles; King-pins
- 47/20 . Links, e.g. track rods (means for adjusting camber, castor or toe-in 57/00)
- 49/00 Steering deflectable wheels not otherwise provided for (steering position indicators 55/02)
- 49/02 . combined with means for inwardly-inclining vehicle body in bends
- 51/00 Steering non-deflectable wheels; Steering endless tracks or the like
- 51/02 . by differentially driving ground-engaging elements on opposite vehicle sides
- 51/04 . . by means of separate power sources
- 51/06 . . by means of a single main power source
- 51/08 . . . utilising brakes or clutches as main steering effecting means
- 51/10 . . . utilising gearings with differential power outputs on opposite sides, e.g. twin-differential or epicyclic gears
- 51/12 utilising separate change-speed gearings
- 51/14 differential power outputs being effected by additional power supply to one side, e.g. power originating from secondary power source
- 51/16 the additional power supply being supplied mechanically
- 51/18 the additional power supply being supplied hydraulically

- 51/20 . Endless track steering having pivoted bogie carrying track (41/02 takes precedence)
- 51/22 . Endless track steering being effected by deflecting endless track rollers or the like
- 51/24 . Endless track steering specially adapted for vehicles having both steerable wheels and endless track
- 53/00 Steering specially adapted for trailers (combined traction and steering hitches 65/00)
- 53/02 . for centrally-pivoted axles
- 53/04 . for individually-pivoted wheels
- 53/06 . for backing a normally drawn trailer
- 55/00 Steering not otherwise provided for
- 55/02 . Steering position indicators; Steering aids
- 57/00 Means on vehicle for adjusting camber, castor, or toe-in

Vehicle drive control not otherwise provided for

- ≠ 59/00 Propulsion unit control devices specially adapted or arranged for use on motor vehicles (control devices forming part of propulsion unit in the relevant classes)
 - 59/02 . initiating means
 - 59/04 . means connecting initiating means to propulsion unit
 - 59/06 . adjusting of control devices (fittings for automatically controlling vehicle speed 157/00)
 - 59/08 . Safety devices, e.g. preventing fuel supply or ignition case of open doors, absence or incapacity of driver
- ≠ 61/00 Conjoint control devices for vehicle drive, i.e. one device controlling a plurality of differing functions (21/00 takes precedence)
 - 61/02 . restricted to two functions, e.g. clutch and brake

/ 63/00 Other control devices for vehicle drive

63/02 . other initiating means or elements

Connections between the vehicles of a vehicle train or of
like compound vehicle units

/ 65/00 Traction couplings; Hitches; Towing devices; Joints
for supply lines or the like (fifth wheel couplings
209/08)

65/02 . Bolt couplings; Shackle-type couplings

65/04 . Hook or hasp couplings

65/06 . Ball and socket hitches

65/08 . Couplings involving joints for supply lines or
electric circuits; Joints for supply lines or
electric circuits uniquely provided for trains

65/10 . Remote controlled couplings, e.g. for releasing

65/12 . Safety appliances preventing unwanted disengagement
of the train coupling

65/14 . Draw bars; Props therefor

65/16 . Accessories providing for towing service

65/18 . . Tow-ropes ; Towing rods; Towing bars; Hauling
chains

/ 67/00 Fittings to facilitate pushing (65/00 takes precedence;
combined backing and steering devices for normally
drawn trailers 53/06; bumpers 159/02)

/ 69/00 Gangways for articulated vehicles, e.g. of concertina
type

/ 71/00 Other connections (the connection being formed by the
load 219/42)

Suspension arrangements (stabilising vehicle body without
controlling suspension arrangements 121/00; automatic
indicating means for weight of load 167/00)

/ 73/00 Suspensions with rigid connection between axle and
frame

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- 73/02 . with continuous axle
- 73/04 . with divided axle
- ≠ 75/00 Resilient suspension for a single wheel (characterised by arrangement, location, or type of springs 83/00; pivoted suspension arms per se, attachment thereof to sprung part of the vehicle, or buffer means for limiting movement of arms 79/00 to 79/04)
 - 75.02 . with a single pivoted arm
 - 75/04 . . the arm being essentially transverse to the longitudinal axis of the vehicle
 - 75/06 . . . the arm being rigid
 - 75/08 the arm forming the axle housing
 - 75/10 . . . the arm itself being resilient, e.g. leaf spring
 - 75/12 . . the arm being essentially parallel to the longitudinal axis of the vehicle
 - 75/14 . . . the arm being rigid
 - 75/16 . . . the arm itself being resilient, e.g. leaf spring
 - 75/18 . with two or more pivoted arms, e.g. parallelogram
 - 75/20 . . all arms being rigid
 - 75/22 . . . a rigid arm forming the axle housing
 - 75/24 . . . a rigid arm being formed by the live axle
 - 75/26 . . . Means for maintaining substantially constant wheel camber during suspension movement
 - 75/28 . . at least one of the arms itself being resilient, e.g. leaf spring
- ≠ 77/00 Resilient suspension for a single set of tandem wheels
 - 77/02 . mounted on a single pivoted arm
 - 77/04 . with two or more pivoted arms, the movements of which are resiliently interrelated
 - 77/06 . . the arms turning on a common pivot

- / 79/00 Pivoted suspension arms; Accessories thereof (means for maintaining substantially constant wheel camber during suspension movement 75/26)
 - 79/02 . Attaching arms to sprung part of vehicle
 - 79/04 . Buffer means for limiting movement of arms
- / 81/00 Resilient suspension of a rigid axle or axle housing for two or more wheels
 - 81/02 . the axle or housing being pivotally mounted on the vehicle
 - 81/04 . the axle or housing not being pivotally mounted on the vehicle
- / 83/00 Resilient suspensions characterised by arrangement, location, or type of springs (single wheel suspension by pivoted arm resilient in itself 75/00; adjusting spring characteristic 89/00; springs per se F 06 f)
Note: The term "torsion bar" includes "torsion tube, or the like". The term "rubber" includes synthetic substitutes of a similar nature.
 - 83/02 . having leaf springs only
 - 83/04 . . arranged substantially parallel to the longitudinal axis of the vehicle
 - 83/06 . . arranged obliquely to the longitudinal axis of the vehicle
 - 83/08 . . arranged substantially transverse to the longitudinal axis of the vehicle
 - 83/10 . . Attaching to axle or sprung part of the vehicle
 - 83/12 . . . Attaching by links, pins, or bushes to sprung part of the vehicle
 - 83/14 . having helical, spiral, or coil springs only
 - 83/16 . . Attaching to axle or sprung part of the vehicle
 - 83/18 . having torsion bar springs only
 - 83/20 . . Attaching to axle or sprung part of the vehicle

- 83/22 . having rubber springs only
- 83/24 . . Attaching to axle or sprung part of the vehicle
- 83/26 . having fluid springs only
- 83/28 . . Attaching to axle or sprung part of the vehicle
- 83/30 . . having pressure fluid accumulator therefor, e.g.
accumulator arranged in vehicle frame
- 83/32 . having springs of different type
- 83/34 . . including leaf springs
- 83/36 . . . and helical, spiral, or coil springs
- 83/38 . . . and rubber springs
- 83/40 the rubber springs being attached to the axle
- 83/42 the rubber spring being attached to sprung
part of the vehicle
- 83/44 . . . and torsion bar springs
- 83/46 . . . and fluid springs
- 83/48 . . not including leaf springs
- 83/50 . . . having helical, spiral or coil springs and
torsion bar springs
- 83/52 . . . having helical, spiral or coil springs and rubber
springs
- 83/54 with rubber springs arranged within helical,
spiral or coil springs
- 83/56 . . . having helical, spiral or coil springs and fluid
springs
- 83/58 arranged coaxially
- 83/60 . . . having rubber springs and torsion bar springs
- 83/62 . . . having rubber springs and fluid springs
- 83/64 . . . having torsion bar springs and fluid springs

- ÷ 85/00 Resilient suspensions characterised by arrangement, location, or type of vibration dampers (adjusting damping effect 89/06; vibration dampers per se F 06 f)
 - 85/02 . having dampers absorbing energy, e.g. frictionally
 - 85/04 . . mechanically, e.g. having frictionally-engaging springs as damping elements
 - 85/06 . . of fluid type
 - 85/08 . . . hydraulic
 - 85/10 . . . pneumatic
 - 85/12 . . . quasi-fluid, i.e. having powdered medium
 - 85/14 . having dampers accumulating utilisable energy, e.g. compressing air
 - 85/16 . having dynamic absorber as main damping means, i.e. spring-mass system vibrating out of phase
 - 85/18 . . combined with energy absorbing means
- ÷ 87/00 Resilient suspensions characterised by arrangement, location, or type of combined spring and vibration damper, e.g. telescopic type
 - 87/02 . having mechanical spring
 - 87/04 . . and mechanical damper
 - 87/06 . . and fluid damper
 - 87/08 . having fluid spring
 - 87/10 . . and mechanical damper
 - 87/12 . . and fluid damper
- ÷ 89/00 Resilient suspensions having means for adjusting or regulating spring or vibration damper characteristics or distance between ground and sprung part of vehicle during use to meet varying vehicular or road conditions, e.g. due to speed or load
 - 89/02 . spring characteristics
 - 89/04 . . fluid spring characteristics

- 89/06 . dampers' characteristics
- 89/08 . . fluid dampers' characteristics
- 89/10 . . . varying fluid viscosity, e.g. electro-magnetically
- / 91/00 Interconnection systems for two or more resiliently suspended wheels in which upward movement of a wheel forces interconnected wheel to move downward and vice versa (77/00 and 81/02 take precedence)
 - 91/02 . mechanically interconnected
 - 91/04 . fluid interconnected
 - 91/06 . . hydraulically
 - 91/08 . . pneumatically
 - 91/10 . having additional means for stabilising position of vehicle body
- / 93/00 Interconnection systems for two or more resiliently suspended wheels for stabilising vehicle body with respect to acceleration, deceleration, or centrifugal forces, e.g. to counteract dipping or outward inclining (91/10 takes precedence)
 - 93/02 . permanently interconnected
 - 93/04 . . mechanically
 - 93/06 . . fluid
 - 93/08 . . characterised by use of gyroscopes
 - 93/10 . not permanently interconnected, e.g. operative only on acceleration, only on deceleration, or only at off-straight position of steering
- 95/00 Wheel suspensions with automatic means for sensing unevenness ahead of wheels and for moving wheels up or down in accordance therewith.
- / 97/00 Suspension arrangements not otherwise provided for

Axle units; Radius rods or distance members

- / 99/00 Axle units; Parts thereof (stub axles 47/00)
- 99/02 . Dead axles, i.e. not transmitting torque (axle housings 99/16)
- 99/04 . . straight
- 99/06 . . cranked
- 99/08 . . of closed hollow section
- 99/10 . . adjustable for varying track
- 99/12 . Torque transmitting axles (independent suspension aspects 75/00)
- 99/14 . . Half axles
- 99/16 . . Axle housings
- 99/18 . . Arrangement of bearings
- / 101/00 Radius rods, i.e. distance members

Understructures; Superstructures; Vehicle bodies

- / 103/00 Understructures, i.e. chassis frames (combined body and frame 105/00)
- 103/02 . built up essentially of longitudinally and transversally arranged members
- 103/04 . . having a single longitudinal member supporting transverse members
- 103/06 . of X-shaped or fork-shaped construction
- 103/08 . built up with interlaced cross members (Fachwerkrahmen)
- 103/10 . in which the main member is plate-like
- 103/12 . built up of readily detachable parts
- 103/14 . of adjustable length or width
- 103/16 . providing for fluid-tight compartments

- 103/18 . characterised by the vehicle type and not provided for in 103/02 to 103/16
- ✱ 105/00 Combined superstructure and frame, i.e. monocoque constructions (superstructure sub-units 107/00)
- ✱ 107/00 Superstructure sub-units; Parts or details thereof and not otherwise provided for
 - 107/02 . Side panels
 - 107/04 . Door pillars
 - 107/06 . Fixed roofs
 - 107/08 . Front or rear portions
 - 107/10 . . Bonnets or lids
 - 107/12 . . . Parts or details thereof
 - 107/14 . . Dashboards as superstructure sub-unit (other dashboard aspects 193/00)
 - 107/16 . . Mudguards or wings; Wheel cover panels (equipped with means for freeing wheels of tyres from foreign matter 139/06)
 - 107/18 . . . Parts or details thereof, e.g. mudguard flaps
 - 107/20 . Floors or bottom sub-units
 - 107/22 . Running boards; Steps or the like
 - 107/24 . . Retractable steps
 - 107/26 . . with provisions for shoe scraping
- ✱ 109/00 Connections between superstructure sub-units
 - 109/02 . rigid
 - 109/04 . resilient
 - 109/06 . readily releasable

- / 111/00 Elements for body-finishing, identifying or decorating; Arrangements or adaptations for advertising purposes
 - 111/02 . Trim mouldings; Lodges; Wall liners; Roof liners
 - 111/04 . Ornamental or guard strips; Ornamental inscriptive devices
 - 111/06 . Sealing strips
 - 111/08 . Sound insulating elements
 - 111/10 . Registration, licensing, or like devices
- / 113/00 Superstructures characterised by material thereof
 - 113/02 . predominantly of wood
 - 113/04 . predominantly of synthetic material (making car bodies from plastics B 29 d)
- / 115/00 Superstructures for passenger vehicles (for special use 219/00)
 - 115/02 . for carrying large numbers of passengers, e.g. omnibus
 - 115/04 . with more than one deck
- / 117/00 Superstructures for load carrying vehicles (in which a load carrying element is movable 203/00)
 - 117/02 . Platforms; Open loading compartments
 - 117/04 . Enclosed load compartments
 - 117/06 . Drivers' cabs
 - 117/08 . adjustable
- / 119/00 Vehicle bodies characterised by stream-lining
 - 119/02 . Stream-lining the undersurfaces

- ✚ 121/00 Stablising vehicle bodies without controlling suspension arrangements
 - 121/02 . by aerodynamic means
 - 121/04 . by means of movable masses
 - 121/06 . . using gyroscopes
- ✚ 123/00 Vehicle bodies not otherwise provided for
 - Arrangements or adaptations of windows, windscreens, non-fixed roofs, doors, or similar entrances or exits, specially for motor vehicles or trailers; Protective coverings
- ✚ 125/00 Windows; Windscreens (operating mechanisms E 05 f; air curtain instead of window 133/00)
 - 125/02 . arranged at the vehicle front
 - 125/04 . . adjustable
 - 125/06 . . . comprising more than one pane
 - 125/08 . arranged at vehicle sides
 - 125/10 . . fixedly mounted
 - 125/12 . . adjustable
 - 125/14 . . . with pivotal or rotary movement
 - 125/16 . . . slidable
 - 125/18 . arranged at the vehicle rear
 - 125/20 . Accessories, e.g. wind deflectors, blinds (antiglare provisions 127/00)
- ✚ 127/00 Antiglare equipment or sun visors associated with windows or windscreens
 - 127/02 . adjustable in position
 - 127/04 . adjustable in transparency
 - 127/06 . utilising polarising effect

- / 129/00 Doors (window aspects 125/00)
 - 129/02 . arranged at the vehicle front
 - 129/04 . arranged at the vehicle sides
 - 129/06 . . slidable; foldable
 - 129/08 . . . of roller blind type
 - 129/10 . arranged at the vehicle rear (129/04 takes precedence)
 - 129/12 . . slidable; foldable
 - 129/14 . . . of roller blind type
- / 131/00 Non-fixed roofs or like shelters (window aspects 125/00; operating mechanisms E 05 f)
 - 131/02 . of sliding type
 - 131/04 . . with rigid plate-like element or elements
 - 131/06 . . with non-rigid element or elements
 - 131/08 . of non-sliding type
 - 131/10 . . readily detachable, e.g. top tarpaulins, frames or fastenings for tarpaulins (takes precedence over 131/12 to 131/16)
 - 131/12 . . foldable; Tensioning mechanisms therefor, e.g. struts
 - 131/14 . . . with a plurality of plate-like elements
 - 131/16 . . non-foldable
 - 131/18 . Locking or sealing arrangements
 - 131/20 . Vehicle storage compartments for roof parts
 - 131/22 . Wind deflectors for open roofs
 - 131/24 . Protective shelters for driver's space
- / 133/00 Devices not provided for in one of the previous main groups

- 133/02 . Entrance or exit closures other than windows, doors, or in roof, e.g. emergency escape closures in vehicle bottom
- 133/04 . Air curtains(in general F 24 f)
- 133/06 . Protective coverings for stationary vehicles
- + 135/00 Arrangement of optical viewing devices (cleaning 137/00)
- 135/02 . Rear view mirror assemblies (periscope assemblies 135/10)
- 135/04 . . mounted inside vehicle body
- 135/06 . . mounted on the vehicle body exterior
- 135/08 . . involving special optical features, e.g. avoiding blind spots
- 135/10 . Front-view mirror assemblies; Periscope assemblies
- 135/12 . Mirror assemblies combined with other articles, e.g. clocks (cleaning 137/00)

Vehicle fittings for vehicle-cleaning purposes

(provisions for shoe scraping on running boards or steps 107/26)

Note: The term "wipers" in this elaboration includes mechanical equivalents, e.g. scrapers.

- + 137/00 Vehicle fittings for cleaning windcreens, windows or optical devices, e.g. demisting or defrosting (vehicle heaters modified for demisting or defrosting 169/00)
- 137/02 . Wipers
- 137/04 . . characterised by the drive (producing other than swinging movement of wiper blades 137/42)
- 137/06 . . . electrically driven
- 137/08 . . . pneumatically driven
- 137/10 . . . hydraulically driven

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- 137/12 . . . personally driven
- 137/14 . . . means transmitting the drive
- 137/16 mechanically
- 137/18 cable devices; flexible shafts
- 137/20 rotary cams
- 137/22 rotary cranks
- 137/24 toothed gearing
- 137/26 . . characterised by a plurality of wipers
(137/04 takes precedence)
- 137/28 . . . arranged both outside and inside
- 137/30 . . characterised by constructional features of
wiper blade arms
- 137/32 . . . Wiper arms: Mountings therefor
- 137/34 variable length arms
- 137/36 . . . Wiper blades
- 137/38 . . . Connections between blades and arms
- 137/40 resilient
- 137/42 . . the wiper blades having other than swinging
movement, e.g. rotary
- 137/44 . using liquid; Windscreen washers
- 137/46 . . Liquid supply therefor
- 137/48 . . . Arrangement of reservoir
- 137/50 . . . Arrangement of nozzles (nozzles per se B 05)
- 137/52 . using gas, e.g. hot air
- 137/54 . specially adapted for cleaning other parts or devices
than front windows or windcreens

- 137/56 . . for rear windows
- 137/58 . . for signalling devices, e.g. reflectors
- + 139/00 Other vehicle fittings for cleaning
- 139/02 . . for cleaning vehicle interior, e.g. built-in vacuum cleaners
- 139/04 . . for cleaning vehicle exterior
- 139/06 . . for freeing wheels or tyres from foreign matter, e.g. wheel scrapers

Arrangements or adaptations of signal or lighting devices specially with respect to motor vehicles or trailers

Note: This part of the elaborations also includes electric signalling or lighting circuits as far as specially arranged in motor vehicles or trailers. It also includes arrangements or adaptations of lighting switches or signal initiating means (electric switches per se H 02 c)

- + 141/00 Arrangements or adaptations of optical signalling or lighting devices (for lighting vehicle interior 143/00; lighting in general F 21)
- 141/02 . the devices being primarily intended to illuminate the way ahead or to illuminate other areas of road or environments
- 141/04 . . the devices being headlights
- 141/06 . . . adjustable, e.g. remotely controlled from inside vehicle
- 141/08 automatically
- 141/10 due to vehicle inclination, e.g. due to load distribution
- 141/12 due to steering position
- 141/14 . . . having dimming means
- 141/16 . . . illuminating the way asymmetrically

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- 141/18 . . . additional front lights
- 141/20 Fog lights
- 141/22 . . for reverse drive
- 141/24 . . for lighting other areas than only the way ahead
- 141/26 . the devices being primarily intended to indicate the vehicle, or parts thereof, or to give signals, to other road users
- 141/28 . . for indicating front of vehicle
- 141/30 . . for indicating rear of vehicle, e.g. by means of reflecting surfaces
- 141/32 . . for indicating vehicle sides
- 141/34 . . for indicating change of drive direction (141/22 takes precedence)
- 141/36 . . . utilising movable members, e.g. arms with or without built-in flashing lamps
- 141/38 . . . utilising immovably mounted light sources, e.g. fixed flashing lamps
- 141/40 . . . having automatic return to inoperative position
- 141/42 due to steering wheel position
- 141/44 . . for indicating braking action
- 141/46 . . for giving flashing caution signals during drive, other than signalling change of direction, e.g. flashing the headlights
- 141/48 . . for parking purposes
- 141/50 . . for indicating other intentions or conditions, e.g. request for waiting or overtaking
- 141/52 . . . for indicating emergencies
- 141/54 . . . for indicating speed

- 141/56 . . for illuminating registrations or the like
- + 143/00 Arrangements or adaptations of lighting devices for vehicle interior (lighting in general F 21)
- 143/02 . for lighting passenger or driving compartment
- 143/04 . . for dashboard
- 143/06 . for lighting compartments other than passenger or driver space, e.g. luggage or engine compartment
- + 145/00 Arrangements or adaptations of acoustic signal devices (acoustic signal devices in general G 08 f)
- + 147/00 Portable emergency signal devices to be placed on roadways or vehicles
- 147/02 . to be attached on overhanging loads or extending parts of vehicle
- + 149/00 Arrangements or adaptations of signal devices not provided for in one of the previous main groups

Miscellaneous safeguarding appliances

- + 151/00 Arrangements or fittings on vehicles for preventing injuries to persons in case of accidents or other traffic risks, e.g. in case of high deceleration (hand grips 175/02)

Note: The term "persons" includes other living beings.

- 151/02 . protecting driver or passenger
- 151/04 . . Soft fittings lining vehicle interior
- 151/06 . . Shields between persons and glass
- 151/08 . . . brought in operative position by high deceleration of vehicle
- 151/10 . . preventing accidental displacement of persons; Fitting safety belts or harnesses in vehicles (safety belts or harnesses per se A 62 b)
- 151/12 . . protecting against attacks

- 151/14 . protecting persons not on vehicle, e.g. pedestrians
- / 153/00 Vehicle fittings for preventing or indicating
unauthorised use or theft of vehicle (locks per se
E 05 b)
- 153/02 . operating on steering mechanism
- 153/04 . preventing use of engine (engine fittings per se
F 02)
- 153/06 . operating on transmission
- 153/08 . operating on brake
- 153/10 . actuating a signalling device
- / 155/00 Means for increasing wheel adhesion (road surface
construction E 01 c; wheels having grip-increasing
elements B 62 f, g)
- 155/02 . Vehicle fittings for scattering or dispensing
material in front of ground-engaging elements
- 155/04 . . the material being granular, e.g. sand (sanding
road surfaces in general E 01 c)
- 155/06 . . . the dispensing being effected by utilising gas
pressure or flow, e.g. compressed air,
exhaust gas
- 155/08 . . the material being sheet-like or web-like
- / 157/00 Vehicle fittings for automatically controlling, e.g.
limiting, vehicle speed (engine control per se F 02;
speedometers per se G 01 p)
- / 159/00 Wheel guards, radiator guards, obstruction removers,
fittings damping bouncing force at collisions
(mudguards 107/16)
- 159/02 . Bumpers, i.e. front or rear guards
- 159/04 . . the guard itself being built-up of more than
one rigid part
- 159/06 . . elastically mounted

- 159/08 . . the guard itself having at least one resilient part-
- 159/10 . . . the resilient part being inflatable
- 161/00 Fittings for identifying vehicles in case of collision or for marking or recording collision areas
- + 163/00 Arrangements or adaptations of fire-extinguishing apparatus (apparatus per se A 62 c)
- + 165/00 Safeguarding appliances for motor vehicles or trailers and not otherwise provided for
-
- + 167/00 Arrangements or adaptations of weighing-machines for automatically indicating weight of load (weighing machines per se G 01 g)
- Arrangements or adaptations of air-treating devices specially for passenger or goods spaces of motor vehicles or trailers
- + 169/00 Heating or ventilating devices (ventilating solely by opening windows, doors, roof parts, or the like 125/00, 133/00; heating or ventilating devices having other air treatment and the other treatment being relevant 171/00)
- 169/02 . the heat being derived from the motor
- 169/04 . . from motor cooling liquid
- 169/06 . . . directly from motor main radiator
- 169/08 . . . from other radiator than motor main radiator
- 169/10 the other radiator being situated in a duct capable of being connected to atmosphere outside vehicle
- 169/12 using an air blower
- 169/14 . . otherwise than the motor cooling liquid
- 169/16 . . . the air being heated by direct contact with the motor, e.g. air cooled motor

- 169/18 . . . the air being heated from the motor exhaust gases
- 169/20 using an intermediate heat transferring medium
- 169/22 . the heat being derived other than from the motor
- 169/24 . devices purely for ventilating or where the heating is irrelevant
- 169/26 . . ventilating opening in vehicle exterior; ducts for conveying ventilating air
- 169/28 . . . the openings being situated directly in front of windscreen
- 169/30 . . . Air scoops
- / 171/00 Other air-treating devices (refrigerated goods vehicles 219/20)
- 171/02 . moistening
- 171/04 . cooling
- 171/06 . filtering
- Arrangements or adaptations of seats or passenger fittings not otherwise provided for specially for motor vehicles or trailers
- / 173/00 Arrangements or adaptations of seats
- 173/02 . characterised by the arrangement thereof in vehicles
- 173/04 . characterised by adjustability
- 173/06 . . to permit easy access
- 173/08 . . having adjustable back rest, horizontal part or arm rest
- 173/10 . . slidably secured in vehicle

- 173/12 . . convertible, e.g. into bed or for storage space
- 173/14 . . adapted for particular purposes, e.g. for children's use
- / 175/00 Arrangements or adaptations of other passenger fittings and not otherwise provided for (of radio sets, television sets, telephones or the like 185/02)
- 175/02 . . of hand grips
- 175/04 . . of floor mats
- 175/06 . . of footrests (floors 107/20)
- 175/08 . . of receptacles for refuse, e.g. ash-trays (ash-trays per se A 24 f)
- 175/10 . . of receptacles for food or beverage, e.g. refrigerated (picnic sets A45 f)
- 175/12 . . of receptacles for cigarettes or the like (receptacles for cigarettes or the like A24 f)
- 175/14 . . electrically heated lighters
- 175/16 . . of cooking or boiling devices (travelling devices per se A 47 j, F 24 c)
- 175/18 . . of drinking or washing water dispensing devices
- Miscellaneous arrangements for stowing, holding, or mounting articles in or on motor vehicles or trailers
- 177/00 Spare wheel stowing, holding, or mounting arrangements
- 177/02 . . external to the vehicle body
- 177/04 . . attached beneath the vehicle body
- 177/06 . . within the vehicle body
- 177/08 . . and arranged substantially vertical
- 177/10 . . and arranged substantially horizontal

- / 179/00 Compartments within vehicle body primarily intended or sufficiently spacious for trunks, suit-cases, or the like (primarily intended for stowing loads in load transporting vehicles 201/00)
 - 179/02 . arranged at front of vehicle
 - 179/04 . arranged at rear of vehicle
- / 181/00 Stowing or holding appliances inside of vehicle primarily intended for passenger's property smaller than suit-cases, e.g. passenger's apparel, travelling articles, or maps (for radio sets, television sets, telephones, or the like, mounting of cameras operative during drive, tools, or spare parts 185/00; for receptacles for refuse, food, beverages, cigarettes 175/00)
 - 181/02 . in a separate luggage compartment
 - 181/04 . in driver or passenger space
 - 181/06 . . on or below dashboard
 - 181/08 . Disposition of racks, clips, or the like
- / 183/00 Supplementary fittings on vehicle exterior for carrying luggage or the like
 - 183/02 . at the sides, e.g. on running board
 - 183/04 . on the vehicle roof
 - 183/06 . at vehicle front or rear
 - 183/08 . specially adapted for sports gear (vehicles specially adapted for vehicles carrying aeroplanes 219/06, for carrying boats 219/10)
 - 183/10 . . for cycles
 - 183/12 . . for skis
- / 185/00 Arrangements for holding or mounting articles and not otherwise provided for
 - 185/02 . for radio sets, television sets, telephones, or the like; Arrangement of controls thereof (of aerials H 01 q)

185/04 . mounting of cameras operative during drive;
Arrangement of controls thereof relative to the
vehicle (cameras per se G 03 b)

185/06 . for tools or spare parts

Arrangements or devices for supporting, lifting, or
manoeuvring the vehicle

+ 187/00 Ground-engaging vehicle fittings for supporting,
lifting, or manoeuvring the vehicle wholly or in
part, e.g. built-in jacks (lifting devices per se
B 66 f; supports per se F 06 m)

187/02 . . for only lifting or supporting

187/04 . . mechanically

187/06 . . . of screw and nut type

187/08 the screw axis being substantially vertical

187/10 . . by fluid pressure

187/12 . . . of telescopic type

187/14 . for both lifting and manoeuvring

187/16 . . operating on only one end of vehicle

187/18 . . . mechanically

187/20 . . . with fluid pressure lift

187/22 . Means for attaching lifting or supporting devices
to vehicles (for separate devices 189/00)

+ 189/00 Vehicle modifications for receiving separate lifting
or supporting devices

Arrangements or adaptations of instruments specially for
motor vehicles or trailers; Dashboards

+ 191/00 Arrangements or adaptations of instrument (arranged
on dashboard 193/04)

+ 193/00 Dashboards (as superstructure sub-unit 107/14)

193/02 . of instruments (devices for lighting dashboards
143/04)

193/04 . Relative arrangement of fittings on dashboard
(of instruments 193/02)

193/06 . . of controls, e.g. control knobs

÷ 195/00 Arrangements or adaptations of electric components
specially for motor vehicles or trailers and not
otherwise provided for

195/02 . of electric battery (of batteries for propelling
electrically driven vehicles 1/04).

195/04 . carrying off electrostatic charges

÷ 197/00 Arrangements or adaptations of lubricating systems
or devices specially for motor vehicles or trailers

197/02 . systems, e.g. central lubrication systems

197/04 . other devices

Motor vehicles or trailers according to type; Parts or
accessories thereof not otherwise provided for (frames for
vehicles of special type 103/18)

÷ 199/00 Motor vehicles or trailers predominantly for
carrying passengers

199/02 . for large numbers of passengers, e.g. omnibus

÷ 201/00 Motor vehicles or trailers predominantly for
transporting loads (adaptation for special loads
219/00; modified to facilitate loading,
consolidating the load, or unloading 203/00)

201/02 . Motor vehicles

201/04 . Trailers

÷ 203/00 Motor vehicles or trailers predominantly for
transporting loads and modified to facilitate
loading, consolidating the load, or unloading
(agricultural pick-up mechanisms A 01 d)

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- 203/02 . with parallel up and down movement of load transporting element (masted lift truck aspects B 66 f)
- 203/04 . with a tipping movement of load transporting element
- 203/06 . . with mechanical gearing only
- 203/08 . . . with relative displacement of the wheel axles
- 203/10 . . . with screw and nut
- 203/12 . . . with toothed gears, wheels, or sectors; with links, cams and rollers, or the like
- 203/14 . . . with cables, chains, or the like
- 203/16 . . with fluid operated mechanisms
- 203/18 . . . with relative displacement of the wheel axles
- 203/20 . . . with toothed gears, wheels, or sectors; with links, cams, and rollers, or the like
- 203/22 . . . with cables, chains, or the like
- 203/24 . . . using the weight of the load
- 203/26 . . means for controlling movement of tail-boards
- 203/28 . . Tipping body constructions
- 203/30 . utilising endless chains or belts thereon
- 203/32 . . forming the main load transporting element or part thereof
- 203/34 . utilising screw conveyers thereon
- 203/36 . . mounted in the load transporting element
- 203/38 . having a loading platform thereon raising to the level of the load transporting element
- 203/40 . . carried in vertical guides

- 203/42 . utilising pivoted arms raisable above the load transporting element (load-engaging elements B66)
- 203/44 . . loading from in front of the vehicle
- 203/46 . utilising rollers in the load transporting element
- 203/48 . utilising cranes (crane aspects B 66 c)
- 203/50 . the load transporting element having bottom discharging openings
- 203/52 . utilising vibratory effect
- 203/54 . the load transporting element being readily removable (container aspects B65)
- + 205/00 Tractors (of walk-type 207/04; endless track features 211/00)
 - 205/02 . modified to take lifting devices
 - 205/04 . modified to take pushing devices
 - 205/06 . adapted for multi-purpose use
 - 205/08 . having means for preventing overturning or tipping
- + 207/00 Motor vehicles characterised by the driver not being seated
 - 207/02 . the driver standing in the vehicle
 - 207/04 . the driver walking
 - 207/06 . . uniaxle walk-type tractors
- 209/00 Tractor-trailer combinations ; Road trains (traction couplings other than fifth wheel couplings 65/00),
 - 209/02 . comprising a uniaxle tractor unit and a uniaxle trailer unit
 - 209/04 . comprising a vehicle carrying an essential part of the other vehicle's load by having supporting means for the front or rear part of the other vehicle
 - 209/06 . . Semi-trailers

- 209/08 . . Fifth wheel traction couplings
- 209/10 . . . with means for preventing accidental uncoupling
- 209/12 . . . engaging automatically
- 211/00 Endless track vehicles (steering aspects 51/00)
- 211/02 . with tracks and additional ground wheels
- 211/04 . with tracks and alternative ground wheels, e.g.
changeable from endless track vehicle into wheeled
vehicle and vice versa
- 211/06 . with tracks without ground wheels
- 211/08 . Endless track units; Parts thereof
- 211/10 . . Bogies; Frames (track tensioning means 211/30)
- 211/12 . . Arrangement, location, or adaptation of driving
sprockets
- 211/14 . . Arrangement, location, or adaptation of rollers
- 211/16 . . . resiliently mounted
- 211/18 . . Tracks
- 211/20 . . . of articulated type, e.g. chains
- 211/22 of locked girder type, i.e. for preventing
back-flexing
- 211/24 . . . of continuously flexible type, e.g. rubber belts
- 211/26 . . . Ground-engaging parts or elements
- 211/28 detachable
- 211/30 . . Track tensioning means
- + 213/00 Vehicles characterised by having other propulsion or
other ground-engaging means than wheels and/or endless
track (sledges B 62 b; motor sledges B 62 n)
- 213/02 . with ground-engaging propulsion means, e.g. walking
members

- 213/04 . having other than ground-engaging propulsion means, e.g. having propellers (arrangement of jet propulsion units 5/00)
- / 215/00 Trailers with driven ground wheels or the like
 - 215/02 . driven from external propulsion unit
 - 215/04 . driven from propulsion unit on trailer
- / 217/00 Vehicles characterised by the arrangement or number of the wheels, e.g. four wheels in diamond pattern (single track vehicles with or without auxiliary wheels B 62 k)
 - 217/02 . with two road wheels in tandem on the longitudinal centre line of the vehicle
 - 217/04 . . with two other wheels which are coaxial
 - 217/06 . with only three wheels
 - 217/08 . . with single front wheel
 - 217/10 . with more than four wheels
 - 217/12 . with variable number of ground-engaging wheels, e.g. with some wheels arranged higher than others, or with retractable wheels (for manoeuvring purposes only 187/00)
- / 219/00 Vehicles adapted to special use (ambulance aspects A 61 g 3/00; fire tenders A 62 c 21/00; vehicles specially adapted for collecting refuse B 65 f; armoured cars F 07 j)
 - 219/02 . usable as shop or cafeteria; for display; for distribution of bottled liquids
 - 219/04 . for transporting animals
 - 219/06 . for carrying vehicles, e.g. other road vehicles or aeroplanes
 - 219/08 . . of double-deck construction
 - 219/10 . . for carrying boats
 - 219/12 . for salvaging damaged motor vehicles or trailers

- 219/14 . for servicing maintenance; with installed workshop
- 219/16 . for carrying mixed concretes, e.g. having rotatable drums
- 219/18 . carrying searchlights
- 219/20 . Refrigerated goods vehicles (air treatment of goods space 169/00 to 171/00)
- 219/22 . Tank vehicles (tank aspects B 65)
- 219/24 . . compartmented
- 219/26 . Hearses
- 219/28 . Crane vehicles (self-loaders with cranes 203/48; crane aspects B 66 c)
- 219/30 . Spraying vehicles
- 219/32 . Caravans, i.e. vehicles with living accommodation
- 219/34 . . foldable or able to be readily disassembled
- 219/36 . . Arrangement of living accommodation
- 219/38 . . . Toilet arrangements
- 219/40 . . . Sleeping arrangements
- 219/42 . for carrying long loads, e.g. wheeled load supporting elements
- 219/44 . convertible from one use to a different one (from aircraft to land vehicle B 64 c)
- 219/46 . . from road to rails
- 219/48 . . from land to water
- + 221/00 Motor vehicles or trailers not otherwise provided for
- 221/02 . Motor vehicles
- 221/04 . . Component parts or accessories
- 221/06 . Trailers
- 221/08 . . Component parts or accessories

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7 223/00 Designing, manufacturing, assembling, cleaning,
maintaining, or repairing motor vehicles or
trailers and not otherwise provided for
