## CPC COOPERATIVE PATENT CLASSIFICATION

# B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

#### **TRANSPORTING**

#### B62 LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS

**B62D** MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B 69/00; wheels, castors, axles, increasing wheel adhesion B60B; vehicle tyres, tyre inflation or tyre changing <u>B60C</u>; connections between vehicles of a train or the like B60D; vehicles for use on rail and road, amphibious or convertible vehicles B60F; suspension arrangements B60G; heating, cooling, ventilating or other air treating devices B60H; windows, windscreens, non-fixed roofs, doors or similar devices, protective coverings for vehicles not in use <u>B60J</u>; propulsion plant arrangements, auxiliary drives, transmissions, controls, instrumentation or dashboards B60K; electric equipment or propulsion of electricallypropelled vehicles <u>B60L</u>; power supply for electrically-propelled vehicles <u>B60M</u>; passenger accommodation not otherwise provided for B60N; adaptations for load transportation or to carry special loads or objects B60P; arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q; vehicles, vehicle fittings or vehicle parts not otherwise provided for <u>B60R</u>; servicing, cleaning, repairing, supporting, lifting, or manoeuvring, not otherwise provided for, B60S; brake arrangements, brake control systems or parts thereof <u>B60T</u>; air-cushion vehicles <u>B60V</u>; motor-cycles, accessories therefor <u>B</u>62J, B62K; testing of vehicles **G01M**)

### **NOTE**

In this subclass, the following terms are used with the meanings indicated:

- "vehicles" include motor vehicles and trailers;
- "trailers" include forecars or sidecars.

#### **WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B62D 25/13 covered by <u>B60J 1/20, B60R 13/07</u> B62D 25/22 covered by <u>B60R 3/00</u>

B62D 65/08 covered by B62D 101/00-B62D 137/00 covered by B62D 6/00 - B62D 6/00 - B62D 6/008

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Steering of motor vehicles or trailers		1/065	{Steering wheels with heating and
1/00	Steering controls, i.e. means for initiating a change of direction of the vehicle		ventilating means (heating and ventilation of steering wheel when connected to vehicle HVAC <u>B60H 1/00292</u> )}
1/02	<ul> <li>vehicle-mounted</li> </ul>	1/08	• • • Spokes, e.g. resilient (B62D 1/11 takes
1/04	Hand wheels		precedence)
1/043	• • { with a device allowing single-hand operation of the steering wheel }	1/10	• • Hubs; Connecting hubs to steering columns, e.g. adjustable (B62D 1/11 takes precedence)
1/046	• • • {Adaptations on rotatable parts of the steering wheel for accommodation of switches}	1/105	• • • {Non-rotatable hubs, e.g. the central part of the steering wheel not rotating}
1/06	Rims, e.g. with heating means; Rim covers (B62D 1/11 takes precedence)	1/11	e.g. by being yieldable or collapsible (padded linings associated with the steering wheel <u>B60R 21/05</u> ; shock absorbers using plastic deformation of members in general <u>F16F 7/12</u> )

1/10	II J. 1	2/102	(-l
1/12	Hand levers	3/123	{characterised by pressure yokes}
1/14	Tillers, i.e. hand levers operating on steering columns	3/126 3/14	<ul><li> {characterised by the rack}</li><li>. hydraulic</li></ul>
1/16	Steering columns	<b>=</b> 10.0	
1/163	{Part of the steering column replaced by	5/00	Power-assisted or power-driven steering (for
	flexible means, e.g. cable or belt}		non-deflectable wheels <u>B62D 11/00</u> ; fluid-pressure
1/166	• • • {Means changing the transfer ratio between		servomotors in general <u>F15B</u> )
	steering wheel and steering gear}	5/001	• {Mechanical components or aspects of steer-by-
1/18	• • yieldable or adjustable, e.g. tiltable (padded		wire systems, not otherwise provided for in this
	linings associated with the steering column		maingroup}
	B60R 21/05)	5/003	• • {Backup systems, e.g. for manual steering
			$(\underline{B62D \ 5/30} \text{ takes precedence})$
	NOTE	5/005	• • {means for generating torque on steering wheel or
	Group B62D 1/181 takes precedence over		input member, e.g. feedback}
	groups <u>B62D 1/183</u> - <u>B62D 1/187</u> .	5/006	• • {power actuated}
1/101	24	5/008	• {Changing the transfer ratio between the steering
1/181	• • • with power actuated adjustment, e.g. with		wheel and the steering gear by variable supply of
1/102	position memory		energy, e.g. by using a superposition gear}
1/183	adjustable between in-use and out-of-use	5/02	• mechanical, e.g. using a power-take-off mechanism
1/104	positions, e.g. to improve access		for taking power from a rotating shaft of the vehicle
1/184	Mechanisms for locking columns at selected		and applying it to the steering gear
4 /4 0 =	positions	5/04	• electrical, e.g. using an electric servo-motor
1/185	adjustable by axial displacement, e.g.		connected to, or forming part of, the steering gear
	telescopically ( <u>B62D 1/183</u> , <u>B62D 1/187</u> ,	5/0403	• • {characterised by constructional features, e.g.
1/105	B62D 1/19 take precedence)		common housing for motor and gear box}
1/187	with tilt adjustment; with tilt and axial	5/0406	• • • {including housing for electronic control unit}
	adjustment ( <u>B62D 1/183</u> , <u>B62D 1/19</u> takes	5/0409	• • {Electric motor acting on the steering column}
1 /1 00	precedence)	5/0412	• • • {the axes of motor and steering column being
1/189	• • • • the entire column being tiltable as a unit		parallel}
1/19	incorporating energy-absorbing	5/0415	• • • { the axes being coaxial }
	arrangements, e.g. by being yieldable	5/0418	• • {Electric motor acting on road wheel carriers}
	or collapsible (shock absorbers using	5/0421	• • {Electric motor acting on or near steering gear}
	plastic deformation of members in general F16F 7/12)	5/0424	• • • {the axes of motor and final driven element of
1/102			steering gear, e.g. rack, being parallel}
1/192	Yieldable or collapsible columns	5/0427	• • • { the axes being coaxial }
1/195	• • • • { Yieldable supports for the steering	5/043	• • {characterised by clutch means between driving
1/107	column)		element, e.g. motor, and driven element, e.g.
1/197	• • • • {incorporating devices for preventing ingress of the steering column into the		steering column or steering gear}
	passengers space in case of accident}	5/0433	• • • {the clutch being of on-off type}
1/20	Connecting steering column to steering gear	5/0436	{the clutch being a controlled emergency
			clutch, e.g. for disconnecting at motor break-
1/22	Alternative steering-control elements, e.g. for teaching purposes		down}
1/24		5/0439	• • • {Controllable friction clutches ( <u>B62D 5/0436</u>
1/24	• not vehicle-mounted		takes precedence)}
1/26	• mechanical, e.g. by a non-load-bearing guide	5/0442	• • {Conversion of rotational into longitudinal
1/265	(railways <u>B61</u> )		movement}
1/265	• • • {especially adapted for guiding road vehicles	5/0445	• • • {Screw drives}
	carrying loads or passengers, e.g. in urban networks for public transportation}	5/0448	{Ball nuts}
1 /20		5/0451	• • • {Roller spindle drives}
1/28	• non-mechanical {, e.g. following a line or other	5/0454	{Worm gears}
1/202	known markers}	5/0457	• • {characterised by control features of the drive
1/283	• • {for unmanned vehicles}	2,012,	means as such}
1/286	• • • {Systems for interrupting non-mechanical	5/046	• • • {Controlling the motor}
	steering due to driver intervention}	5/0463	• • • {calculating assisting torque from the motor
3/00	Steering gears (power assisted or power driven	2,0.02	based on driver input}
	B62D 5/00; steering linkages B62D 7/00; for non-	5/0466	• • • • {for returning the steering wheel to neutral
	deflectable wheels <u>B62D 11/00</u> ; gearing in general	2.2.00	position)
	<u>F16H</u> )	5/0469	• • • {End-of-stroke control}
3/02	<ul> <li>mechanical</li> </ul>	5/0472	• • • {End of stroke control} • • • • {for damping vibrations}
3/04	• of worm type	5/0475	{Controlling other elements}
3/06	with screw and nut	5/0478	· · · {Controlling other elements}
3/08	using intermediate balls or the like	5/0481	<ul><li> {Cruches}</li><li> {monitoring the steering system, e.g. failures}</li></ul>
3/10	with worm engaging in sector or roller gear		• • • {for reaction to failures, e.g. limp home}
3/12	of rack-and-pinion type	5/0484	• • • {101 reaction to rantires, e.g. imp nome}

5/0487	• • • {detecting motor faults ( <u>B62D 5/0496</u> takes precedence)}	6/00	Arrangements for automatically controlling steering depending on driving conditions sensed
5/049	{detecting sensor failures}		and responded to, e.g. control circuits (means for
5/0493	• • • {detecting processor errors, e.g. plausibility		initiating a change in direction <u>B62D 1/00</u> ; steering
	of steering direction}		valves <u>B62D 5/06</u> ; combined with means for inclining
5/0496	• • • {by using a temperature sensor}		the vehicle body or wheels on bends <u>B62D 9/00</u> )
5/06	<ul> <li>fluid, i.e. using a pressurised fluid for most or all the force required for steering a vehicle</li> </ul>		NOTE
5/061	<ul> <li>• {provided with effort, steering lock, or end-of- stroke limiters}</li> </ul>		When classifying in this group, classification is also made in the appropriate one of groups B62D 1/00 - B62D 5/00 or
5/062	• • {Details, component parts}		$\frac{B62D 7/00}{B62D 19/00} = \frac{B62D 19/00}{B62D 19/00}$ if other aspects of the
5/063	• • {Pump driven by vehicle engine ( <u>B62D 5/065</u> takes precedence)}		steering system are of interest
5/064	• • • {Pump driven independently from vehicle engine, e.g. electric driven pump ( <u>B62D 5/065</u> takes precedence)}	6/001 6/002	<ul><li> {the torque NOT being among the input parameters}</li><li> {computing target steering angles for front or rear</li></ul>
5/065	characterised by specially adapted means for	0/002	wheels (B62D 7/159 takes precedence)}
	varying pressurised fluid supply based on need,	6/003	• • {in order to control vehicle yaw movement,
	e.g. on-demand, variable assist		i.e. around a vertical axis (B62D 6/007 takes
5/07	Supply of pressurised fluid for steering also		precedence)}
5/075	<pre>supplying other consumers {; control thereof} {using priority valves}</pre>	6/005	<ul> <li>• { treating sensor outputs to obtain the actual yaw rate}</li> </ul>
5/08	<ul><li> (using priority varves)</li><li> characterised by type of {steering} valve used</li></ul>	6/006	• • {using a measured or estimated road friction
3/00	(valves in general F16K)	0/000	coefficient}
5/081	• • • {Seat valves}	6/007	• {adjustable by the driver, e.g. sport mode}
5/083	Rotary valves	6/008	• {Control of feed-back to the steering input
5/0832	<ul><li>• • { with elastic means other than a torsion bar,</li><li>e.g. leaf springs}</li></ul>		member, e.g. simulating road feel in steer-by-wire applications}
5/0835	{characterised by means for actively	6/02	<ul> <li>responsive only to vehicle speed</li> </ul>
	influencing the deflection angle of the valve, e.g. depending on driving parameters}	6/04	• responsive only to forces disturbing the intended course of the vehicle, e.g. forces acting transversely
5/0837	• • • Characterised by the shape of the control	- 10 -	to the direction of vehicle travel
	edges, e.g. to reduce noise}	6/06	• responsive only to vehicle vibration dampening
5/087	Sliding spool valves		arrangements (steering dampers for cycles B62K 21/08)
5/09	characterised by means for actuating valves	6/00	
5/091	• • • {Hydraulic steer-by-wire systems, e.g. the	6/08	• responsive only to {driver} input torque
5 /00 <b>2</b>	valve being actuated by an electric motor}	6/10	<ul> <li>characterised by means for sensing {or determining} torque</li> </ul>
5/092	• • • { the electric motor being connected to the		determining) torque
	final driven element of the steering gear, e.g. rack}	7/00	Steering linkage; Stub axles or their mountings
5/093	Telemotor driven by steering wheel movement		( <u>B62D 13/00</u> takes precedence; power-assisted or
	(hydraulic steering gear <u>B62D 3/14</u> )	7/02	power-driven steering <u>B62D 5/00</u> )
5/097	gerotor type	7/02	• for pivoted bogies
5/10	characterised by type of power unit	7/023	• • {Steering turntables}
5/12	Piston and cylinder	7/026	• • {characterised by comprising more than one
5/14	Rotary motor		bogie, e.g. situated in more than one plane
5/16	Expansible chamber with flexible wall		transversal to the longitudinal centre line of the vehicle}
5/18	characterised by power transmitting means	7/04	• • with more than one wheel
5/20	specially adapted for particular type of steering	7/04	<ul> <li>for individually-pivoted wheels, e.g. on king-pins</li> </ul>
0,20	gear or particular application (steering gears per	7/08	<ul> <li>to individually-pivoted wheels, e.g. on king-pins</li> <li>the pivotal axes being situated in a single plane</li> </ul>
	se <u>B62D 3/00</u> ; steering linkages not characterised by being power-assisted or power-driven	7/08	transverse to the longitudinal centre line of the vehicle
5/22	B62D 7/00) for rack-and-pinion type	7/09	characterised by means varying the ratio
	for worm type		between the steering angles of the steered
5/24 5/26	for pivoted exles		wheels (varying the ratio automatically
5/26 5/28	for pivoted axles	7/10	depending on driving conditions <u>B62D 6/00</u> )
5/28	Sofety devices a gulternate emergency power	7/10	• • with single-output steering gear
5/30	Safety devices, e.g. alternate emergency power	7/12	• • with twin-output steering gear
5/22	supply or transmission means to ensure steering upon failure of the primary steering means	7/14	• • the pivotal axes being situated in more than one plane transverse to the longitudinal centre line of
5/32	• • • for telemotor systems	7/1 40	the vehicle, e.g. all-wheel steering
		7/142	<ul> <li>{ specially adapted for particular vehicles, e.g. tractors, carts, earth-moving vehicles, trucks}</li> </ul>

7/144 7/146	<ul><li> {for vehicles with more than two axles}</li><li> {characterised by comprising means for steering by acting on the suspension system,</li></ul>	11/00	Steering non-deflectable wheels; Steering endless tracks or the like
	e.g. on the mountings of the suspension arms}		NOTE
7/148	• • • {provided with safety devices}		Gearings of interest apart from this application are
7/15	between the steering angles of the steered		also classified in the relevant group of subclass F16H covering gearings per se
7/1500	wheels {( <u>B62D 7/148</u> takes precedence)} { with different steering modes, e.g. crab-	11/001	• {control systems ( <u>B62D 11/183</u> takes precedence)}
7/1509	steering, or steering specially adapted for reversing of the vehicle		NOTE
7/1518 7/1527	<ul> <li> {comprising a mechanical interconnecting system between the steering control means of the different axles}</li> <li> {comprising only mechanical parts, i.e.</li> </ul>		{When classifying in this group, classification is also made in the appropriate one of groups B62D 11/02 - B62D 11/24 if other aspects of the steering system are of interest}
1/1321	without assistance means }	11/003	• • {Electric or electronic control systems}
7/1536	• • • • {provided with hydraulic assistance}	11/005	• • {Hydraulic control systems}
7/1545	• • • • {provided with electrical assistance}	11/006	• • {Mechanical control systems}
7/1554	• • • {comprising a fluid interconnecting system	11/008	• • {Pneumatic control systems}
-4	between the steering control means of the different axles}	11/02	<ul> <li>by differentially driving ground-engaging elements on opposite vehicle sides</li> </ul>
7/1563	{provided with fluid control means (B62D 7/1572 takes precedence)}	11/04	by means of separate power sources
7/1572	• • • • {provided with electro-hydraulic control	11/06	by means of a single main power source
7/1372	means}	11/08	<ul> <li>using brakes or clutches as main steering- effecting means</li> </ul>
7/1581	{characterised by comprising an electrical interconnecting system between the steering control means of the different axles}	11/10	• • using gearings with differential power outputs on opposite sides, e.g. twin-differential or
7/159	{characterised by computing methods or	11/105	epicyclic gears {using variable ratio belt and pulley}
	stabilisation processes or systems, e.g.	11/103	gearings}
	responding to yaw rate, lateral wind, load,	11/12	using separate change-speed gearings
	road condition}	11/14	differential power outputs being effected
7/16	• Arrangement of linkage connections (pivots per se		by additional power supply to one side, e.g.
7/163	<ul><li>F16C)</li><li>• {substantially in axial direction, e.g. between rack</li></ul>		power originating from secondary power
7/103	bar and tie-rod}	11/16	source
7/166	{substantially perpendicular, e.g. between tie-rod and steering knuckle}	11/18	<ul> <li> the additional power supply being supplied mechanically</li> <li> the additional power supply being supplied</li> </ul>
7/18	Steering knuckles; King pins	11/10	hydraulically
7/20	• Links, e.g. track rods (means for adjusting camber,	11/183	{Control systems therefor}
7/22	castor, or toe-in <u>B62D 17/00</u> )  Arrangements for reducing or eliminating reaction,	11/186	• • • • • {Uncoupling devices for the hydraulic motors, e.g. to allow towing}
	e.g. vibration, from parts, e.g. wheels, of the steering system	11/20	<ul> <li>Endless-track steering having pivoted bogie carrying track (<u>B62D 11/02</u> takes precedence)</li> </ul>
7/222	• • {acting on the steering wheel}	11/22	Endless track steering being effected by deflecting
7/224	• • {acting between the steering wheel and the		endless track rollers or the like
7/226	steering gear, e.g. on the steering column} {acting on the steering gear}	11/24	• Endless track steering specially adapted for vehicles
7/228	<ul><li> {acting on the steering gear }</li><li> {acting between the steering gear and the road</li></ul>		having both steerable wheels and endless track
	wheels, e.g. on tie-rod}	12/00	Steering specially adapted for vehicles operating in tandem or having pivotally connected frames
9/00	Steering deflectable wheels not otherwise provided for (steering positon indicators <u>B62D 15/02</u> )		(steering endless tracks or the like <u>B62D 11/00</u> ; steering specially adapted for trailers <u>B62D 13/00</u> )
9/002	• {combined with means for differentially distributing	12/02	• for vehicles operating in tandem
	power on the deflectable wheels during cornering}		• •
9/005	• {Emergency systems using brakes for steering}	13/00	Steering specially adapted for trailers (combined traction and steering bitches R60D)
9/007	• {Emergency systems using the steering system for	13/005	traction and steering hitches <u>B60D</u> ) • {operated from tractor steering system}
0.402	braking}	13/003	<ul> <li>for centrally-pivoted axles</li> </ul>
9/02	<ul> <li>combined with means for inwardly inclining vehicle body on bends</li> </ul>	13/02	<ul> <li>• Ior centrary-protect axies</li> <li>• {the pivoted movement being initiated by the</li> </ul>
9/04	<ul> <li>combined with means for {inwardly} inclining</li> </ul>		coupling means between tractor and trailer}
2, <b>0</b> F	wheels on bends ( $\underline{B62D 9/02}$ takes precedence)	13/04	for individually-pivoted wheels
	•	13/06	. for backing a normally drawn trailer
		15/00	Steering not otherwise provided for

15/02	<ul> <li>Steering position indicators {; Steering position determination; Steering aids}</li> </ul>	21/06	of X-shaped or fork-shaped construction, i.e. having members which form an X or fork as the frame is
15/0205	<ul> <li>{Mechanical indicators, e.g. in or near steering wheel}</li> </ul>	21/07	seen in plan view  • wide-hipped frame type, i.e. a wide box-shaped mic
15/021	<ul><li>. {Determination of steering angle}</li></ul>	21,07	portion with narrower sections extending from said
15/0215	<ul><li>. • {by measuring on the steering column}</li></ul>		mid portion in both fore and aft directions
15/022	• • • { on or near the connection between the	21/08	<ul> <li>built up with interlaced cross members</li> </ul>
	steering wheel and steering column}	21/09	<ul> <li>Means for mounting load bearing surfaces</li> </ul>
15/0225	• • • {by measuring on a steering gear element, e.g.	21/10	. in which the main member is plate-like
	on a rack bar}	21/11	• with resilient means for suspension {, e.g. of wheels
15/023	• • • {by measuring on the king pin}		or engine; sub-frames for mounting engine or
15/0235	• • • {by measuring or deriving directly at the		suspensions}
15/024	electric power steering motor}		<u>NOTE</u>
15/024	• • • {Other means for determination of steering angle without directly measuring it, e.g.		This group does not cover subject matter
	deriving from wheel speeds on different sides		primarily relating to the suspension, with only a
	of the car}		nominal recitation of frame structure, which are
15/0245	• • • {Means or methods for determination of the		covered by subclass <u>B60G</u>
	central position of the steering system, e.g.	21/12	assembled from readily detachable parts
	straight ahead position}	21/14	of adjustable length or width
15/025	• • {Active steering aids, e.g. helping the driver	21/15	<ul> <li>having impact absorbing means, e.g. a frame</li> </ul>
	by actively influencing the steering system		designed to permanently or temporarily change
	after environment evaluation ( <u>B62D 1/28</u> takes precedence)}		shape or dimension upon impact with another body
15/0255	• • {Automatic changing of lane, e.g. for passing		(bumpers <u>B60R 19/02</u> ; shock absorbers in general
13/0233	another vehicle	01/150	<u>F16F</u> )
15/026	• • {combined with automatic distance control, i.e.	21/152	• {Front or rear frames}
	electronic tow bar}	21/155	• • {Sub-frames or underguards}
15/0265	• • • {Automatic obstacle avoidance by steering}	21/157 21/16	<ul><li>. {for side impacts}</li><li>. having fluid storage compartment</li></ul>
15/027	• • {Parking aids, e.g. instruction means}	21/10	<ul> <li>forming fluid or electrical conduit means or having</li> </ul>
15/0275	• • • {by overlaying a vehicle path based on	21/17	other means to accommodate the transmission of a
	present steering angle over an image without		force or signal
15/020	processing that image}	21/18	. characterised by the vehicle type and not provided
15/028	<ul> <li>. • {Guided parking by providing commands to the driver, e.g. acoustically or optically}</li> </ul>		for in groups <u>B62D 21/02</u> - <u>B62D 21/17</u>
15/0285	• • {Parking performed automatically}	21/183	• • {specially adapted for sports vehicles, e.g.
15/029	Steering assistants using warnings or proposing		race, dune buggies, go-karts (tubular skeleton
	actions to the driver without influencing the	21/186	B62D 23/005)}  • • {for building site vehicles or multi-purpose}
	steering system}	21/100	tractors (tracked vehicles <u>B62D 55/10</u> ; tractors
15/0295	• • • {by overlaying a vehicle path based on		in general <u>B62D 49/00</u> ; building site vehicles in
	present steering angle over an image without		general <u>E02F</u> ; lift-trucks <u>B66F</u> )}
	processing that image}	21/20	trailer type, i.e. a frame specifically constructed
			for use in a non-powered vehicle
17/00	Means on vehicles for adjusting camber, castor, or	23/00	Combined superstructure and frame, i.e. monocoque constructions ({having impact absorbing
27700	toe-in		means <u>B62D 21/15</u> ; } superstructure {or monocoque
10/00			structure sub-units (or parts or details thereof)
19/00	Radius rods, i.e. distance members		B62D 25/00 {; characterised by the material thereof
derstructu	<u>ires; Superstructures; Vehicle bodies</u>	00/005	<u>B62D 29/00</u> })
21/00	Understructures, i.e. chassis frame on which a	23/005	• {with integrated chassis in the whole shell, e.g. meshwork, tubes, or the like (B62D 33/044 takes
21/00	vehicle body may be mounted (combined frame		precedence)}
	and vehicle body <u>B62D 23/00</u> {; characterised by the		
	material thereof <u>B62D 29/00</u> })	24/00	Connections between vehicle body and vehicle
21/02	. comprising longitudinally or transversely arranged	24/02	frame (B62D 23/00, B62D 33/077 take precedence)
	frame members	24/02	<ul> <li>Vehicle body, not intended to move relatively to the vehicle frame, and mounted on vibration absorbing</li> </ul>
21/03	• transverse members providing body support		mountings, e.g. rubber pads
			mountings, e.g. rabber pads
21/04	single longitudinal type	24/04	. Vehicle body mounted on resilient suspension for
	pinched frame type, i.e. formed of at least two	24/04	<ul> <li>Vehicle body mounted on resilient suspension for movement relative to the vehicle frame</li> </ul>
21/04		24/04	

25/00	Superstructure {or monocoque structure} sub- units; Parts or details thereof not otherwise provided for {(having impact absorbing means	25/20	<ul> <li>Floors or bottom sub-units {(sub-frames for mounting engine or suspensions <u>B62D 21/11</u>; drip trays <u>F16N 31/006</u>)}</li> </ul>
	B62D 21/15; running-boards, steps, or the like as superstructure sub-unit B60R 3/00)}	25/2009	{in connection with other superstructure subunits}
25/02	• Side panels {( <u>B62D 33/046</u> takes precedence;	25/2018	• • • {the subunits being front structures}
	sideboards for open load compartments	25/2027	• • • {the subunits being rear structures}
	<u>B62D 33/023</u> )}	25/2036	• • • {the subunits being side panels, sills or pillars
25/025	• • {Side sills thereof}		$(\underline{B62D \ 21/157} \ takes \ precedence)$
25/04	• Door pillars {; windshield pillars}	25/2045	• • • {the subunits being fire walls}
25/06	• Fixed roofs (non-fixed roofs or like shelters	25/2054	• • {Load carrying floors for commercial vehicles}
	<u>B60J 7/00</u> ; roof liners <u>B60R 13/02</u> ; insulating	25/2063	• • {Floor elements for repairs}
05/07	elements <u>B60R 13/08</u> )	25/2072	• • {Floor protection, e.g. from corrosion or
25/07	<ul> <li>having water drainage or guide means integral with roof structure</li> </ul>		scratching (floor mats <u>B60N 3/04</u> , armour <u>F41H 7/042</u> , insulation <u>B60R 13/08</u> , streamlining
25/08	• Front or rear portions {(sub-frames for mounting		B62D 35/02)}
	engine or suspensions <u>B62D 21/11</u> )}	25/2081	• • {Jack receiving devices}
25/081	• • {Cowls (ventilating openings situated directly in	25/209	• • {Arrangements for the mounting of vehicle
	front of the vehicle front window <u>B60H 1/28</u> )}		hitches (vehicle connections in general <u>B60D</u> )}
25/082	• • {Engine compartments}	25/24	• Superstructure sub-units with access {or drainage}
25/084	• • • {Radiator supports}		openings having movable or removable closures;
25/085	• • {Front-end modules}		{Sealing means therefor}(inlet covers for vehicle
25/087	• {Luggage compartments}		fuel tanks <u>B60K 15/05</u> )
25/088	• • {Details of structures as upper supports for	27/00	Connections between superstructure {or
25/10	springs or dampers}		understructure} sub-units {(B62D 33/0207,
25/10	<ul> <li>Bonnets or lids {, e.g. for trucks, tractors, busses, work vehicles (for truck beds B60J 7/1607; for</li> </ul>		B62D 33/044 take precedence; between sub-
	boats B63B 19/12; doors arranged at the vehicle		units predominently made of synthetic material
	rear <u>B60J 5/10</u> ; inlet covers for vehicle fuel tanks		<u>B62D 29/048</u> )}
	B60K 15/05; for protecting non-occupants of a	27/02	. rigid
	vehicle <u>B60R 21/38</u> )}	27/023	• • {Assembly of structural joints}
25/105	• • • {for motor cars}	27/026	{Connections by glue bonding (in general
25/12	• • • Parts or details thereof (locks <u>E05B</u> ,	27/04	<u>F16B 11/00</u> ; processes <u>C09J 5/00</u> )}
	$\{\underline{E05B\ 83/16};\ devices\ for\ holding\ open$	27/04 27/06	resilient
	E05C 17/00, e.g. while carrying oversize		. readily releasable
	objects <u>E05C 17/042</u> }; hinges <u>E05D</u> ;	27/065	• • {using screwthread (connection of crossbeam to
	objects <u>E05C 17/042</u> }; hinges <u>E05D</u> ; counterbalancing means <u>E05F</u> ; {checks, stops,		• • {using screwthread (connection of crossbeam to A- pillars <u>B62D 25/147</u> ; mounting load bearing
	objects <u>E05C 17/042</u> }; hinges <u>E05D</u> ; counterbalancing means <u>E05F</u> ; {checks, stops, buffers <u>E05F 5/00</u> ; } springs, {e.g. pneumatic		• • {using screwthread (connection of crossbeam to
25/14	objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)		<ul> <li>{using screwthread (connection of crossbeam to A- pillars <u>B62D 25/147</u>; mounting load bearing surfaces <u>B62D 21/09</u>; securing mudguards</li> </ul>
25/14	objects <u>E05C 17/042</u> }; hinges <u>E05D</u> ; counterbalancing means <u>E05F</u> ; {checks, stops, buffers <u>E05F 5/00</u> ; } springs, {e.g. pneumatic	27/065	• • {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}
25/14 25/142	objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)  • Dashboards as superstructure sub-units (other		. • {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}  Superstructures, {understructures, or sub-units
	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> </ul>	27/065	. • {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}  Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof
25/142 25/145	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> </ul>	27/065	<ul> <li>. {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> </ul>
25/142 25/145 25/147	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> </ul>	27/065 29/00	. • {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}  Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof
25/142 25/145	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels</li> </ul>	27/065 29/00	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being</li> </ul>
25/142 25/145 25/147	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres</li> </ul>	27/065 29/00 29/001	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic</li> </ul>
25/142 25/145 25/147 25/16	<ul> <li>objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> </ul>	29/00 29/001 29/002	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> </ul>
25/142 25/145 25/147	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional</li> </ul>	27/065 29/00 29/001	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• {the metal being over-moulded by the synthetic</li> </ul>
25/142 25/145 25/147 25/16	<ul> <li>objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> </ul>	29/00 29/001 29/002 29/004	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• • {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163	<ul> <li>objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> </ul>	29/00 29/001 29/002	<ul> <li>• (using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• • {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• • {preformed metal and synthetic material elements</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> <li>{including sealing devices}</li> </ul>	29/00 29/001 29/002 29/004 29/005	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• • {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> <li>{including sealing devices}</li> <li>{by rods or other distance-keeping devices}</li> </ul>	29/00 29/001 29/002 29/004	<ul> <li>• (using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, (understructures, or sub-units thereof,) characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• { a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• { the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• { preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> <li>• { predominantly of special steel or specially treated</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166 25/168	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> <li>{including sealing devices}</li> <li>{by rods or other distance-keeping devices}</li> <li>{Mud guards for utility vehicles}</li> </ul>	29/00 29/001 29/002 29/004 29/005	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• • {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> <li>{including sealing devices}</li> <li>{by rods or other distance-keeping devices}</li> <li>{Mud guards for utility vehicles}</li> <li>Parts or details thereof, e.g. mudguard flaps</li> </ul>	29/00 29/001 29/002 29/004 29/005	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> <li>• {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened steel}</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166 25/168 25/18	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> <li>{including sealing devices}</li> <li>{by rods or other distance-keeping devices}</li> <li>{Mud guards for utility vehicles}</li> </ul>	29/00 29/001 29/002 29/004 29/005 29/007	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• • {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• • {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> <li>• {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166 25/168 25/18	<ul> <li>objects E05C 17/042}; hinges E05D;</li> <li>counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)</li> <li>Dashboards as superstructure sub-units (other dashboard aspects B60K)</li> <li>{having ventilation channels incorporated therein}</li> <li>{having a crossbeam incorporated therein}</li> <li>{with adjustable connection to the A-pillars}</li> <li>Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)</li> <li>{Mud-guards made of non-conventional material, e.g. rubber, plastics}</li> <li>{Mounting devices}</li> <li>{including sealing devices}</li> <li>{by rods or other distance-keeping devices}</li> <li>{Mud guards for utility vehicles}</li> <li>Parts or details thereof, e.g. mudguard flaps</li> <li>{Movable mudguards, or mudguards</li> </ul>	29/00 29/001 29/002 29/004 29/005 29/007	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> <li>• {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened steel}</li> <li>• {predominantly of light alloys, e.g. extruded}</li> </ul>
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25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166 25/168 25/18 25/182	objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)  . Dashboards as superstructure sub-units (other dashboard aspects B60K)  . {having ventilation channels incorporated therein}  . {having a crossbeam incorporated therein}  . {with adjustable connection to the A-pillars}  . Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)  . {Mud-guards made of non-conventional material, e.g. rubber, plastics}  . {Mounting devices}  . {fincluding sealing devices}  . {by rods or other distance-keeping devices}  . {Mud guards for utility vehicles}  . Parts or details thereof, e.g. mudguard flaps  . {Movable mudguards, or mudguards comprising movable or detachable parts (B62D 25/188 takes precedence)}  . {being attached or suspended laterally	29/00 29/001 29/002 29/004 29/005 29/007 29/008 29/02	<ul> <li>• {using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> <li>• {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened steel}</li> <li>• {predominantly of wood</li> <li>• predominantly of synthetic material (working of</li> </ul>
25/142 25/145 25/147 25/16 25/161 25/163 25/165 25/166 25/168 25/182 25/184	objects E05C 17/042}; hinges E05D; counterbalancing means E05F; {checks, stops, buffers E05F 5/00; } springs, {e.g. pneumatic springs} F16F)  . Dashboards as superstructure sub-units (other dashboard aspects B60K)  . {having ventilation channels incorporated therein}  . {having a crossbeam incorporated therein}  . {with adjustable connection to the A-pillars}  . Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)  . {Mud-guards made of non-conventional material, e.g. rubber, plastics}  . {Mounting devices}  . {fucluding sealing devices}  . {furdiding sealing devices}  . {fund guards for utility vehicles}  . Parts or details thereof, e.g. mudguard flaps  . {Movable mudguards, or mudguards comprising movable or detachable parts (B62D 25/188 takes precedence)}  . {being attached or suspended laterally from the wheel (B62D 25/184 takes	29/00 29/001 29/002 29/004 29/005 29/007 29/008 29/02 29/04	<ul> <li>• { using screwthread (connection of crossbeam to A- pillars B62D 25/147; mounting load bearing surfaces B62D 21/09; securing mudguards B62D 25/163; connections for synthetic parts B62D 29/048)}</li> <li>Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044, B62D 33/048 take precedence)}</li> <li>• {characterised by combining metal and synthetic material}</li> <li>• • {a foamable synthetic material or metal being added in situ (shaping of substances in a plastic state by foaming, in general B29C 44/00)}</li> <li>• • {the metal being over-moulded by the synthetic material, e.g. in a mould}</li> <li>• • {preformed metal and synthetic material elements being joined together, e.g. by adhesives}</li> <li>• {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened steel}</li> <li>• {predominantly of light alloys, e.g. extruded}</li> <li>• predominantly of synthetic material (working of plastics or substances in a plastic state B29)</li> <li>• {Understructures}</li> <li>• {Superstructures (B62D 25/161 takes</li> </ul>
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29/046	• • {Combined superstructure and frame, i.e.	33/0604	• • {Cabs insulated against vibrations or noise, e.g.
29/048	monocoque constructions }  • {Connections therefor, e.g. joints (B62D 29/045)		with elastic suspension (resilient connections between superstructure sub-units <u>B62D 27/04</u> ;
	takes precedence)}		damping noise in general <u>G10K 11/00</u> ; for vehicles in general <u>B60R 13/08</u> )}
31/00	Superstructures for passenger vehicles (passenger	33/0608	• • {pneumatic or hydraulic suspension}
	vehicles specially adapted to co-operate with aircraft	33/0612	{Cabins with living accommodation, especially
31/003	or terminal buildings <u>B64F 1/31</u> ) • {compact cars, e.g. city cars}		for long distance road vehicles, i.e. sleeping,
31/005	<ul> <li>(compact cars, e.g. city cars)</li> <li>• {foldable (droppable <u>B60F 5/006</u>)}</li> </ul>		cooking, or other facilities (beds in general
31/02	<ul> <li>for carrying large numbers of passengers, e.g.</li> </ul>		adapted to be used in vahicles <u>A47C 17/80</u> ; sanitation devices in vehicles in general
01/02	omnibus		B60R 15/00; living accommodation in vehicles in
31/025	• • {having modular sections}		general <u>B60P 3/32</u> ; passenger fittings in general
31/04	with more than one deck		<u>B60N 3/00</u> )}
33/00	Superstructures for load-carrying vehicles	33/0617	• • {for tractors or off-the-road vehicles (protective
33/00	({having impact absorbing means <u>B62D 21/15;</u> }		devices for drivers in case of overturning of
	in which a load-carrying element is movable <u>B60P</u> ;	22/0621	tractors <u>B60R 21/131</u> )} {able to be dismantled, folding}
	liners B60R 13/00 {; joining sheets or plates to	33/0621 33/0625	• • {able to be dismanded, folding} • • • {open}
	one another or to strips or bars parallel to them	33/0623	<ul><li>. Topen?</li><li>. movable from one position into at least one other</li></ul>
22/02	<u>F16B 5/00</u> })	33/003	position, e.g. tiltable, pivotable about a vertical
33/02	<ul> <li>Platforms; Open load compartments {(flat wagons including posts or standards <u>B61D 3/08)</u>}</li> </ul>		axis, displaceable from one side of the vehicle to
33/0207	Connections of movable or detachable racks or		the other
33/0207	stanchions to platforms}	33/0633	• • • {pivotable about a vertical axis}
33/0215	• • • {for log hauling vehicles (vehicles for log	33/0636	• • • {displaceable along a linear path}
	transport in general <u>B60P 3/41</u> )}	33/067	tiltable
33/0222	• • {Connecting elements between stanchions, e.g.	33/07	characterised by the device for locking the cab in the tilted or in the driving position
	roof supporting elements, stiffeners (non-fixed	33/071	{Locking devices for cabins in driving
	roofs <u>B60J 7/00</u> ; securing and covering of load <u>B60P 7/00</u> )}		position; Shock and vibration absorbing
33/023	Sideboard or tailgate structures {(vehicle side)		devices therefor}
	panels in general <u>B62D 25/02</u> )}	33/073	characterised by special adaptations of vehicle
33/027	movable	22/077	control devices
33/0273	• • • • {Movable tailboards for vehicles comprising	33/077	<ul> <li>characterised by the connection of the superstructure to the vehicle frame {(B62D 33/06)</li> </ul>
	non-movable sideboards, e.g. pick-up trucks		takes precedence)}
33/0276	( <u>B62D 33/037</u> takes precedence)} {by vertical translation ( <u>B62D 33/0273</u> takes	33/08	• comprising adjustable means (B62D 33/10 takes
33/02/0	precedence)}		precedence)
33/03	• • • by swinging down {( <u>B62D 33/0273</u> takes	33/10	• comprising means for the suspension of the
	precedence)}		superstructure on the frame
33/033	removable {( <u>B62D 33/0273</u> takes	35/00	Vehicle bodies characterised by streamlining
22/027	precedence)}	35/001	• {For commercial vehicles or tractor-trailer
33/037	Latching means therefor	27/202	combinations, e.g. caravans}
33/04	<ul> <li>Enclosed load compartments {; Frameworks for movable panels, tarpaulins or side curtains</li> </ul>	35/002	• • {for caravans ( <u>B62D 35/004</u> takes precedence)}
	(side curtains per se B60J 5/065; tarpaulins per se	35/004	• • {Inflatable nose or rear cones}
	B60J 7/00, B60P 7/04)}	35/005 35/007	• {Front spoilers ( <u>B62D 35/001</u> takes precedence)} • {Rear spoilers ( <u>B62D 35/001</u> takes precedence)}
33/042	• • {divided into compartments (movable bulk heads	35/007	• {Side spoilers (B62D 35/001 takes precedence)}
	<u>B60P 7/14</u> ; cattle transport <u>B60P 3/04</u> ; bottled	35/008	• Streamlining the undersurfaces {(B62D 35/005,
22/044	liquids <u>B60P 3/22</u> )}		B62D 35/007, B62D 35/008 take precedence)}
33/044	Suilt up with profiles of constant elongated shape, e.g. extruded, mechanically interconnected	37/00	Stabilising vehicle bodies without controlling
	by coupling members, e.g. by clamping, riveting	37/00	suspension arrangements
	or bolting}	37/02	<ul> <li>by aerodynamic means</li> </ul>
33/046	• • {built up with flat self-supporting panels; Fixed	37/04	<ul> <li>by means of movable masses</li> </ul>
	connections between panels ( <u>B62D 29/045</u> ,	37/06	• using gyroscopes
22/049	B62D 33/048 take precedence)	39/00	Vehicle bodies not otherwise provided for {, e.g.
33/048 33/06	<ul><li>. {for refrigerated goods vehicles}</li><li>. Drivers' cabs {(overhead guards, e.g. against loads</li></ul>	57100	safety vehicles (safety equipment <u>B60R 21/00</u> )}
<i>55</i> /00	falling down <u>B60R 21/11</u> ; roll-over protection	41/00	
	B60R 21/13)}	41/00	Fittings for identifying vehicles in case of collision; Fittings for marking or recording collision areas
		43/00	Spare wheel stowing, holding, or mounting
			arrangements

42/002	(II	40/0657	(
43/002	• {Handling devices, mainly for heavy wheels (via	49/0657	{Asymmetrical tractors}
42/005	cables and chains <u>B62D 43/045</u> )}	49/0664	• • {Light, simple, and economical tractors
43/005	• {Protective coverings for spare wheels}	40/0671	$(\underline{B62D} \ 49/002 \text{ takes precedence})$
43/007	• {Anti-theft devices for spare wheels}	49/0671	• • • {the driver riding on the tractor}
43/02	external to the vehicle body	49/0678	{Tractors of variable track width or wheel
43/04	attached beneath the vehicle body		base (for vehicles in general <u>B60B 23/12</u> and <u>B60B 25/10</u> )
43/045	• {the wheel or its cradle being attached to one or	49/0685	B60B 35/10)}
12/06	more chains or cables for handling}		<ul><li>• {Reversible tractors adapted for shuttle work}</li><li>• {characterised by the particular arrangement of</li></ul>
43/06	within the vehicle body	49/0692	control devices, e.g. having more than one control
43/08	and arranged substantially vertically		stand, operable from vehicle extension (control
43/10	and arranged substantially horizontally		devices or systems characterised by mechanical
Motor vehicl	les or trailers classified according to type; Parts or		features only)}
	hereof (frames for vehicles of special type B62D 21/18)	49/08	<ul> <li>having means for preventing overturning or tipping</li> </ul>
			(safety devices for propulsion-unit control, specially
47/00	Motor vehicles or trailers predominantly for		adapted for, or arranged in, vehicles <u>B60K 28/00</u> )
	carrying passengers (superstructures <u>B62D 31/00</u> )	49/085	• • {Counterweight}
47/003	• {convertible in order to modify the number of seats	51/00	Motor vehicles characterised by the driver not
	(foldable compact cars <u>B62D 31/006</u> ; convertible	31/00	being seated {(wheeled carriers for golf bags
47/006	from one use to a different one <u>B60P 3/42</u> )}		A63B 55/60)}
47/006	<ul> <li>{Vehicles which can be divided in sub-vehicles; nestable vehicles}</li> </ul>	51/001	• {characterised by the vehicle control device
47/02	<ul> <li>for large numbers of passengers, e.g. omnibus</li> </ul>	31/001	(mechanical features of control devices in general
47/025	<ul> <li>for large numbers of passengers, e.g. offinious</li> <li>farticulated buses with interconnecting</li> </ul>		G05G; arrangements of vehicle control devices in
47/023	passageway, e.g. bellows (coupling aspects		general <u>B60K 20/00</u> , <u>B60K 23/00</u> , <u>B60K 26/00</u> )}
	B60D 5/00)}	51/002	• • {comprising safety arrangements (safety devices
	<u> </u>		for vehicle propulsion unit control <u>B60K 28/00</u> )}
49/00	<b>Tractors</b> (of walk type <u>B62D 51/04</u> ; endless- track	51/004	• {characterised by the transmission (arrangements or
	features <u>B62D 55/00</u> {; transport specially adapted for		mounting of transmissions in vehicles <u>B60K 17/00</u> ;
	underground galleries <u>E21F 13/02</u> })		gearing in general <u>F16H</u> )}
49/002	• {characterised by being of the low ground pressure	51/005	• {Vehicular characteristics of load handling vehicles,
40/005	type}		e.g. pedestrian trucks (fork-lift trucks <u>B66F 9/06</u> )}
49/005	• {Tractors for semi-trailers (combinations of tractor	51/007	• {the vehicle being of the endless track type (endless
40/007	plus semi- trailer <u>B62D 53/06</u> )}	<b>7.1</b> (0.00	track vehicles in general <u>B62D 55/00</u> )}
49/007	<ul> <li>{Tractors for handling trailers, e.g. roll-trailers in terminals}</li> </ul>	51/008	• {characterised by the vehicle being formed
49/02	<ul> <li>modified to take lifting devices</li> </ul>		by articulated or separable units (road trains
49/04	<ul> <li>modified to take pushing devices</li> </ul>	51/02	B62D 53/00)} • the driver standing in the vehicle
49/06	adapted for multi-purpose use	51/02	the driver standing in the venicle the driver walking
49/0607	{Straddle tractors, used for instance above vine	51/04	Uniaxle walk-type tractors
15/0007	stocks, rows of bushes, or the like}	51/065	{the vehicle baving only one wheel}
49/0614	• • {equipped with visual aids for positioning	31/003	• • • { the vehicle baving only one wheel }
	implements or to control working condition	53/00	Tractor-trailer combinations; Road trains (traction
	(optical signalling for vehicles in general		couplings other than fifth wheel coupling <u>B60D</u> {;
	<u>B60Q 1/26</u> )}		tracked vehicles comprising at least two articulated
49/0621	<ul> <li>{comprising traction increasing arrangements,</li> </ul>		parts <u>B62D 55/0655</u> })
	e.g. all-wheel traction devices, multiple-	53/005	• {Combinations with at least three axles and
	axle traction arrangements, auxiliary traction		comprising two or more articulated parts
	increasing devices (anti-skid or anti-slip devices	52/02	(articulated buses <u>B62D 47/025</u> )}
	fitted onto the wheels <u>B60B 15/02</u> , <u>B60B 39/12</u> ;	53/02	comprising a uniaxle tractor unit and a uniaxle trailer unit {(see B60B 11/00 - B60B 11/08)}
	arrangements of transmission for driving both	53/021	• {comprising a universal coupling joint}
	front and rear wheels or tandem wheels of vehicles <u>B60K 17/34</u> , <u>B60K 17/36</u> )}	53/021	<ul><li>. {comprising a universal coupling joint?</li><li>. {with two or more coupling joints allowing</li></ul>
49/0628	• • {using detachable weights (counterweights	33/023	staggering of the units from a central plane}
47/0020	against overturning <u>B62D 49/085</u> ; movable	53/025	• • {Comprising a transmission shaft passing
	stabilisation masses B62D 37/04)}	33/023	through the coupling joints (B62D 53/021
49/0635	• • • {using additional ground engaging means, e.g.		takes precedence; trailers with powered axles
	endless tracks (vehicles with endless tracks and		<u>B62D 59/00</u> )}
	either additional or alternative ground wheels	53/026	{With all wheels powered}
	<u>B62D 55/02</u> , <u>B62D 55/04</u> )}	53/028	• • {Having only coupling joints other than
49/0642	• • • {by coupling of tractors}		directional (articulated frames B62D 21/186 and
49/065	• • {Coupling of multi-purpose tractors with		<u>B62D 55/10</u> )}
	equipment (towing bars <u>B60D</u> ; with load transfer	53/04	<ul> <li>comprising a vehicle carrying an essential part of</li> </ul>
	B62D 53/08; power take-off B60K; with lifting		the other vehicle's load by having supporting means
	devices <u>B62D 49/02</u> ; pushing gear <u>B62D 49/04</u> )}		for the front or rear part of the other vehicle

53/045	• • {with rigid linkage in the horizontal plane (luggage trailers <u>B62D 63/064</u> - <u>B62D 63/067</u> )}	55/00	Endless track vehicles (steering aspects <u>B62D 11/00</u> ; {characterised by the driver not being seated
53/06 53/061	<ul><li>Semi-trailers</li><li>{of flat bed or low loader type or fitted</li></ul>	55/02	B62D 51/007})  • with tracks and additional ground wheels {(for
	with swan necks (detachable swan necks <u>B62D 53/065</u> ; swan neck-fifth wheel couplings <u>B62D 53/08</u> )}	55/04	<ul> <li>multi-purpose tractors <u>B62D 49/0635</u>)}</li> <li>with tracks and alternative ground wheels, e.g. changeable from endless track vehicle into wheeled</li> </ul>
53/062	• • • • {having inclinable, lowerable platforms; Lift bed trailers; Straddle trailers (lifting coupling saddles <u>B62D 53/0821</u> ; crane	55/07	vehicle and <u>vice versa</u> {(for multi-purpose tractors B62D 49/0635)}
50/064	vehicles <u>B60P 3/28</u> )}	55/06 55/062	<ul> <li>with tracks without ground wheels</li> <li>• {Tracked vehicles of great dimensions adapted</li> </ul>
53/064	• • • • {inclining platforms by detachable bogies}		for moving bulky loads or gear}
53/065	• • • • {inclining platforms by detachable or folding swan necks}	55/065	• • Multi-track vehicles, i.e. more than two tracks {(soil-shifting machines <u>E02F</u> ; mining machines
53/067	<ul> <li>• • {Multi-purpose, convertible or extendable load surface semi-trailers (for container transport B60P 1/6418; convertible road transport vehicles in general B60P 3/42)}</li> </ul>	55/0655	<ul> <li>E21C)}</li> <li>• {Articulated endless track vehicles (steering specially adapted for trailers B62D 13/00; articulated buses B62D 47/025; tractor-trailer</li> </ul>
53/068	• • • {having devices to equalise or modify the load between the fifth wheel and the rear		combinations or road trains comprising a uni- axle unit and a uni-axle trailer <u>B62D 53/02</u> )}
	wheels (adjustable couping saddles per se	55/07	Mono-track vehicles
	B62D 53/0807; load transfer devices to permit	55/075	Tracked vehicles for ascending or
	coupling or uncoupling B62D 53/0857; anti	33/0/3	descending stairs, {steep slopes or vertical
	jack-knifing devices <u>B62D 53/0871</u> )}		surfaces}(magnetic or pneumatic ground-
53/08	• Fifth wheel traction couplings {(tractors for		engaging parts <u>B62D 55/265</u> ; chairs or multi-
	handling trailers in terminals <u>B62D 49/007</u> )}		track cycles specially adapted for invalids
53/0807	{adjustable coupling saddles mounted on sub-		<u>A61G 5/00</u> )
	frames; Mounting plates therefor}	55/08	Endless track units; Parts thereof
53/0814	{ with adjustment of the clearance between	55/084	Endless-track units or carriages mounted
	the tractor or the trailer (devices modifying		separably, adjustably or extensibly on vehicles,
	the load in tractor-trailer combinations B62D 53/068)}		e.g. portable track units ( <u>B62D 55/07</u> takes precedence)
53/0821	• • • {Lifting saddles, i.e. to lift the trailer front	55/0842	• • • {Tracked vehicle with track carriages
00,0021	(tilting body constructions <u>B60P</u> )}	23/0012	suspended on three points, e.g. by an equaliser
53/0828	{Removable or fold-away traction couplings		bar}
22,0020	for non-specialised tractor vehicles}	55/0845	• • • {Protection devices}
53/0835	{Coupling saddles able to rock in all	55/0847	• • • {Track blocking devices mounted on the frame;
	directions, e.g. for use in rough terrain}	22,00.,	Track guides}
53/0842	{King pins}	55/088	with means to exclude or remove foreign matter,
53/085	• • • {fitted with anti-coupling devices, pivotal	22,000	e.g. sealing means, self-cleaning track links or
33,003	or retractable king pins, e.g. to prevent		sprockets, deflector plates or scrapers
	theft (vehicle fittings for preventing theft in	55/0882	{Track or sprocket cleaning devices mounted
53/0857	general <u>B60R 25/00</u> )}  • • {Auxiliary semi-trailer handling or loading		on the frame (wheel cleaning devices in general <u>B60S</u> )}
33/0637	equipment, e.g. ramps, rigs, coupling supports}	55/0885	• • • {Self-cleaning sprockets}
53/0864	• • • {Dollies for fifth wheel coupling}	55/0887	{Track-articulation sealings against dust,}
	• • { With stabilising means, e.g. to prevent jack-	33/0887	water, mud or the like (sealing of bearings in
53/0871	knifing, pitching, rolling, buck jumping (stabilising in general <u>B62D 37/00</u> ; tractors		general <u>F16C 33/72</u> ; chain bushings in general <u>F16G 15/00</u> )}
	(stabilising in general <u>B02D 57/00</u> , tractors <u>B62D 49/08</u> )}	55/092	• • with lubrication means (lubricating in general
53/0878	• • • {the fifth wheel coupling incorporating	33/092	F16N)
33/0076	braking or restraining means}	55/006	with noise reducing means
53/0885	{Comprising devices to limit or to compensate	55/096 55/0963	{Anti-noise driving sprockets}
33/0003	for wear or excessive play; Lubricating, shock	55/0966	• • {Anti-noise driving sprockets} • • • {Low noise rollers, e.g. with antivibration
	absorbing, bearing devices, or the like}	33/0900	means (elastic wheel rims in general
53/0892	• • • {comprising power transmission shafts (trailers		<u>B60B 9/00</u> )}
	with driven ground wheels <u>B62D 59/00</u> )}	55/10	Bogies; Frames (track-tensioning means)
53/10	• • • with means for preventing accidental		B62D 55/30)
FO /10	uncoupling	55/104	Suspension devices for wheels, rollers, bogies or
53/12	• • engaging automatically		frames (vehicle suspension in general <u>B60G</u> )
53/125	• • • { with simultaneous coupling of the service	55/108	• • • with mechanical springs, e.g. torsion bars
	lines}	55/1083	· · · · {Torsion-bar springs}
		55/1086	{Rubber springs}
		55/112	• • • with fluid springs, e.g. hydraulic pneumatic

55/1125	• • • {Hydro-pneumatic or pneumatic, e.g. air-cushioned}	57/02	<ul> <li>with ground-engaging propulsion means, e.g. walking members</li> </ul>
55/116	• • Attitude or position control of chassis by action on suspension, e.g. to compensate for a slope	57/021	• • {the ground engaging means being sequentially inflatable bags for peristaltic movement
55/12	<ul> <li>Arrangement, location, or adaptation of driving sprockets</li> </ul>	57/022	(B62D 57/024 takes precedence)}  • {consisting of members having both rotational}
55/125	Final drives		and walking movements}
55/13	readily interchangeable modular type	57/024	specially adapted for moving on inclined or
55/135	with dismountable driving crown		vertical surfaces (endless-track vehicles for ascending or descending stairs B62D 55/075;
55/14	. Arrangement, location, or adaptation of rollers		hand-carts with provision for travelling up or
55/145	• • • {Rollers with replaceable wear rings or rims		down stairs B62B 5/02)
	(driving sprockets with replaceable rims B62D 55/12)}	57/028	• having wheels and mechanical legs (B62D 57/024
55/15	Mounting devices, e.g. bushings, axles, bearings, sealings {(with lubrication means})		takes precedence; ground-engaging vehicle fittings for supporting, lifting or manoeuvring the
	B62D 55/092)}		vehicle, wholly or in part <u>B60S 9/00</u> )
55/18	• Tracks (self-cleaning track links <u>B62D 55/088</u> )	57/032	• with alternately or sequentially lifted supporting
55/20	• • • of articulated type, e.g. chains {(with		base and legs; with alternately or sequentially lifted feet or skid (B62D 57/024 takes
	lubrication means <u>B62D 55/092</u> )}		precedence)
55/202	• • • • Wheel engaging parts; Wheel guides on	57/036	• screw type, e.g. Archimedian screw {(amphibious
55/005	links}		vehicles comprising screw-type ground-engaging
55/205	Connections between track links		means <u>B60F 3/0023</u> )}
55/21	Links connected by transverse pivot pins	57/04	<ul> <li>having other than ground-engaging propulsion</li> </ul>
55/211	{Bitubular chain links assembled by pins and double connectors}		means, e.g. having propellers (arrangement of jet-
55/213	{Master track links}		propulsion units <u>B60K</u> )
55/215	Resilient connections between links	59/00	Trailers with driven ground wheels or the like
55/22	Arrangements for preventing or modifying	59/02	<ul> <li>driven from external propulsion unit</li> </ul>
	back-flexing	59/04	<ul> <li>driven from propulsion unit on trailer</li> </ul>
55/24	• • of continuously flexible type, e.g. rubber belts	61/00	Motor vehicles or trailers, characterised by the
55/242	• • • {The flexible band being semi-rigid for	01/00	arrangement or number of wheels, not otherwise
	resisting back-flexing and contributing to		provided for, e.g. four wheels in diamond pattern
55/244	spring the vehicle}	61/02	. with two road wheels in tandem on the longitudinal
33/244	• • • • {Moulded in one piece, with either smooth surfaces or surfaces having projections, e.g.		centre line of the vehicle
	incorporating reinforcing elements}	61/04	with two other wheels which are coaxial
55/247	Gas filled or inflatable flexible tracks	61/06	• with only three wheels
	(connection of valves to inflatable elastic	61/065	• • {with single rear wheel}
	bodies <u>B60C 29/00</u> )	61/08	<ul><li>with single front wheel</li><li>with more than four wheels {(tractors of the low</li></ul>
55/253	having elements interconnected by one or	61/10	ground pressure type <u>B62D 49/002</u> )}
55/06	more cables or like elements	61/12	• with variable number of ground engaging wheels,
55/26	<ul> <li>Ground engaging parts or elements {(tracks specially adapted for amphibious vehicles</li> </ul>	01/12	e.g. with some wheels arranged higher than others,
	B60F 3/0015)}		or with retractable wheels (for manoeuvring
55/265	having magnetic or pneumatic adhesion		purposes only <u>B60S</u> )
55/27	having different types of crampons for	61/125	• • {the retractable wheel being a part of a set of
	progression over varying ground		tandem wheels (resilient suspension for a single
55/275	with street plate, i.e. means to prevent tread		set of tandem wheels <u>B60G 5/00</u> )}
	from cutting into road surface	63/00	Motor vehicles or trailers not otherwise provided
55/28	detachable		for
55/283	{and movable, e.g. around an axis or	63/02	• Motor vehicles
55/286	perpendicularly to the track} {For soft grounds, e.g. consisting of snow}	63/025	<ul> <li>{Modular vehicles (superstructures for busses having modular sections <u>B62D 31/025</u>)}</li> </ul>
33/200	or swamp}	63/04	
55/30	Track-tensioning means	63/04	<ul> <li>Component parts or accessories</li> <li>Trailers (vehicles comprising living accommodation</li> </ul>
55/305	• • {acting on pivotably mounted idlers}	03/00	for people, e.g. caravans, camping or like vehicles
55/32	Assembly, disassembly, repair or servicing of		B60P 3/32)
	endless-track systems	63/061	• • {Foldable, extensible or yielding trailers (foldable
57/00	Vehicles characterised by having other propulsion		caravans <u>B60P 3/34</u> ; adjustable chassis frames
37/00	or other ground- engaging means than wheels or		<u>B62D 21/14</u> )}
	endless track, alone or in addition to wheels or	63/062	• • {Trailers with one axle or two wheels (semi-
	endless track (sledges <u>B62B</u> ; motor sledges <u>B62M</u> )		trailers <u>B62D 53/06</u> )}

63/064	• • • {light luggage or equipment trailers, e.g. for batteries, gas generators, gas bottles, stretchers
63/065	<ul> <li>(luggage carriers per se B60R)}</li> <li>. • {forming an extension of the towing vehicle, i.e. with two point fixation}</li> </ul>
63/067	{single wheeled (rigid or semi-rigid couping)}
63/068	• • {with more than two axles or more than four wheels (vehicles with more than four wheels in general B62D 61/10)}
63/08	Component parts or accessories
65/00	Designing, manufacturing, e.g. assembling, facilitating disassembly, or structurally modifying motor vehicles or trailers, not otherwise provided for
65/005	• {Inspection and final control devices}
65/02	<ul> <li>Joining sub-units or components to, or positioning sub-units or components with respect to, body shell or other sub-units or components</li> </ul>
65/022	<ul> <li>{Transferring or handling sub-units or components, e.g. in work stations or between workstations and transportation systems}</li> </ul>
65/024	<ul> <li>{Positioning of sub-units or components with respect to body shell or other sub-units or components}</li> </ul>
65/026	• • • {by using a jig or the like; Positioning of the jig}
65/028	• • • {by determining relative positions by measurement}
65/04	Joining preassembled modular units composed of sub-units performing diverse functions, e.g. engine and bonnet (B62D 65/06 - B62D 65/16 take precedence)
65/06	• the sub-units or components being doors, windows, openable roofs, lids, bonnets, or weather strips or seals therefor {(assembling sealing arrangements with vehicle parts, e.g. doors, windows B60J 10/45)}
65/10	the sub-units or components being engines, clutches or transmissions
65/12	the sub-units or components being suspensions, brakes or wheel units
65/14	<ul> <li>the sub-units or components being passenger compartment fittings, e.g. seats, linings, trim, instrument panels</li> </ul>
65/16	• • the sub-units or components being exterior fittings, e.g. bumpers, lights, wipers {, exhausts}
65/18	. Transportation, conveyor or haulage systems specially adapted for motor vehicle or trailer assembly lines {(conveyors and haulage in general B65G)}
67/00	Systematic disassembly of vehicles for recovery of salvageable components, e.g. for recycling (for disposal of vehicles by destroying or transformation B09B 3/00, B09B 5/00 {; general arrangement of separating plants B03B 9/00; recovery of plastics B29B 17/00})