# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### **TRANSPORTING**

#### **B60** VEHICLES IN GENERAL

(NOTE omitted)

### B60G VEHICLE SUSPENSION ARRANGEMENTS (air-cushion vehicles <u>B60V</u>; {cycle

suspensions B62K 25/00})

#### **NOTES**

- 1. Attention is drawn to the Note following the title of class <u>B60</u>.
- 2. {Indexing codes B60G 2200/00 B60G 2800/00 are dedicated to particular aspects of suspension arrangements:
  - <u>B60G 2200/00</u> refers to the type of suspension arrangement;
  - <u>B60G 2202/00</u> refers to the suspension elements used (springs, dampers and actuators);
  - <u>B60G 2204/00</u> refers to mounting features of suspension elements;
  - <u>B60G 2206/00</u> refers to constructional and manufacturing details of suspension elements;
  - <u>B60G 2300/00</u> refers to the type of vehicle;
  - B60G 2400/00 B60G 2800/00 refer to the electronic control of suspension arrangements, whereby:
    - <u>B60G 2400/00</u> refers to input parameters of the control;
    - <u>B60G 2401/00</u> refers to types of sensors used;
    - <u>B60G 2500/00</u> refers to the controlled action or device;
    - <u>B60G 2600/00</u> refers to particular details of the control system;
    - <u>B60G 2800/00</u> refers to the result to be achieved by the control action.}

#### 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:

B60G 23/00 covered by <u>B60G 17/0165</u>

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.

1/00	Suspensions with rigid connection between axle and frame	3/16	• • • the arm itself being resilient, e.g. leaf spring {(B60G 7/003 takes precedence)}
1/02	<ul> <li>with continuous axle</li> </ul>	3/18	• with two or more pivoted arms, e.g. parallelogram
1/04	• with divided axle	3/185	• • {the arms being essentially parallel to the longitudinal axis of the vehicle}
3/00	Resilient suspensions for a single wheel (pivoted suspensions arms per se, attachment thereof to sprung part of the vehicle, buffer means for limiting movement of arms B60G 7/00; {rigid axle suspensions B60G 9/00;} characterised by arrangement, location or type of springs B60G 11/00)	3/20 3/202 3/205	<ul> <li>all arms being rigid</li> <li>{having one longitudinal arm and two parallel transversal arms, e.g. dual-link type strut suspension}</li> <li>{with the pivotal point of the longitudinal</li> </ul>
3/01	• the wheel being mounted for sliding movement, e.g. in or on a vertical guide (camber maintaining means B60G 3/26)		arm being on the vertical plane defined by the wheel rotation axis and the wheel ground contact point}
3/02	• with a single pivoted arm	3/207	• • • {the arms being essentially parallel to the
3/04	• • the arm being essentially transverse to the	2/22	longitudinal axis of the vehicle}
	longitudinal axis of the vehicle	3/22	a rigid arm forming the axle housing
3/06	the arm being rigid	3/225	• • • • {the arm being of the trailing wishbone type}
3/08	the arm forming the axle housing	3/24	a rigid arm being formed by the live axle
3/10	• • • the arm itself being resilient, e.g. leaf spring {(B60G 7/003 takes precedence)}		{( <u>B60G 3/22</u> , <u>B60G 3/26</u> take precedence; driving arrangements <u>B60K 17/22</u> , <u>B60K 17/30</u> , <u>B60K 17/32</u> )}
3/12	• • the arm being essentially parallel to the longitudinal axis of the vehicle		DOOK 17/30, DOOK 17/32) }
3/14	the arm being rigid		
3/145	• • • { the arm forming the axle housing }		

3/26	• • • Means for maintaining substantially-constant wheel camber during suspension movement {; Means for controlling the variation of the wheel position during suspension movement (B60G 3/202, B60G 3/22,	7/04	• Buffer means for limiting movement of arms {(stops limiting fluid passage in fluid dampers F16F 9/49; stroke-limiting stops for fluid dampers F16F 9/58)}
	B60G 7/003, B60G 7/006 take precedence; means for adjusting camber, castor, or toe-in B62D 17/00)}	9/00	Resilient suspensions of a rigid axle or axle housing for two or more wheels {(the axle being a part of a set of tandem axles B60G 5/00-B60G 5/065;
3/265	• • • {with a strut cylinder contributing to the suspension geometry by being linked to the wheel support via an articulation}	9/003	with leaf springs <u>B60G 11/02-B60G 11/08</u> )} . {the axle being rigidly connected to a trailing guiding device}
3/28	• at least one of the arms itself being resilient, e.g. leaf spring {( <u>B60G 7/003</u> takes precedence)}	9/006	• {the axle being connected to two trailing arms with only one of them being rigidly connected to the
3/285	• • • {the arm being essentially parallel to the longitudinal axis of the vehicle}	9/02	<ul><li>axle}</li><li>the axle or housing being pivotally mounted on the vehicle {, e.g. the pivotal axis being parallel to the</li></ul>
5/00	Resilient suspensions for a set of tandem wheels or axles having interrelated movements		longitudinal axis of the vehicle ( <u>B60G 9/003</u> takes precedence)}
5/005	• {the wheels being fixed on a non-pivotal structure,	9/022	• • {the axle having an imaginary pivotal point}
	e.g. a sliding mount}	9/025	• • • {using linkages for the suspension of the axle
5/01	<ul> <li>the set being characterised by having more than two successive axles</li> </ul>	9/027	allowing its lateral swinging displacement}  • • {the axle having either a triangular, a "T" or "U"
5/02	<ul> <li>mounted on a single pivoted arm {, e.g. the arm being rigid}</li> </ul>		shape and being directly articulated with the chassis only by its middle apex, e.g. De Dion
5/025	• • {the arm being transverse to the longitudinal axis of the vehicle}	9/04	suspension} . the axle or housing not being pivotally mounted on
5/03	• • the arm itself being resilient, e.g. a leafspring (B60G 5/053 takes precedence)	11/00	the vehicle {( <u>B60G 9/003</u> takes precedence)}
5/04	<ul> <li>with two or more pivoted arms, the movements of which are resiliently interrelated {, e.g. the arms being rigid}</li> </ul>	11/00	Resilient suspensions characterised by arrangement, location or kind of springs (single wheel suspension by pivoted arm resilient in itself <u>B60G 3/00</u> ; adjusting spring characteristic
5/043	• • {the arms being transverse to the longitudinal axis of the vehicle}		<u>B60G 17/00</u> ; springs <u>per se</u> <u>F16F</u> )
5/047	• at least one arm being resilient, e.g. a leafspring (B60G 5/053 takes precedence)		NOTE  The term "torsion bar" includes torsion tube or
5/053	<ul> <li>a leafspring being used as equilibration unit between two axle-supporting units</li> </ul>		the like. The term "rubber" includes synthetic substitutes of a similar nature.
5/06	<ul><li>the arms turning on a common pivot {, e.g. being rigid}</li></ul>	11/003	• {Lubrication devices for springs and dampers
5/065	{at least one arm being resilient}		(vehicle lubrication devices in general <u>B60R 17/00</u> ; for leaf springs in general <u>F16F 1/24</u> )}
7/00	<b>Pivoted suspension arms; Accessories thereof</b> (means for maintaining substantially constant wheel camber during suspension movement <u>B60G 3/26</u> ;	11/006	• {Centrally located spring units, e.g. all wheels being connected to a common spring unit ( <u>B60G 5/00</u> , <u>B60G 17/033</u> take precedence)}
	{articulations for wheels <u>B60G 5/00</u> ; leaf spring attaching means <u>B60G 11/10</u> , <u>B60G 11/12</u> ; trailing	11/02	<ul> <li>having leaf springs only {(<u>B60G 11/006</u> takes precedence)}</li> </ul>
	arm twist beam axle attaching means <u>B60G 21/052;</u>	11/025	<ul><li>• {reparing devices for leaf springs}</li></ul>
7/001	<ul> <li>articulations in general <u>F16C</u>})</li> <li>{Suspension arms, e.g. constructional features</li> </ul>	11/04	• arranged substantially parallel to the longitudinal axis of the vehicle
7/003	( <u>B60G 7/006</u> takes precedence)}  • • {of adjustable length}	11/06	• arranged obliquely to the longitudinal axis of the
7/005	• { Fall joints (B60G 7/006 takes precedence; for	11/00	vehicle
77003	steering linkage <u>B62D 7/16</u> ; ball joints <u>per se</u> F16C 11/06)}	11/08	arranged substantially transverse to the longitudinal axis of the vehicle
7/006	• {Attaching arms to sprung or unsprung part of vehicle, characterised by comprising attachment means controlled by an external actuator, e.g. a fluid	11/10	<ul> <li>characterised by means specially adapted for attaching the spring to axle or sprung part of the vehicle</li> </ul>
	or electrical motor ( <u>B62D 7/146</u> takes precedence)}	11/107	Sliding or rolling mountings
7/008	• {Attaching arms to unsprung part of vehicle (B60G 7/005, B60G 7/006 take precedence)}	11/113	• • • Mountings on the axle ( <u>B60G 11/107</u> takes precedence)
7/02	Attaching arms to sprung part of vehicle	11/12	Links, pins, or bushes
02	$\{(\underline{B60G7/006} \text{ takes precedence})\}$	11/125	{Multiple-eye arrangements}
	* * * * * * * * * * * * * * * * * * * *	11/14	• having helical, spiral or coil springs only {(B60G 11/006 takes precedence)}
		11/15	• Coil springs resisting deflection by winding up

11/16	characterised by means specially adapted for attaching the spring to axle or sprung part of the	11/54	• • • with rubber springs arranged within helical, spiral or coil springs
11/18	vehicle <ul> <li>having torsion-bar springs only {(B60G 11/006)</li> </ul>	11/56	<ul> <li>having helical, spiral or coil springs, and also fluid springs</li> </ul>
	takes precedence; having rubber springs of the	11/58	arranged coaxially
	torsional-energy-absorption type <u>B60G 11/23</u> )}	11/60	• • having both rubber springs and torsion-bar springs
	<u>NOTE</u>	11/62	<ul> <li>having both rubber springs and fluid springs</li> </ul>
	<u>B60G 11/184</u> takes precedence over <u>B60G 11/181</u> - <u>B60G 11/183</u>	11/64	having both tubber springs and fluid springs     having both torsion-bar springs and fluid springs
11/181	<ul> <li>{arranged in a plane parallel to the longitudinal axis of the vehicle}</li> </ul>	13/00	Resilient suspensions characterised by arrangement, location or type of vibration
11/182	<ul> <li>{arranged in a plane oblique to the longitudinal axis of the vehicle}</li> </ul>		dampers (adjusting damping effect <u>B60G 17/06</u> ; vibration dampers <u>per se F16F</u> )
11/183	• • {arranged in a plane transverse to the longitudinal axis of the vehicle}	13/001	• {Arrangements for attachment of dampers (mounting arrangements of combined spring and
11/184	<ul> <li>{the torsion-bar consisting of a bundle of torsion elements}</li> </ul>		damper units <u>B60G 15/00</u> ; mountings of fluid dampers in general <u>F16F 9/54</u> )}
11/185	• • • {the elements being rods}	13/003	• • {characterised by the mounting on the vehicle
11/186	• • • { of hexagonal cross-section }	13/003	body or chassis of the damper unit}
11/187	• • { the elements being leaf-springs loaded by twisting }	13/005	{characterised by the mounting on the axle or suspension arm of the damper unit}
11/188	• • • {the elements being cables}	13/006	• • • {on the stub axle}
11/189	{the torsion spring consisting of a tube with a slit}	13/008	<ul> <li>(on the state date)</li> <li>(involving use of an auxiliary cylinder (B60G 13/006 takes precedence))</li> </ul>
11/20	characterised by means specially adapted for	13/02	<ul> <li>having dampers dissipating energy, e.g. frictionally</li> </ul>
11,20	attaching the spring to axle or sprung part of the vehicle	13/04	mechanically, e.g. having frictionally-engaging springs as damping elements
11/22	• having rubber springs only {(B60G 11/006 takes	13/06	of fluid type
	precedence)}	13/08	hydraulic
11/225	• • {Neidhart type rubber springs}	13/08	pneumatic
11/23	• of the torsional-energy-absorption type	13/10	-
11/24	characterised by means specially adapted for	13/12	<ul> <li>quasi-fluid, i.e. having powdered medium</li> <li>having dampers accumulating utilisable energy, e.g.</li> </ul>
	attaching the spring to axle or sprung part of the vehicle	13/14	compressing air {(fluid springs with an accumulator B60G 11/30)}
11/26	<ul> <li>having fluid springs only, e.g. hydropneumatic springs ({B60G 11/006,} B60G 15/12 take</li> </ul>	13/16	<ul> <li>having dynamic absorbers as main damping means,</li> <li>i.e. spring-mass system vibrating out of phase</li> </ul>
	precedence)	13/18	• combined with energy-absorbing means
11/265	• • {hydraulic springs}		
11/27	wherein the fluid is a gas	15/00	Resilient suspensions characterised by
11/28	characterised by means specially adapted for attaching the spring to axle or sprung part of the		arrangement, location or type of combined spring and vibration damper, e.g. telescopic type (combined spring and vibration-dampers per se F16F)
11/20	vehicle	15/02	<ul> <li>having mechanical spring</li> </ul>
11/30	. having pressure fluid accumulator therefor, e.g.	15/04	<ul> <li>naving incentancal spring</li> <li>and mechanical damper {or dynamic damper}</li> </ul>
	accumulator arranged in vehicle frame {(dampers	15/04	<ul> <li>and fluid damper</li> <li>and fluid damper</li> </ul>
11/32	accumulating utilisable energy <u>B60G 13/14</u> )} • having springs of different kinds {( <u>B60G 11/006</u> takes precedence)}	15/061	{with a coil spring being mounted inside the damper}
11/34	including leaf springs	15/062	• • • { the spring being arranged around the damper
11/34	and also helical, spiral or coil springs	13/002	(B60G 15/061, B60G 15/067, B60G 15/07 take
11/38	<ul><li>and also rielear, spirar of con springs</li><li>and also rubber springs</li></ul>		precedence)}
11/38	the rubber springs being attached to the axle	15/063	• • • {characterised by the mounting of the spring
		-2, 222	on the damper ( <u>B60G 15/065</u> , <u>B60G 15/066</u>
11/42	• • • the rubber springs being attached to sprung part of the vehicle	15/065	take precedence)} {characterised by the use of a combination of
11/44	and also torsion-bar springs	12, 302	springs}
11/46	and also fluid springs	15/066	• • • { the spring being different from a coil spring
11/465	• • • • {with a flexible wall}	13,000	(B60G 15/065 takes precedence)}
11/48	. not including leaf springs	15/067	• • • {characterised by the mounting on the vehicle
11/50	<ul> <li>having helical, spiral or coil springs, and also torsion-bar springs</li> </ul>	15/068	body or chassis of the spring and damper unit}  {specially adapted for MacPherson strut-type}
11/52	<ul> <li>having helical, spiral or coil springs, and also rubber springs</li> </ul>	15/000	suspension}

15/07	the damper being connected to the stub axle and the spring being arranged around the damper {(B60G 15/068 takes precedence)}	17/0195	<ul> <li>characterised by the regulation being combined with other vehicle control systems {(conjoint control of vehicle sub-units including control of</li> </ul>
15/08	<ul> <li>having fluid spring</li> </ul>		suspension systems <u>B60W 10/22</u> )}
15/10	and mechanical damper {or dynamic damper}	17/02	<ul> <li>Spring characteristics {, e.g. mechanical springs</li> </ul>
15/12	and fluid damper		and mechanical adjusting means}(B60G 17/005,
15/14	the damper being connected to the stub axle		B60G 17/015 take precedence)
13/14		17/021	• • {the mechanical spring being a coil spring
	and the spring being arranged around the	177021	(B60G 17/0272 takes precedence)
	damper	17/022	The state of the s
17/00	Resilient suspensions having means for adjusting	17/023	• • {the mechanical spring being a leaf spring
17700	the spring or vibration-damper characteristics,		$(\underline{B60G 17/0275} \text{ takes precedence})$
		17/025	<ul> <li>{ the mechanical spring being a torsion spring</li> </ul>
	for regulating the distance between a supporting		( <u>B60G 17/0277</u> , <u>B60G 21/0553</u> take precedence)}
	surface and a sprung part of vehicle or for	17/027	Mechanical springs regulated by fluid means
	locking suspension during use to meet varying		(B60G 17/033 takes precedence)
	vehicular or surface conditions, e.g. due to speed	17/0272	• • {the mechanical spring being a coil spring}
	or load {(levelling or stabilising systems for tippers		
	<u>B60P 1/045</u> )}	17/0275	• • • {the mechanical spring being a leaf spring}
17/002	• {by temperature regulation of the suspension unit,	17/0277	• • • {the mechanical spring being a torsion spring
	e.g. heat operated systems}		$(\underline{B60G\ 21/0553}\ takes\ precedence)$
17/005	• Suspension locking arrangements {(for retractable	17/033	characterised by regulating means acting on more
17/003			than one spring
1=101=	wheels <u>B62D 61/12</u> )}	17/04	fluid spring characteristics
17/015	<ul> <li>the regulating means comprising electric or</li> </ul>	17/0408	• • • {details, e.g. antifreeze for suspension fluid,
	electronic elements ({ <u>B60G 17/002</u> }, <u>B60G 17/005</u>	17/0408	
	take precedence)	4=10.44	pumps, retarding means <u>per se}</u>
17/0152	• • {characterised by the action on a particular	17/0416	• • • {regulated by varying the resiliency of
	type of suspension unit (B60G 17/01941 takes		hydropneumatic suspensions ( <u>B60G 17/048</u>
	precedence)}		takes precedence)}
17/0155	{pneumatic unit}	17/0424	• • • {by varying the air pressure of the
17/0157	• • {predifficted unit} • • • {non-fluid unit, e.g. electric motor}		accumulator}
		17/0432	• • • {by varying the number of accumulators
17/016	characterised by their responsiveness, when the		connected to the hydraulic cylinder
	vehicle is travelling, to specific motion, a specific		( <u>B60G 17/0424</u> takes precedence)}
	condition, or driver input {( <u>B60G 17/017</u> takes	17/044	Self-pumping fluid springs (pumps for liquids)
	precedence)}	1 //044	
17/0161	• • • {mainly during straight-line motion		<u>F04</u> )
	( <u>B60G 17/0164</u> takes precedence)}	17/048	• • • with the regulating means inside the fluid
17/0162	{mainly during a motion involving steering		springs ( <u>B60G 17/044</u> takes precedence)
	operation, e.g. cornering, overtaking	17/0485	• • • { the springs being pneumatic springs with a
	( <u>B60G 17/0164</u> takes precedence)}		flexible wall, e.g. with levelling valves}
17/0163	• • • {the control involving steering geometry, e.g.	17/052	• • • Pneumatic spring characteristics ( <u>B60G 17/048</u>
17/0103			takes precedence {; valves per se F16K})
17/01/4	four-wheel steering}	17/0521	• • • { the spring having a flexible wall }
17/0164	• • • {mainly during accelerating or braking}		{Regulating distributors or valves for
17/0165	• • • to an external condition, e.g. rough road	17/0523	
	surface, side wind		pneumatic springs}
17/017	characterised by their use when the vehicle is	17/0525	• • • • {Height adjusting or levelling valves}
	stationary, e.g. during loading, engine start-up or	17/0526	• • • • {Distributor units, e.g. for retractable
	switch-off		wheels (vehicles with retractable wheels
17/018	• • characterised by the use of a specific signal		per se <u>B62D 61/12</u> )}
17/016	treatment or control method	17/0528	• • • • • {Pressure regulating or air filling valves}
1=10104		17/056	Regulating distributors or
17/0182	• • • {involving parameter estimation, e.g. observer,	17/030	valves {for hydropneumatic
	Kalman filter}		* *
17/0185	• • • for failure detection		systems}( <u>B60G 17/044</u> - <u>B60G 17/048</u> ,
17/019	characterised by the type of sensor or the		{B60G 17/0416} take precedence; {Fluid
	arrangement thereof {(B60G 17/01941 takes		interconnection systems to control vehicle
	precedence)}		inclination <u>B60G 21/06</u> , <u>B60G 21/10</u> }; valves
17/01908	• • {Acceleration or inclination sensors		<u>per se</u> <u>F16K</u> )
17/01/00	(characterised by the use of gyroscopes	17/0565	• • • {Height adjusting valves}
	B60G 21/08)}	17/06	• Characteristics of dampers {, e.g. mechanical
17/01015			dampers}( <u>B60G 17/015</u> takes precedence)
	{Mercury-switch type devices}	17/08	Characteristics of fluid dampers (adjusting fluid
	• • • {Pendulum-type devices}	1,700	dampers in general F16F 9/44 - F16F 9/53)
17/01933	• • {Velocity, e.g. relative velocity-displacement		dumpers in general 1 101 //77 - 1 101 //33)
	sensors}		
17/01941	• • • {characterised by the use of piezoelectric		
	elements, e.g. sensors or actuators}		
	, 5		

21/00	Interconnection systems for two or more	2200/14 with lateral arms
	resiliently-suspended wheels, e.g. for stabilising	2200/141 with one trailing arm and one lateral arm only
	a vehicle body with respect to acceleration,	2200/142 with a single lateral arm, e.g. MacPherson type
	deceleration or centrifugal forces (B60G 17/033 takes precedence {; levelling or stabilising systems	2200/1422 the lateral arm being resilient
	for tippers <u>B60P 1/045</u> }; steering deflectable wheels	2200/1424 the lateral arm having an L-shape
	combined with means for inwardly inclining the vehicle body on bends <u>B62D 9/02</u> )	2200/143 with lateral arms crossing each other, i.e. X formation as seen along the longitudinal axis
21/002	• {longitudinally}	2200/144 with two lateral arms forming a parallelogram
21/002	• {transversally}	2200/1442 including longitudinal rods
21/003	<ul><li> {transversarry}</li><li> {means for adjusting the wheel inclination}</li></ul>	2200/154 the lateral arm having an L-shape
21/007	<ul> <li>the ans for adjusting the wheel inclination?</li> <li>permanently interconnected</li> </ul>	2200/156 wishbone-type arm formed by two links
21/023	• {longitudinally}	defining a virtual apex
21/025	• {transversally}	2200/17 with a strut contributing to the suspension
21/020	. mechanically	geometry by being articulated onto the wheel
21/045	between wheels on different axles on the same	support  Multilink avanancions o a electricinometric
21/043	side of the vehicle, i.e. the left or the right side	2200/18 Multilink suspensions, e.g. elastokinematic arrangements
21/05	between wheels on the same axle but on	2200/182 with one longitudinal arm or rod and lateral
	different sides of the vehicle, i.e. the left and	rods
	right wheel suspensions being interconnected	2200/184 Assymetric arrangements
21/051	{Trailing arm twist beam axles}	2200/20 . Semi-rigid axle suspensions
21/052	{Mounting means therefor}	2200/21 . Trailing arms connected by a torsional beam, i.e.
21/053	{adjustable}	twist-beam axles
21/055	Stabiliser bars	2200/22 . Trailing arms connected by a straight torsion by
21/0551	• • • • {Mounting means therefor}	2200/23 . Trailing arms connected by a U-shaped torsion
21/0553	• • • • {adjustable}	bar
21/0555	• • • • • { including an actuator inducing	2200/24 Interconnected split axles
	vehicle roll}	2200/30 • Rigid axle suspensions
21/0556	(B60G 21/0555 takes precedence)	2200/31 • • with two trailing arms rigidly connected to the axle
21/0558	• • • • • • {including means varying the stiffness of the stabiliser ( <u>B60G 21/0556</u> takes	2200/312 with one of the two trailing arms being rigidly connected to the axle
	precedence)}	2200/314 with longitudinally arranged arms articulated or
21/06	fluid	the axle
21/067	between wheels on different axles on the same	2200/315 at least one of the arms having an A or V share
	side of the vehicle, i.e. the left or the right side	2200/318 two or more axles being mounted on a
21/073	between wheels on the same axle but on	longitudinal rocking or walking beam
	different sides of the vehicle, i.e. the left and	2200/32 pivoted
	right wheel suspensions being interconnected	2200/322 with a single pivot point and a straight axle
21/08	characterised by use of gyroscopes (gyroscopes)	2200/324 with a single pivot point and a triangular "T"
	for stabilising vehicle bodies without controlling	"U"-shaped axle, e.g. DeDion arrangement
21/10	suspension arrangements <u>B62D 37/06</u> )	2200/326 with two laterally spaced pivots, e.g. trailing
21/10	<ul> <li>not permanently interconnected, e.g. operative only on acceleration, only on deceleration or only at off-</li> </ul>	frame
	straight position of steering	2200/34 Stabilising mechanisms, e.g. for lateral stability
21/103	• {longitudinally}	2200/341 Panhard rod
21/105	• {transversally}	2200/3415 Scott-Russel linkage
21/100	· · (transversarry)	2200/342 Watt linkage
99/00	Subject matter not provided for in other groups of this subclass	2200/343 with an axle suspended by two pivoted rods in "V"-arrangement, the rods being coupled at it
99/002	• {Suspension details of the suspension of the vehicle	apex
	body on the vehicle chassis}	2200/344 with an axle suspended by two pivoted rods in
99/004	• {Other suspension arrangements with rubber springs}	an inverted "V"-arrangement, the rods being coupled at its apex
99/006	• {Other suspension arrangements with metallic springs}	2200/345 with an axle suspended by two pivoted rods in "X"-arrangement
99/008	• {Other suspension arrangements with fluid springs}	2200/346 with an axle suspended by two laterally
		displaced rods having an imaginary point of
200/00	Indexing codes relating to suspension types	intersection above the wheel axis
200/10	. Independent suspensions	2200/347 with an axle suspended by two laterally
200/13	with longitudinal arms only	displaced rods having an imaginary point of
200/132	with a single trailing arm	intersection below the wheel axis
200/1322	with a wishbone or triangular arm	• Indexing codes relating to the wheels in the
200/1322	C	suspensions

2200/42	D: 1.1.1.1	2202/222	4 1 1 2 2 111
2200/42	. Driven wheels or dead axles	2202/322	the damper being controllable
2200/422	Driving wheels or live axles	2202/40	Type of actuator
2200/44	• • steerable	2202/41	Fluid actuator
2200/445	Self-steered wheels	2202/412	Pneumatic actuator
2200/446	Non-steerable wheels	2202/413	Hydraulic actuator
2200/46	camber angle	2202/414	using electrohydraulic valves
2200/462	Toe-in/out	2202/415	using other types of valves, e.g. mechanically
2200/4622	Alignment adjustment		operated valves
2200/464	Caster angle	2202/416	using a pump, e.g. in the line connecting the
2200/466	Damping acceleration or deceleration torque on		lower chamber to the upper chamber of the
	wheel axle	2202/12	actuator
2202/00	Indexing codes relating to the type of spring,	2202/42	Electric actuator
2202/00	damper or actuator	2202/422	Linear motor
2202/10	Type of spring	2202/424	electrostrictive materials, e.g. piezoelectric
2202/11	. Leaf spring	2202/42	actuator
2202/112	longitudinally arranged	2202/43	. Mechanical actuator
2202/114	transversally arranged	2202/432	Spring motor
2202/116	having a "C" form loaded only at its ends	2202/44	. Axial actuator, e.g. telescopic
2202/110	transversally to its central axis	2202/441	• where axial movement is translated to rotation
2202/117	having a "C" form loaded parallel to its central	2202/442	of the connected end part
	axis	2202/442	. Rotary actuator
2202/12	Wound spring	2202/45	• Other types, e.g. external jets for stability with
2202/122	subjected to tension	2202/49	particular characteristics
2202/13	Torsion spring	2202/49	. Other type, e.g. external jets for stability
2202/132	comprising a longitudinal torsion bar and/or	2204/00	Indexing codes related to suspensions per se or to
	tube		auxiliary parts
2202/134	comprising a transversal torsion bar and/or tube	2204/10	Mounting of suspension elements
2202/135	Stabiliser bar and/or tube	2204/11	Mounting of sensors thereon
2202/1351	comprising at least two stabiliser bars	2204/111	on pneumatic springs
	parallel to each other	2204/112	• • on dampers, e.g. fluid dampers
2202/136	Twist-beam type arrangement	2204/113	Tyre related sensors
2202/1362	including a second torsional element, e.g.	2204/114	Steering column mounted sensors
	second beam, stabiliser bar or tube	2204/115	Wheel hub bearing sensors
2202/14	. Plastic spring, e.g. rubber	2204/116	Sensors coupled to the suspension arm
2202/141	subjected to tension	2204/1162	directly mounted on the suspension arm
2202/142	subjected to shear, e.g. Neidhart type	2204/12	Mounting of springs or dampers
2202/1422	Axial	2204/121	Mounting of leaf springs
2202/1424	Torsional	2204/122	Mounting of torsion springs
2202/143	subjected to compression	2204/1222	Middle mounts of stabiliser on vehicle body
2202/144	of rotary type		or chassis
2202/15	Fluid spring	2204/1224	End mounts of stabiliser on wheel
2202/152	Pneumatic spring		suspension
2202/1522	of rotary type	2204/1226	
2202/1524	with two air springs per wheel, arranged		arrangement
	before and after the wheel axis	2204/124	Mounting of coil springs
2202/154	with an accumulator		on a damper, e.g. MacPerson strut
2202/16	Magnetic spring	2204/12422	anchoring the end coils on the spring
2202/20	. Type of damper		support plate
2202/21	with two dampers per wheel, arranged before and		on a suspension arm
	after the wheel axis		on twist beam axles
2202/22	Rotary Damper	2204/125	Mounting of rubber type springs
2202/23	Friction Damper	2204/126	Mounting of pneumatic springs
2202/24	Fluid damper	2204/1262	on a damper
2202/242	Pneumatic damper	2204/127	with the mounting of springs or dampers
2202/25	Dynamic damper		moving so that the direction of the related force
2202/30	Spring/Damper and/or actuator Units		vector can be changed, thus contributing to a
2202/31	• • with the spring arranged around the damper, e.g.		variation of the loading of the wheel
	MacPherson strut	2204/128	Damper mount on vehicle body or chassis
2202/312	The spring being a wound spring	2204/129	Damper mount on wheel suspension or knuckle
2202/314	The spring being a pneumatic spring	2204/13	• • • with the spring, i.e. coil spring, or damper
			horizontally mounted
2202/32	The spring being in series with the damper and/or	220111	horizontally mounted
2202/32	The spring being in series with the damper and/or actuator	2204/1302	inside the vehicle frame

2204/14 Mounting of suspension arms	2204/424 Mechanisms for force adjustment, e.g. constant
	force mechanisms
2204/143 on the vehicle body or chassis 2204/1431 of an L-shaped arm	2204/43 • Fittings, brackets or knuckles
	2204/4302 for fixing suspension arm on the vehicle body
2204/1432 by vertical bolts or studs 2204/1434 in twist-beam axles arrangement	or chassis
	2204/4304 Bracket for lower cylinder mount of
2204/147 on the vehicle engine body 2204/148 on the unsprung part of the vehicle, e.g. wheel	McPherson strut
knuckle or rigid axle	2204/4305 Bracket for mounting of hydraulic lines on a
2204/1482 on rigid axle by elastic mount	damper cylinder
2204/1484 on an intermediate upright strut upon which	2204/4306 Bracket or knuckle for rigid axles, e.g. for
the stub axle is pivoted	clamping
2204/149 Mounting of rigid axle on wheel knuckle	2204/43065 U-shaped bolts crossing each other
2204/15 . Mounting of subframes	2204/4307 Bracket or knuckle for torsional springs
2204/16 Mounting of vehicle body on chassis	2204/4308 Protecting guards, e.g. for rigid axle damage
2204/162 Cabins, e.g. for trucks, tractors	protection
2204/17 Mounting of bogies, e.g. for trailers	2204/44 Centering or positioning means
2204/18 Mounting of vehicle engines	2204/4402 Spacers or shims
2204/182 Electric motor on wheel support	2204/4404 Retainers for holding a fixing element, e.g.
2204/19 Mounting of transmission differential	bushing, nut, bolt etc., until it is tightly fixed in
2204/20 Mounting of accessories, e.g. pump, compressor	position
2204/201 of fluid lines	2204/45 Stops limiting travel
2204/202 • • • of cables	2204/4502 using resilient buffer
2204/2022 using a suspension element (e.g. link, damper	2204/45021 for limiting upper mount movement of a
or spring) as part of the electrical circuitry	McPherson strut
2204/22 . Linking of trailers to trucks, e.g. truck-trailer	<ul> <li>2204/4504 using cable or band to prevent extension</li> <li>2204/46 Means for locking the suspension</li> </ul>
connections	2204/4602 Locking of a McPerson type strut upper mount
2204/30 In-wheel mountings	on the vehicle body
2204/40 • Auxiliary suspension parts; Adjustment of	2204/4604 mechanically, e.g. using a hook as anticreep
suspensions	mechanism
2204/41 • Elastic mounts, e.g. bushings	2204/4605 hydraulically, e.g. interrupting communication
2204/4102 having a pin or stud extending perpendicularly	between the chambers of a hydraulic cylinder
to the axis of the elastic mount	2204/47 Means for retracting the suspension
2204/4103 having an eccentrically located inner sleeve	2204/4702 pneumatically
2204/4104 B 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2204/4104 Bushings having modified rigidity in particular	2204/61 • Adjustable during maintenance
directions	
directions 2204/41042 by using internal cam surfaces	2204/61 • Adjustable during maintenance
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket	<ul> <li>2204/61 • Adjustable during maintenance</li> <li>2204/62 • Adjustable continuously, e.g. during driving</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts,	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 front and rear unit</li> <li>2204/8102 diagonally arranged</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts,	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> <li>2204/8302 . Mechanical</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> <li>2204/8302 . Mechanical</li> <li>2204/83022 using cables, wires, belts or chains</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts	<ul> <li>2204/61 <ul> <li>Adjustable during maintenance</li> <li>2204/62</li> <li>Adjustable continuously, e.g. during driving</li> </ul> </li> <li>2204/80 <ul> <li>Interactive suspensions; arrangement affecting more than one suspension unit</li> </ul> </li> <li>2204/81 <ul> <li>front and rear unit</li> </ul> </li> <li>2204/82 <ul> <li>left and right unit on same axle</li> </ul> </li> <li>2204/83</li> <li>Type of interconnection</li> </ul> <li>2204/8302 <ul> <li>Mechanical</li> </ul> </li> <li>2204/8304</li> <li>using cables, wires, belts or chains</li> <li>using a fluid</li>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/41062 hydromounts; interconnected mounts	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> <li>2204/8302 . Mechanical</li> <li>2204/83022 using cables, wires, belts or chains</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4106 hydromounts; interconnected mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> <li>2204/8302 . Mechanical</li> <li>2204/8304 . using cables, wires, belts or chains</li> <li>2204/8304 . using a fluid</li> <li>2204/8306 . Permanent; Continuous</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4106 hydromounts; interconnected mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> <li>2204/8302 . Mechanical</li> <li>2204/8304 . using cables, wires, belts or chains</li> <li>2204/8304 . Permanent; Continuous</li> <li>2206/00 Indexing codes related to the manufacturing of</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4106 hydromounts; interconnected mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416	<ul> <li>2204/61 . Adjustable during maintenance</li> <li>2204/62 . Adjustable continuously, e.g. during driving</li> <li>2204/80 . Interactive suspensions; arrangement affecting more than one suspension unit</li> <li>2204/81 . front and rear unit</li> <li>2204/8102 . diagonally arranged</li> <li>2204/82 . left and right unit on same axle</li> <li>2204/83 . Type of interconnection</li> <li>2204/8302 . Mechanical</li> <li>2204/8304 . using cables, wires, belts or chains</li> <li>2204/8304 . using a fluid</li> <li>2204/8306 . Permanent; Continuous</li> </ul>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4106 hydromounts; interconnected mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418	<ul> <li>2204/61 <ul> <li>Adjustable during maintenance</li> <li>2204/62</li> <li>Adjustable continuously, e.g. during driving</li> </ul> </li> <li>2204/80 <ul> <li>Interactive suspensions; arrangement affecting more than one suspension unit</li> </ul> </li> <li>2204/81 <ul> <li>front and rear unit</li> </ul> </li> <li>2204/82 <ul> <li>left and right unit on same axle</li> </ul> </li> <li>2204/83 <ul> <li>Type of interconnection</li> </ul> </li> <li>2204/8302 <ul> <li>using cables, wires, belts or chains</li> </ul> </li> <li>2204/8304 <ul> <li>using a fluid</li> </ul> </li> <li>2204/8306</li> <li>Permanent; Continuous</li> </ul> <li>2206/00 <ul> <li>Indexing codes related to the manufacturing of suspensions: constructional features, the materials</li> </ul> </li>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4106 hydromounts; interconnected mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418 Bearings, e.g. ball or roller bearings  2204/419 Planetary or epicyclic gears	<ul> <li>2204/61 <ul> <li>Adjustable during maintenance</li> <li>2204/62</li> <li>Adjustable continuously, e.g. during driving</li> </ul> </li> <li>2204/80 <ul> <li>Interactive suspensions; arrangement affecting more than one suspension unit</li> </ul> </li> <li>2204/81 <ul> <li>front and rear unit</li> </ul> </li> <li>2204/82 <ul> <li>left and right unit on same axle</li> </ul> </li> <li>2204/83 <ul> <li>Type of interconnection</li> </ul> </li> <li>2204/8302 <ul> <li>whechanical</li> </ul> </li> <li>2204/8304</li> <li>using cables, wires, belts or chains</li> </ul> <li>2204/8306</li> <li>Permanent; Continuous</li> <li>2206/00  <ul> <li>Indexing codes related to the manufacturing of suspensions: constructional features, the materials used, procedures or tools</li> </ul> </li> <li>2206/01  <ul> <li>Constructional features of suspension elements, e.g. arms, dampers, springs</li> </ul> </li>
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41040 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4106 hydromounts; interconnected mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418	2204/61     Adjustable during maintenance     Adjustable continuously, e.g. during driving     Interactive suspensions; arrangement affecting more than one suspension unit     front and rear unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions unit     interactive suspension elements, e.g. arms, dampers, springs     interactive suspensions, arrangement affecting more than one suspension unit     interactive suspension unit     interactive suspension elements, e.g. arms, dampers, springs     interactive suspensions, arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspension unit     inte
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directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418 Bearings, e.g. ball or roller bearings  2204/419 Planetary or epicyclic gears  2204/419 rack and pinion  2204/419 worm gears  2204/419 worm gears  2204/42 Joints with cam surfaces	2204/61     Adjustable during maintenance     Adjustable continuously, e.g. during driving     Interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions arrangement affecting more than one suspension unit     interactive suspension unit     interactive suspensions arrangement affecting more than one suspension unit     interactive suspension unit     interactive suspensions, arrangement affecting more than one suspension axial procedures     interactive suspension experiment affecting more than one suspensions     interactive suspension experiment affecting more than one suspension unit      interactive suspension unit
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directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/417 Bearings, e.g. ball or roller bearings  2204/419 Planetary or epicyclic gears  2204/419 rack and pinion  2204/419 worm gears  2204/42 Joints with cam surfaces  2204/421 . Pivoted lever mechanisms for mounting suspension elements, e.g. Watt linkage	2204/61     Adjustable during maintenance     Adjustable continuously, e.g. during driving     Interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions unit     interactive suspensions unit     interactive suspensions unit     interactive suspension unit     interactive suspension unit     interactive suspension unit     interactive suspension elements, e.g. arms, dampers, springs     interactive suspensions on subframes     interactive suspensions on subframes     interactive suspensions on subframes     integrated distribution control units with valves, accumulators, PCB's or the like
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/410 Cardan joints  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418 Bearings, e.g. ball or roller bearings  2204/419	2204/61     Adjustable during maintenance     Adjustable continuously, e.g. during driving     Interactive suspensions; arrangement affecting more than one suspension unit     front and rear unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspensions; arrangement affecting more than one suspension unit     interactive suspension elements, e.g. arrangement affecting more than one suspension unit     interactive suspension unit     interactive suspension elements, e.g. arrangement affecting more than one suspensions     interactive suspension elements, e.g. arrangement affecting more than one suspension elements      interactive suspensions, arrangement affecting more than one suspension elements      interactive suspension elements      interactive suspension elements      interactive suspens
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/410 Cardan joints  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418 Bearings, e.g. ball or roller bearings  2204/419 Planetary or epicyclic gears  2204/419 rack and pinion  2204/419 worm gears  2204/42 Joints with cam surfaces  2204/421 Pivoted lever mechanisms for mounting suspension elements, e.g. Watt linkage  2204/422 for movement on predefined locus of, e.g. the	2204/61 Adjustable during maintenance Adjustable continuously, e.g. during driving Lacety Suspensions; arrangement affecting more than one suspension unit Lacety Suspensions; arrangement affecting more than one suspension unit Lacety Suspension Lacety Suspension Lacety Suspension Lacety Suspension Lacety Suspension Lacety Suspension elements, e.g. Lacety Suspension unit Lacety Suspension Lacety Suspension elements, e.g. Lacety Suspension elements, e.g. Lacety Suspension unit Lacety Suspension elements, e.g. Lacety Suspension elements, e.g. Lacety Suspension unit Lacety Suspension Lacety Suspe
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418 Bearings, e.g. ball or roller bearings  2204/419 Gears  2204/419 Planetary or epicyclic gears  2204/419 worm gears  2204/419 worm gears  2204/42 Joints with cam surfaces  2204/421 Pivoted lever mechanisms for mounting suspension elements, e.g. Watt linkage  2204/422 for movement on predefined locus of, e.g. the wheel center	2204/61 Adjustable during maintenance Adjustable continuously, e.g. during driving Lacetal Adjustable continuously arranged Lacetal Adjustable view and rear unit Lacetal Adjustable view assignment affecting more than one suspension unit Lacetal Adjustable view assignment affecting more than one suspension and example view and example view and example view and example view assignment affecting more than one suspension and example view and example v
directions  2204/41042 by using internal cam surfaces 2204/41043 formed by a U-shaped external bracket 2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts 2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush 2204/41062 hydromounts; interconnected mounts 2204/4108 Resilient element being enclosed and or prestressed in a solid container 2204/414 Cardan joints 2204/415 Ball or spherical joints 2204/418 Bearings, e.g. ball or roller bearings 2204/419 Gears 2204/419 Planetary or epicyclic gears 2204/419 worm gears 2204/419 worm gears 2204/42 Joints with cam surfaces 2204/421 Pivoted lever mechanisms for mounting suspension elements, e.g. Watt linkage 2204/422 Links for mounting suspension elements 2204/422 for movement on predefined locus of, e.g. the wheel center 2204/423 Rails, tubes, or the like, for guiding the movement	2204/61 Adjustable during maintenance 2204/62 Adjustable continuously, e.g. during driving 2204/80 Interactive suspensions; arrangement affecting more than one suspension unit 2204/81 . front and rear unit 2204/8102 . diagonally arranged 2204/82 . left and right unit on same axle 2204/83 . Type of interconnection 2204/8302 . Mechanical 2204/8302 . using cables, wires, belts or chains 2204/8304 . using a fluid 2204/8306 . Permanent; Continuous  2206/00 Indexing codes related to the manufacturing of suspensions: constructional features, the materials used, procedures or tools 2206/01 . Constructional features of suspension elements, e.g. arms, dampers, springs 2206/0112 . Bogies for heavy vehicles 2206/0114 . Independent suspensions on subframes 2206/0116 . Integrated distribution control units with valves, accumulators, PCB's or the like 2206/012 . having a U profile with plate closing the profile in the total or partial length of the element 2206/013 . with embedded inserts for material reinforcement
directions  2204/41042 by using internal cam surfaces  2204/41043 formed by a U-shaped external bracket  2204/41044 in a shell for being loaded mainly in axial direction, e.g. piston rod mounts, longitudinal push-pull rod mounts  2204/41046 having the axis of an inner sleeve or pin inclined to the axis of the bush  2204/4106 Elastokinematic mounts  2204/4108 Resilient element being enclosed and or prestressed in a solid container  2204/414 Cardan joints  2204/416 Ball or spherical joints  2204/418 Bearings, e.g. ball or roller bearings  2204/419 Gears  2204/419 Planetary or epicyclic gears  2204/419 worm gears  2204/419 worm gears  2204/42 Joints with cam surfaces  2204/421 Pivoted lever mechanisms for mounting suspension elements, e.g. Watt linkage  2204/422 for movement on predefined locus of, e.g. the wheel center	2204/61 Adjustable during maintenance Adjustable continuously, e.g. during driving Lacetal Adjustable continuously arranged Lacetal Adjustable view and rear unit Lacetal Adjustable view assignment affecting more than one suspension unit Lacetal Adjustable view assignment affecting more than one suspension and example view and example view and example view and example view assignment affecting more than one suspension and example view and example v

2206/017 famming on ave for the hyphing	2206/71 Light weight metanisk
2206/017 . forming an eye for the bushing	2206/71 Light weight materials
2206/10 Constructional features of arms	2206/7101 Fiber-reinforced plastics [FRP]
2206/11 the arm being a radius or track or torque or	2206/7102 Aluminium alloys
steering rod or stabiliser end link	2206/7103 Magnesium alloys
2206/111 of adjustable length	2206/7104 Thermoplastics
2206/1112 Manually, for alignment purposes	2206/71042 Polyester elastomer
2206/1114 Self-adjustable during driving	2206/71043 Polyamid elastomer
2206/1116 Actively adjustable during driving	2206/71044 Soft nylon
2206/12 with two attachment points on the sprung part of the vehicle	2206/7105 Porous materials, ceramics, e.g. as filling material
2206/121 the arm having an H or X-shape	2206/72 Steel
2206/122 the arm having L-shape	2206/722 Plates
2206/123 the arm having T-shape	2206/724 Wires, bars or the like
2206/124 the arm having triangular or Y-shape, e.g.	2206/73 Rubber; Elastomers
wishbone	2206/80 Manufacturing procedures
2206/13 with more than two attachment points on the	2206/81 Shaping
sprung part of the vehicle	2206/8101 by casting
2206/14 the arm forming a U-shaped recess for fitting a	2206/81012 by injection moulding
bush	2206/8102 by stamping
2206/141 The recess being integrally or seamlessly	2206/81022 by forging
formed	2206/8103 by folding or bending
2206/15 the arm being resilient	
2206/16 the arm having a U profile and/or made of a	2206/81035 involving heating to relieve internal stresses
plate	
2206/161 with middle section narrower than end	2206/8104 by drawing
section	2206/8105 by extrusion
2206/162 with a plate closing the profile in the total or	2206/8106 by thermal treatment, e.g. curing hardening,
partial length of the arm	vulcanisation
2206/20 Constructional features of semi-rigid axles, e.g.	2206/81062 to relieve internal stresses, e.g. during
twist beam type axles	folding or bending
2206/201 with detachable cross beam and/or torsion	2206/8107 by hydroforming
stabiliser bar/tube	2206/8108 by twisting
2206/202 with a radially deformed tube as a cross	2206/8109 by rolling
member	2206/811 by cutting
2206/203 with outwardly bent trailing arms to increase	2206/8111 by machining
the width of the support or wheelbase	2206/8112 by thermal spraying of molten material
2206/30 Constructional features of rigid axles	2206/82 Joining
2206/31 Straight axle	2206/8201 by welding
2206/312 Cranked axle	2206/82012 Pressure welding
2206/32 Hollow cross section	2206/82013 Friction or heat welding
2206/40 Constructional features of dampers and/or springs	2206/82014 Magnetic pulse welding
2206/41 Dampers	2206/8205 by conical or compressed rubber clamping
2206/42 Springs	inserts as joining means
2206/422 Accumulators for hydropneumatic springs	2206/8206 by riveting
2206/4222 with a flexible separating wall; Membrane	2206/8207 by screwing
construction	2206/8208 by hemming or seaming, e.g. by folding of
2206/424 Plunger or top retainer construction for	the rim
bellows or rolling lobe type air springs	2206/8209 by deformation
2206/426 Coil springs having a particular shape, e.g.	2206/82092 by press-fitting
curved axis, pig-tail end coils	2206/821 by gluing
2206/427 Stabiliser bars or tubes	2206/83 Punching
2206/428 Leaf springs	2206/84 Hardening
2206/50 . Constructional features of wheel supports	2206/8401 Annealing
or knuckles, e.g. steering knuckles, spindle	2206/8402 Quenching
attachments	2206/8403 Shot-peening
2206/60 • Subframe construction	2206/85 Filament winding
2206/601 Hanger bracket	2206/90 • Maintenance
2206/602 Single transverse beam	2206/91 Assembly procedures
2206/604 with two parallel beams connected by cross	2206/911 using a modification kit
members	2206/92 Tools or equipment used for assembling
2206/605 Flexible constructions	2206/921 Coil spring compressor
2206/606 Complex constructions	2206/93 Tools used for adjustments
2206/70 . Materials used in suspensions	2206/931 McPherson strut positioning tool
	• • • • West nerson struct positioning tool

2206/94	Tools used for supporting parts	2400/05146	Wheel caster
2206/99	Suspension element selection procedure	2400/0516	Angular position of a suspension element
	depending on loading or performance	2400/05162	the element being a suspension arm
	requirements, e.g. selection of damper, spring	2400/052	Angular rate
	or bush	2400/0521	Roll rate
2300/00	Indexing codes relating to the type of vehicle	2400/0522	Pitch rate
2300/02	Trucks; Load vehicles	2400/0523	Yaw rate
2300/022	Fork lift trucks, Clark	2400/053	Angular acceleration
2300/024	Light trucks	2400/0531	Roll acceleration
2300/026	Heavy duty trucks	2400/0532	Pitch acceleration
2300/0262	Multi-axle trucks	2400/0533	Yaw acceleration
2300/03	Silo or fluid transporting vehicles	2400/10	Acceleration; Deceleration
2300/04	. Trailers	2400/102	vertical
2300/042	Semi-trailers	2400/104	lateral or transversal with regard to vehicle
2300/044	Truck-trailer connections		using at least two sensors
2300/06	. Cranes	2400/106	longitudinal with regard to vehicle, e.g. braking
2300/07	Off-road vehicles	2400/1062	using at least two sensors
2300/08	Agricultural vehicles	2400/20	. Speed
2300/082	Tractors	2400/202	. Piston speed; Relative velocity between vehicle
2300/083	Boom carrying vehicles, e.g. for crop spraying	2.100/201	body and wheel
2300/084	Ridable lawn mowers	2400/204	Vehicle speed
2300/09	. Construction vehicles, e.g. graders, excavators	2400/2042	Lateral speed
2300/10	Railway vehicles	2400/206	Body oscillation speed; Body vibration frequency
2300/102	having track following mechanismn for lateral	2400/208	. of wheel rotation
	stability	2400/25	Stroke; Height; Displacement
2300/12	Cycles; Motorcycles	2400/252	• • vertical
2300/122	Trikes	2400/256	horizontal
2300/124	Quads	2400/257	transversal with regard to vehicle
2300/13	Small sized city motor vehicles	2400/258	longitudinal with regard to vehicle
2300/14	. Buses	2400/30	Propulsion unit conditions
2300/16	. Aeroplanes	2400/302	Selected gear ratio; Transmission function
2300/18	. Helicopters	2400/304	neutral position
2300/20	. Toys	2400/306	overdrive Clutch condition
2300/22	. Perambulators	2400/31 2400/32	
2300/24	. Wheelchairs	2400/32	Torque on propulsion shaft     Throttle position
2300/26	• Carts	2400/33	Accelerator pedal position
2300/27	• Racing vehicles, e.g. F1	2400/34	Position of fuel or air injector
2300/28	Amphibious vehicles	2400/35	Functioning of turbocharger
2300/30	• Load ramps	2400/30	Brake pad or disc friction
2300/32	Track vehicles	2400/37	Speed of engine rotation
2300/322	Snowmobiles	2400/38	Ignition switch
2300/34	• Ambulances	2400/39	Brake pedal position
2300/36	Independent Multi-axle long vehicles	2400/40	Steering conditions
2300/37	Vehicles having steerable wheels mounted on a	2400/41	Steering angle
2200/20	vertically moving column	2400/412	of steering wheel or column
2300/38 2300/40	Low or lowerable bed vehicles     Variable track or wheelbase vehicles	2400/4122	Neutral position detection
2300/40	variable track of wheelbase vehicles     Extra load carrying wheels, e.g. tag axles	2400/4122	Steering torque
2300/402		2400/44	Steering speed
2300/43	Rolling frame vehicles     Electric vehicles; Hybrid vehicles	2400/46	Steering speed     Steering frequency
	•	2400/47	Rear wheel steering
2300/60	Vehicles using regenerative power	2400/50	Pressure
2400/00	Indexing codes relating to detected, measured or	2400/51	in suspension unit
	calculated conditions or factors	2400/512	in spring
2400/05	• Attitude	2400/5122	Fluid spring
2400/051	Angle		Pneumatic
2400/0511	Roll angle	2400/518	in damper
2400/0512	Pitch angle	2400/5182	Fluid damper
2400/0513	· · · Yaw angle	2400/52	in tyre
2400/0514	Wheel angle detection	2400/60	. Load
	Wheel camber	2400/61	Load distribution
21400/05144	Wheel toe		

2400/62	Seat occupation; Passenger presence	2401/22	Radioactivity sensitive materials
2400/63	. Location of the center of gravity	2401/23	Memory materials
2400/64	• • Wheel forces, e.g. on hub, spindle or bearing	2401/24	Heat sensitive materials; temperature gauge
2400/70	Temperature of vehicle part or in the vehicle	2401/25	Capacitance type, e.g. as level indicator
2400/71	• • of suspension unit	2401/26	Resistance type, e.g. as level indicator
2400/712	of spring	2401/27	Gravitational, e.g. pendulum or axial movement
2400/7122	Fluid spring		type
2400/716	of damper	2401/28	• Gyroscopes
2400/7162	Fluid damper	2401/90	Single sensor for two or more measurements
2400/72	in vehicle interior	2401/902	the sensor being an xy axis sensor
2400/73	of other part than suspension unit	2401/904	the sensor being an xyz axis sensor
2400/732	of propulsion unit	2500/00	
2400/80	Exterior conditions	2500/00	Indexing codes relating to the regulated action or
2400/82	Ground surface	2500/02	device
2400/821	Uneven, rough road sensing affecting vehicle	2500/02	Supply or exhaust flow rates; Pump operation
2.00,021	body vibration	2500/022	Minimisation of pressure cavitation effects upon
2400/822	Road friction coefficient determination	2500/04	demand
	affecting wheel traction	2500/04	using inertia type valves
2400/8222	Hydroplaning	2500/10	Damping action or damper
2400/823	Obstacle sensing	2500/102	stepwise
2400/824	Travel path sensing; Track monitoring	2500/104	continuous
2400/84	. Atmospheric conditions	2500/106	duty rate
2400/841	Wind	2500/11	Damping valves
2400/842	Temperature	2500/112	Fluid actuation
2400/8422	of air	2500/114	pressure regulating valves
2400/8424	of ground or road	2500/116	for damping pressure oscillations of the fluid in
2400/8424	Humidity; Rainfall		hydraulic lines
2400/845	Darkness	2500/20	Spring action or springs
2400/847	Sunshine; Light	2500/201	Air spring system type
2400/847	Other conditions or factors	2500/2012	Open systems
2400/90		2500/2014	Closed systems
2400/91	Frequency     Travelling or driving time	2500/202	Height or leveling valve for air-springs
2400/92	Travelling distance	2500/2021	Arrangement of valves
2400/922	Deformation of a vehicle part	2500/2022	with valve seat actuation for selectively
2400/94	of vehicle body		adjusting neutral height
2400/942	Position of vehicle body elements	2500/203	. Distributor valve units comprising several
2400/95	of door or bonnet	2500/201	elements, e.g. valves, pump or accumulators
2400/952	Wheelbase	2500/204	Pressure regulating valves for air-springs
2400/934	Presence, absence or inactivity of driver	2500/2041	for variable volume air springs, e.g. using
2400/97	Relation between towing and towed vehicle, e.g.	2500/2042	accumulators as expansion chambers
2400/97	tractor-trailer combination	2500/2042	Air filling valves
2400/972	Angle of articulation	2500/2043	Wheatstone bridge type valve arrangements
2400/972	Stabiliser movement	2500/2044	Air exhausting valves
2400/98	Stabilisei movement	2500/2046	• • • Pressure equalising valves between two units
2401/00	Indexing codes relating to the type of sensors based	2500/205	. Air-compressor operation
	on the principle of their operation	2500/206	Variable pressure accumulators for
2401/10	Piezoelectric elements	2500/2072	hydropneumatic suspensions
2401/11	Electrostrictive transducers	2500/2062	by varying the number of accumulator
2401/12	Strain gauge	2500/2064	by varying the number of accumulators
2401/122	Wheatstone bridge circuit	2500/22	connected in parallel to the hydraulic cylinder
2401/14	Photo or light sensitive means, e.g. Infrared		Spring constant
2401/142	Visual Display Camera, e.g. LCD	2500/30	Height or ground clearance      Height or ground clearance
2401/144	Fiber optic sensor	2500/302	using distributor valves
2401/15	Doppler effect	2500/32	of only one vehicle part or side
2401/16	GPS track data	2500/322	only root part
2401/17	Magnetic/Electromagnetic	2500/324	only rear part
2401/172	Hall effect	2500/326	only left or right side
2401/174	Radar	2500/40	• Steering
2401/176	Radio or audio sensitive means, e.g. Ultrasonic	2500/42	Sensibility
2401/19	Speech recognising means	2600/00	Indexing codes relating to particular elements,
2401/20	. Switches, e.g. mercury or ball type switches		systems or processes used on suspension systems or
2401/21	. Laser		suspension control systems

2600/02	. Retarders, delaying means, dead zones, threshold	2600/602	high pass
	values, cut-off frequency, timer interruption	2600/604	low pass
2600/04	Means for informing, instructing or displaying	2600/66	Humidifying or drying means
2600/042	Monitoring means	2600/68	• Filtering means, e.g. fluid filters
2600/0422	involving data transmission, e.g. via satellite	2600/70	Computer memory; Data storage, e.g. maps for
	or GPS; for data monitoring, telemetry or		adaptive control
	platooning purposes	2600/702	Parallel processing
2600/044	Alarm means	2600/704	Electronic tags containing data, e.g. identification
2600/07	Inhibiting means		number of a component; Gain values for the
2600/08	Failure or malfunction detecting means		control of the unit, etc.
2600/082	Sensor drift	2600/71	. Distributed control; Master - slave controllers;
2600/084	Supervisory systems		Remote control units
2600/086	Redundant systems	2600/72	. Cooling or warming means
2600/09	Feedback signal	2600/73	Electrical control
2600/11	Feedforward signal	2600/74	Analog systems
2600/12	Sampling or average detecting; Addition or	2600/76	. Digital systems
	substraction	2600/77	. A/D, D/A signal converters
2600/122	Summation signal	2600/82	duty rate function
2600/124	Error signal	2600/85	Speed of regulation
2600/14	Differentiating means, i.e. differential control	2600/90	other signal treatment means
2600/16	Integrating means, i.e. integral control	2000/00	Indexing and as relating to the type of movement or
2600/17	Proportional control, i.e. gain control	2800/00	Indexing codes relating to the type of movement or to the condition of the vehicle and to the end result
2600/172	Weighting coefficients or factors		to be achieved by the control action
2600/18	Automatic control means	2800/01	Attitude or posture control
2600/181	Signal modulation; pulse-width, frequency-phase	2800/012	Rolling condition
2600/182	Active control means	2800/012	Roll rigidity ratio; Warping
2600/184	Semi-Active control means	2800/0124	Roll-over conditions
2600/186	Analogue Controller Details and Signal	2800/0124	Pitch; Nose dive
	Treatment	2800/014	
2600/187	Digital Controller Details and Signal Treatment	2800/010	. Yawing condition
2600/1871	Optimal control; Kalman Filters	2800/019	Inclination due to load distribution or road gradient
2600/1872	Observer; Luaponov function	2800/0192	longitudinal with regard to vehicle
2600/1873	Model Following		
2600/1874	Modal analysis	2800/0194	transversal with regard to vehicle
2600/1874 2600/1875	<ul><li> Modal analysis</li><li> Other parameter or state estimation methods</li></ul>	2800/16	. Running
	•	2800/16 2800/162	Running     Reducing road induced vibrations
	Other parameter or state estimation methods	2800/16 2800/162 2800/164	<ul><li>Running</li><li>Reducing road induced vibrations</li><li>Heaving; Squatting</li></ul>
	• • • Other parameter or state estimation methods not involving the mathematical modelling of	2800/16 2800/162 2800/164 2800/166	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> </ul>
2600/1875	• • • Other parameter or state estimation methods not involving the mathematical modelling of the vehicle	2800/16 2800/162 2800/164 2800/166 2800/18	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> </ul>
2600/1875 2600/1876	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence	2800/16 2800/162 2800/164 2800/166 2800/18 2800/182	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> </ul>
2600/1875 2600/1876 2600/1877	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control	2800/16 2800/162 2800/164 2800/166 2800/18 2800/182 2800/20	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control     Neural Networks	2800/16 2800/162 2800/164 2800/166 2800/18 2800/182 2800/20 2800/202	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1879	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control     Neural Networks     Fuzzy Logic Control	2800/16 2800/162 2800/164 2800/166 2800/18 2800/182 2800/20 2800/202 2800/203	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1879 2600/188	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control     Neural Networks     Fuzzy Logic Control     Spectral analysis; Transformations	2800/16 2800/162 2800/164 2800/166 2800/18 2800/182 2800/20 2800/202 2800/203 2800/204	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1879 2600/188 2600/1881	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control     Neural Networks     Fuzzy Logic Control     Spectral analysis; Transformations     Integral	2800/16 2800/162 2800/164 2800/166 2800/18 2800/182 2800/20 2800/202 2800/203	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1879 2600/188 2600/1881 2600/1882	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/20 2800/202 2800/203 2800/204 2800/2042	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1882 2600/1883 2600/1884	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/2042 2800/2045	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1882 2600/1883 2600/1884 2600/1885	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/2042 2800/205 2800/21	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1882 2600/1883 2600/1884 2600/1885 2600/189	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/212	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1883 2600/1884 2600/1885 2600/189 2600/20	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control     Neural Networks     Fuzzy Logic Control     Spectral analysis; Transformations     Integral     Fourier     Z-transform     Laplace     Euler equations     Statistical analysis     Manual control or setting means	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/2042 2800/205 2800/21	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1882 2600/1883 2600/1884 2600/1885 2600/189	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/212 2800/213	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1883 2600/1884 2600/1885 2600/189 2600/20	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/213 2800/214	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1882 2600/1883 2600/1884 2600/1885 2600/1889 2600/20 2600/202	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/212 2800/213	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1883 2600/1884 2600/1885 2600/1885 2600/200 2600/202 2600/204 2600/206	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/212 2800/213 2800/214 2800/215	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by applying a braking action on each wheel individually</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1883 2600/1884 2600/1885 2600/1889 2600/20 2600/204 2600/206 2600/21	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/204 2800/21 2800/21 2800/213 2800/214 2800/215 2800/215	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1881 2600/1881 2600/1882 2600/1884 2600/1885 2600/1885 2600/189 2600/20 2600/202 2600/204 2600/206 2600/21 2600/22	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> <li>Magnetic elements</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/2042 2800/21 2800/212 2800/213 2800/214 2800/215 2800/22 2800/22 2800/22	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1884 2600/1885 2600/1885 2600/20 2600/20 2600/204 2600/204 2600/204 2600/21 2600/22 2600/24	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> <li>Magnetic elements</li> <li>permanent magnets</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/2042 2800/205 2800/21 2800/212 2800/213 2800/214 2800/215 2800/22 2800/22 2800/224	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> <li>automatically, based on dangerous living style</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1884 2600/1885 2600/1885 2600/20 2600/20 2600/204 2600/204 2600/204 2600/204 2600/21 2600/22 2600/24 2600/26	Other parameter or state estimation methods not involving the mathematical modelling of the vehicle     Artificial intelligence     Adaptive Control     Neural Networks     Fuzzy Logic Control     Spectral analysis; Transformations     Integral     Fourier     Z-transform     Laplace     Euler equations     Statistical analysis     Manual control or setting means     using a remote, e.g. cordless, transmitter or receiver unit     Joystick actuated suspension     Control-by-wire     Self-controlled or adjusted     Magnetic elements     permanent magnets     Electromagnets; Solenoids	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/2042 2800/21 2800/212 2800/213 2800/214 2800/215 2800/22 2800/22 2800/22	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> <li>automatically, based on dangerous living style</li> <li>automatically, based on stopping at a preset or</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1881 2600/1881 2600/1883 2600/1884 2600/1885 2600/1889 2600/20 2600/204 2600/204 2600/206 2600/21 2600/24 2600/26 2600/28	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>Z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> <li>Magnetic elements</li> <li>permanent magnets</li> <li>Electromagnets; Solenoids</li> <li>Temporary fluctuations</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/212 2800/213 2800/214 2800/215 2800/22 2800/22 2800/224 2800/226	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> <li>automatically, based on dangerous living style</li> <li>automatically, based on stopping at a preset or target point position</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1883 2600/1884 2600/1885 2600/1889 2600/20 2600/204 2600/206 2600/21 2600/21 2600/24 2600/26 2600/28 2600/28 2600/41	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>Z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> <li>Magnetic elements</li> <li>permanent magnets</li> <li>Electromagnets; Solenoids</li> <li>Temporary fluctuations</li> <li>SISO system, i.e. single input - single output system</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/213 2800/214 2800/215 2800/22 2800/22 2800/226 2800/226	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> <li>automatically, based on dangerous living style</li> <li>automatically, based on stopping at a preset or target point position</li> <li>Steering, cornering</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1883 2600/1884 2600/1885 2600/1889 2600/20 2600/202 2600/204 2600/206 2600/21 2600/22 2600/24 2600/28 2600/28 2600/41 2600/43	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> <li>Magnetic elements</li> <li>permanent magnets</li> <li>Electromagnets; Solenoids</li> <li>Temporary fluctuations</li> <li>SISO system, i.e. single input - single output system</li> <li>MIMO system, i.e. multi input - multi output system</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/213 2800/214 2800/215 2800/215 2800/22 2800/22 2800/226 2800/24 2800/24	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> <li>automatically, based on dangerous living style</li> <li>automatically, based on stopping at a preset or target point position</li> <li>Steering, cornering</li> <li>Obstacle avoidance manoeuvre</li> </ul>
2600/1875 2600/1876 2600/1877 2600/1878 2600/1889 2600/1881 2600/1881 2600/1883 2600/1884 2600/1885 2600/1889 2600/20 2600/204 2600/206 2600/21 2600/21 2600/24 2600/26 2600/28 2600/28 2600/41	<ul> <li>Other parameter or state estimation methods not involving the mathematical modelling of the vehicle</li> <li>Artificial intelligence</li> <li>Adaptive Control</li> <li>Neural Networks</li> <li>Fuzzy Logic Control</li> <li>Spectral analysis; Transformations</li> <li>Integral</li> <li>Fourier</li> <li>Z-transform</li> <li>Laplace</li> <li>Euler equations</li> <li>Statistical analysis</li> <li>Manual control or setting means</li> <li>using a remote, e.g. cordless, transmitter or receiver unit</li> <li>Joystick actuated suspension</li> <li>Control-by-wire</li> <li>Self-controlled or adjusted</li> <li>Magnetic elements</li> <li>permanent magnets</li> <li>Electromagnets; Solenoids</li> <li>Temporary fluctuations</li> <li>SISO system, i.e. single input - single output system</li> </ul>	2800/16 2800/162 2800/164 2800/166 2800/18 2800/20 2800/202 2800/203 2800/204 2800/204 2800/205 2800/21 2800/213 2800/214 2800/215 2800/22 2800/22 2800/226 2800/226	<ul> <li>Running</li> <li>Reducing road induced vibrations</li> <li>Heaving; Squatting</li> <li>Platooning</li> <li>Starting, accelerating</li> <li>Traction</li> <li>Stationary vehicle</li> <li>kneeling, e.g. for letting passengers on/off</li> <li>lowering the floor for loading/unloading</li> <li>adjusting floor height to the loading ramp level</li> <li>using an anticreep mechanism to lock the height</li> <li>jacking-up for changing tyre or vehicle inspection</li> <li>Traction, slip, skid or slide control</li> <li>Transversal; Side-slip during cornering</li> <li>by applying forward/backward torque on each wheel individually</li> <li>by varying the load distribution</li> <li>by applying a braking action on each wheel individually</li> <li>Braking, stopping</li> <li>during collision</li> <li>automatically, based on dangerous living style</li> <li>automatically, based on stopping at a preset or target point position</li> <li>Steering, cornering</li> </ul>

#### **B60G**

2800/248	Neutral steering behaviour
2800/70	. Estimating or calculating vehicle parameters or state
	variables
2800/702	Improving accuracy of a sensor signal
2800/7022	Calibration of a sensor, e.g. automatically
2800/704	predicting unorthodox driving conditions for safe
	or optimal driving
2800/80	Detection or control after a system or component
	failure
2800/802	Diagnostics
2800/85	System Prioritisation
2800/87	System configuration based on vehicle type or
	model
2800/90	System Controller type
2800/91	Suspension Control
2800/912	Attitude Control; levelling control
2800/9122	ARS - Anti-Roll System Control
2800/9123	Active Body Control [ABC]
2800/9124	Roll-over protection systems, e.g. for
	warning or control
2800/914	Height Control System
2800/915	Suspension load distribution
2800/916	Body Vibration Control
2800/92	ABS - Brake Control
2800/922	EBV - Electronic brake force distribution
2800/925	Airbag deployment systems
2800/93	Skid or slide control [ASR]
2800/94	Electronic Stability Program (ESP, i.e. ABS
	+ASC+EMS)
2800/95	Automatic Traction or Slip Control [ATC]
2800/952	Electronic driving torque distribution
2800/954	Four-wheel drive
2800/96	ASC - Assisted or power Steering control
2800/962	Four-wheel steering
2800/963	Steer-by-wire
2800/964	Auto-navigation
2800/965	Automatic or driver-independent manoeuvre,
	e.g. for obstacle avoidance or roll-over
	prevention
2800/97	Engine Management System [EMS]
2800/972	Electronic Differential Lock [EDS]
2800/98	Intelligent Transportation System or Bus [IDB]
2800/982	Active Cruise Control, e.g. DISTRONIC type
2800/984	Tyre Pressure Monitoring Systems