CPC  COOPERATIVE PATENT CLASSIFICATION

B  PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B60  VEHICLES IN GENERAL

(NOTE omitted)

B60G  VEHICLE SUSPENSION ARRANGEMENTS (air-cushion vehicles B60V: {cycle suspensions B62K 25/00})

NOTES

1. Attention is drawn to the explanatory note following the class title B60.
2. Indexing codes B60G 2200/00 - B60G 2800/00 are dedicated to particular aspects of suspension arrangements:
   - B60G 2200/00 refers to the type of suspension arrangement;
   - B60G 2202/00 refers to the suspension elements used (springs, dampers and actuators);
   - B60G 2204/00 refers to mounting features of suspension elements;
   - B60G 2206/00 refers to constructional and manufacturing details of suspension elements;
   - B60G 2300/00 refers to the type of vehicle;
   - B60G 2400/00 - B60G 2800/00 refer to the electronic control of suspension arrangements, whereby:
     - B60G 2400/00 refers to input parameters of the control;
     - B60G 2401/00 refers to types of sensors used;
     - B60G 2500/00 refers to the controlled action or device;
     - B60G 2600/00 refers to particular details of the control system;
     - B60G 2800/00 refers to the result to be achieved by the control action.
3. Groups B60G 2200/00 - B60G 2800/00 are to be used in multi-aspect classification, so that subject matter characterised by aspects covered by more than one of these groups, which is considered to represent information of interest for search, should be classified in a combination of at least one relevant "invention information" symbol in association with indexing codes from each of these groups.

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 B60G 17/0165
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
   1/02 . with continuous axle
   1/04 . with divided axle

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)
   3/01 . the wheel being mounted for sliding movement, e.g. in or on a vertical guide (camber maintaining means B60G 3/26)
   3/02 . with a single pivoted arm
   3/04 . . the arm being essentially transverse to the longitudinal axis of the vehicle
   3/06 . . the arm being rigid
   3/08 . . the arm forming the axle housing
   3/10 . . the arm itself being resilient, e.g. leaf spring {B60G 7/003 takes precedence}

3/12 . . the arm being essentially parallel to the longitudinal axis of the vehicle
3/14 . . the arm being rigid
3/145 . . . . . {the arm forming the axle housing}
3/16 . . . the arm itself being resilient, e.g. leaf spring {B60G 7/003 takes precedence}
3/18 . . with two or more pivoted arms, e.g. parallelogram
3/185 . . . [the arms being essentially parallel to the longitudinal axis of the vehicle]
3/20 . . all arms being rigid
3/202 . . . [having one longitudinal arm and two parallel transversal arms, e.g. dual-link type strut suspension]
3/205 . . . . [with the pivotal point of the longitudinal arm being on the vertical plane defined by the wheel rotation axis and the wheel ground contact point]
3/207 . . . {the arms being essentially parallel to the longitudinal axis of the vehicle}
3/22 . . a rigid arm forming the axle housing
3/225 . . . {the arm being of the trailing wishbone type}
3/24 . . . a rigid arm being formed by the live axle

\((B60G\ 3/22,\ B60G\ 3/26\ take\ precedence;\ driving\ arrangements\ B60K\ 17/22,\ B60K\ 17/30,\ B60K\ 17/32)\)

3/26 . . . Means for maintaining substantially-constant wheel camber during suspension movement

\{\text{Means for controlling the variation of the wheel position during suspension movement} \ (B60G\ 3/202,\ B60G\ 3/22,\ B60G\ 7/003,\ B60G\ 7/006\ take\ precedence;\ means\ for\ adjusting\ camber,\ castor,\ or\ toe-in\ B62D\ 17/000)\}

3/265 . . . [with a strut cylinder contributing to the suspension geometry by being linked to the wheel support via an articulation]

3/28 . . at least one of the arms itself being resilient, e.g. leaf spring \((B60G\ 7/003\ takes\ precedence)\)

3/285 . . . [the arm being essentially parallel to the longitudinal axis of the vehicle]

5/00 Resilient suspensions for a set of tandem wheels or axles having interrelated movements

5/005 . . . [the wheels being fixed on a non-pivotal structure, e.g. a sliding mount]

5/01 . . . the set being characterised by having more than two successive axles

5/02 . . . mounted on a single pivoted arm \{ e.g. the arm being rigid \}

5/025 . . . [the arm being transverse to the longitudinal axis of the vehicle]

5/03 . . . the arm itself being resilient, e.g. a leafspring \((B60G\ 5/053\ takes\ precedence)\)

5/04 . . . with two or more pivoted arms, the movements of which are resiliently interrelated \{ e.g. the arms being rigid \}

5/043 . . . [the arms being transverse to the longitudinal axis of the vehicle]

5/047 . . . at least one arm being resilient, e.g. a leafspring \((B60G\ 5/053\ takes\ precedence)\)

5/053 . . . a leafspring being used as equilibration unit between two axle-supporting units

5/06 . . . the arms turning on a common pivot \{ e.g. being rigid \}

5/065 . . . [at least one arm being resilient]

7/00 Pivoted suspension arms; Accessories thereof

\{(\text{means for maintaining substantially-constant wheel camber during suspension movement} B60G\ 3/26;\ articulations\ for\ wheels\ B60G\ 5/00;\ leaf\ spring\ attaching\ means\ B60G\ 11/10,\ B60G\ 11/12;\ trailing\ arm\ twist\ beam\ axle\ attaching\ means\ B60G\ 21/052;\ articulations\ in\ general\ F16C)\}

7/001 . . . [Suspension arms, e.g. constructional features \((B60G\ 7/006\ takes\ precedence)\)]

7/003 . . . [of adjustable length]

7/005 . . . [Ball joints \((B60G\ 7/006\ takes\ precedence;\ for\ steering\ linkage\ B62D\ 7/16;\ ball\ joints\ per\ se\ F16C\ 11/06)\]

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 or electrical motor \((B62D\ 7/146\ takes\ precedence)\)]

7/008 . . . [Attaching arms to unsprung part of vehicle \((B60G\ 7/005,\ B60G\ 7/006\ takes\ precedence)\)]

7/02 . . . Attaching arms to sprung part of vehicle \((B60G\ 7/006\ takes\ precedence)\)]

7/04 . . . Buffer means for limiting movement of arms \{(\text{stops limiting fluid passage in fluid dampers F16F\ 9/49;\ stroke-limiting stops for fluid dampers F16F\ 9/58})\]

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\ 5/005;\ with leaf springs B60G\ 11/02-B60G\ 11/08)\}

9/003 . . . [the axle being rigidly connected to a trailing guiding device]

9/006 . . . [the axle being connected to two trailing arms with only one of them being rigidly connected to the axle]

9/02 . . . the axle or housing being pivotally mounted on the vehicle \{ e.g. the pivotal axis being parallel to the longitudinal axis of the vehicle \((B60G\ 9/003\ takes\ precedence)\)

9/022 . . . [the axle having an imaginary pivotal point]

9/025 . . . [using linkages for the suspension of the axle allowing its lateral swinging displacement]

9/027 . . . [the axle having either a triangular, a “T” or “U” shape and being directly articulated with the chassis only by its middle apex, e.g. De Dion suspension]

9/04 . . . the axle or housing not being pivotally mounted on the vehicle \((B60G\ 9/003\ takes\ precedence)\)

11/00 Resilient suspensions characterised by arrangement, location or kind of springs (single wheel suspension by pivoted arm resilient in itself B60G 3/30; adjusting spring characteristic B60G 17/00; springs per se F16F)

NOTE

The term “torsion bar” includes torsion tube or the like. The term “rubber” includes synthetic substitutes of a similar nature.

11/003 . . . [Lubrication devices for springs and dampers

\{(\text{vehicle lubrication devices in general B60R\ 17/00;\ for\ leaf\ springs\ in\ general\ F16F\ 1/24})\}

11/006 . . . [Centrally located spring units, e.g. all wheels being connected to a common spring unit \((B60G\ 5/00,\ B60G\ 17/003\ takes\ precedence)\)]

11/02 . . . having leaf springs only \((B60G\ 11/006\ takes\ precedence)\)

11/025 . . . [repairing devices for leaf springs]

11/04 . . . [arranging substantially parallel to the longitudinal axis of the vehicle]

11/06 . . . [arranged obliquely to the longitudinal axis of the vehicle]

11/08 . . . [arranged substantially transverse to the longitudinal axis of the vehicle]

11/10 . . . [characterised by means specially adapted for attaching the spring to axle or sprung part of the vehicle]

11/107 . . . Sliding or rolling mountings

11/113 . . . [Mountings on the axle \((B60G\ 11/107\ takes\ precedence)\]

11/12 . . . Links, pins, or bushes

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 vehicle

11/18 . . . having torsion-bar springs only ((B60G 11/006 takes precedence; having rubber springs of the torsional-energy-absorption type B60G 11/23))

NOTE
B60G 11/184 takes precedence over B60G 11/181 - B60G 11/183

11/181 . . . (arranged in a plane parallel to the longitudinal axis of the vehicle)

11/182 . . . (arranged in a plane oblique to the longitudinal axis of the vehicle)

11/183 . . . (arranged in a plane transverse to the longitudinal axis of the vehicle)

11/184 . . . (the torsion-bar consisting of a bundle of torsion elements)

11/185 . . . (the elements being rods)

11/186 . . . . . . (of hexagonal cross-section)

11/187 . . . . . . (the elements being leaf-springs loaded by twisting)

11/188 . . . . . . (the elements being cables)

11/189 . . . . . . (the torsion spring consisting of a tube with a slit)

11/20 . . . characterised by means specially adapted for attaching the spring to axle or sprung part of the vehicle

11/22 . . . having rubber springs only ((B60G 11/006 takes precedence))

11/225 . . . (Neidhart type rubber springs)

11/23 . . . . . . of the torsional-energy-absorption type

11/24 . . . characterised by means specially adapted for attaching the spring to axle or sprung part of the vehicle

11/26 . . . having fluid springs only, e.g. hydropneumatic springs ((B60G 11/006, B60G 15/12 take precedence))

11/265 . . . (hydraulic springs)

11/27 . . . wherein the fluid is a gas

11/28 . . . characterised by means specially adapted for attaching the spring to axle or sprung part of the vehicle

11/30 . . . having pressure fluid accumulator therefor, e.g. accumulator arranged in vehicle frame ((dampers accumulating utilisable energy B60G 13/14))

11/32 . . . having springs of different kinds ((B60G 11/006 takes precedence))

11/34 . . . including leaf springs

11/36 . . . and also helical, spiral or coil springs

11/38 . . . and also rubber springs

11/40 . . . . . . the rubber springs being attached to the axle

11/42 . . . . . . the rubber springs being attached to sprung part of the vehicle

11/44 . . . . . . and also torsion-bar springs

11/46 . . . . . . and also fluid springs

11/465 . . . . . . . (with a flexible wall)

11/48 . . . . . . not including leaf springs

11/50 . . . . . . having helical, spiral or coil springs, and also torsion-bar springs

11/52 . . . . . . having helical, spiral or coil springs, and also rubber springs

11/54 . . . . . . with rubber springs arranged within helical, spiral or coil springs

11/56 . . . . . . having helical, spiral or coil springs, and also fluid springs

11/58 . . . . . . arranged coaxially

11/60 . . . . . . having both rubber springs and torsion-bar springs

11/62 . . . . . . having both rubber springs and fluid springs

11/64 . . . . . . having both torsion-bar springs and fluid springs

13/00 Resilient suspensions characterised by arrangement, location or type of vibration dampers (adjusting damping effect B60G 17/06; vibration dampers per se F16F)

13/001 . . . (Arrangements for attachment of dampers (mounting arrangements of combined spring and damper units B60G 15/00; mountings of fluid dampers in general F16F 9/54))

13/003 . . . . . . (characterised by the mounting on the vehicle body or chassis of the damper unit)

13/005 . . . . . . (characterised by the mounting on the axle or suspension arm of the damper unit)

13/006 . . . . . . (on the stub axle)

13/008 . . . . . . (involving use of an auxiliary cylinder (B60G 13/006 takes precedence))

13/02 . . . having dampers dissipating energy, e.g. frictionally

13/04 . . . mechanically, e.g. having frictionally-engaging springs as damping elements

13/06 . . . . . . of fluid type

13/08 . . . . . . hydraulic

13/10 . . . . . . pneumatic

13/12 . . . . . . quasi-fluid, i.e. having powdered medium

13/14 . . . . . . having dampers accumulating utilisable energy, e.g. compressing air ((fluid springs with an accumulator B60G 11/30))

13/16 . . . . . . having dynamic absorbers as main damping means, i.e. spring-mass system vibrating out of phase

13/18 . . . . . . combined with energy-absorbing means

15/00 Resilient suspensions characterised by arrangement, location or type of combined spring and vibration damper, e.g. telescopic type (combined spring and vibration-dampers per se F16F)

15/02 . . . . . . having mechanical spring

15/04 . . . . . . and mechanical damper [or dynamic damper]

15/06 . . . . . . and fluid damper

15/061 . . . . . . {with a coil spring being mounted inside the damper}

15/062 . . . . . . {the spring being arranged around the damper (B60G 15/061, B60G 15/067, B60G 15/07 take precedence)}

15/063 . . . . . . {characterised by the mounting of the spring on the damper (B60G 15/065, B60G 15/066 take precedence)}

15/065 . . . . . . {characterised by the use of a combination of springs}

15/066 . . . . . . {the spring being different from a coil spring (B60G 15/062 takes precedence)}

15/067 . . . . . . {characterised by the mounting on the vehicle body or chassis of the spring and damper unit}

15/068 . . . . . . {specially adapted for MacPherson strut-type suspension}
Resilient suspensions having means for adjusting the spring or vibration-damper characteristics, for regulating the distance between a supporting surface and a sprung part of vehicle or for locking suspension during use to meet varying vehicular or surface conditions, e.g. due to speed or load (levelling or stabilising systems for tippers B60P 1/045)

Suspension locking arrangements (for retractable wheels B62D 61/12)

the regulating means comprising electric or electronic elements (B60G 17/002, B60G 17/005 take precedence)

characterised by the action on a particular type of suspension unit (B60G 17/01941 takes precedence)

{pneumatic unit}

{non-fluid unit, e.g. electric motor}

characterised by their responsiveness, when the vehicle is travelling, to specific motion, a specific condition, or driver input (B60G 17/017 takes precedence)

{mainly during straight-line motion (B60G 17/0164 takes precedence)

{mainly during a motion involving steering operation, e.g. cornering, overtaking (B60G 17/0164 takes precedence)

{the control involving steering geometry, e.g. four-wheel steering

{mainly during accelerating or braking

{to an external condition, e.g. rough road surface, side wind

characterised by their use when the vehicle is stationary, e.g. during loading, engine start-up or switch-off

characterised by the use of a specific signal treatment or control method

{involving parameter estimation, e.g. observer, Kalman filter

{for failure detection

characterised by the type of sensor or the arrangement thereof (B60G 17/01941 takes precedence)

{Acceleration or inclination sensors (characterised by the use of gyroscopes B60G 21/08)

{Mercury-switch type devices

{Pendulum-type devices

{Velocity, e.g. relative velocity-displacement sensors

{characterised by the use of piezo-electric elements, e.g. sensors or actuators

characterised by the regulation being combined with other vehicle control systems (conjoint control of vehicle sub-units including control of suspension systems B60W 10/22)

Spring characteristics, e.g. mechanical springs and mechanical adjusting means (B60G 17/005, B60G 17/015 take precedence)

{the mechanical spring being a coil spring (B60G 17/0272 takes precedence)

{the mechanical spring being a leaf spring (B60G 17/0275 takes precedence)

{the mechanical spring being a torsion spring (B60G 17/0277, B60G 21/0553 take precedence)

Mechanical springs regulated by fluid means (B60G 17/033 takes precedence)

{the mechanical spring being a coil spring

{the mechanical spring being a leaf spring

{the mechanical spring being a torsion spring (B60G 21/0553 takes precedence)

characterised by regulating means acting on more than one spring

fluid spring characteristics

details, e.g. antifreeze for suspension fluid, pumps, retarding means per se

{regulated by varying the resiliency of hydropneumatic suspensions (B60G 17/048 takes precedence)

{by varying the air pressure of the accumulator

{by varying the number of accumulators connected to the hydraulic cylinder (B60G 17/0424 takes precedence)

Self-pumping fluid springs (pumps for liquids F04)

{with the regulating means inside the fluid springs (B60G 17/044 takes precedence)

{the springs being pneumatic springs with a flexible wall, e.g. with levelling valves

Pneumatic spring characteristics (B60G 17/048 takes precedence; valves per se F16K)

{the spring having a flexible wall

{Regulating distributors or valves for pneumatic springs

{Height adjusting or levelling valves

{Distributor units, e.g. for retractable wheels (vehicles with retractable wheels per se B62D 61/12)

Pressure regulating or air filling valves

{Regulating distributors or valves for hydropneumatic systems (B60G 17/044 - B60G 17/048, B60G 17/0416) take precedence; Fluid interconnection systems to control vehicle inclination B60G 21/06, B60G 21/10; valves per se F16K)

{Height adjusting valves

Characteristics of dampers, e.g. mechanical dampers (B60G 17/015 takes precedence)

Characteristics of fluid dampers (adjusting fluid dampers in general F16F 9/44 - F16F 9/53)
Subject matter not provided for in other groups of this subclass

99/00

99/002  { Suspension details of the suspension of the vehicle body on the vehicle chassis}
99/004  { Other suspension arrangements with rubber springs}
99/006  { Other suspension arrangements with metallic springs}
99/008  { Other suspension arrangements with fluid springs}

2200/00

Indexing codes relating to suspension types

2200/10  . Independent suspensions
2200/13  . with longitudinal arms only
2200/132  . with a single trailing arm
2200/1322  . with a wishbone or triangular arm
2200/1324  . with a resilient trailing arm
2200/14  . with lateral arms
2200/141  . with one trailing arm and one lateral arm only
2200/142  . with a single lateral arm, e.g. MacPherson type
2200/1422  . the lateral arm being resilient
2200/1424  . the lateral arm having an L-shape
2200/143  . with lateral arms crossing each other, i.e. X formation as seen along the longitudinal axis
2200/144  . with two lateral arms forming a parallelogram
2200/1442  . including longitudinal rods
2200/154  . the lateral arm having an L-shape
2200/156  . wishbone-type arm formed by two links defining a virtual apex
2200/17  . with a strut contributing to the suspension geometry by being articulated onto the wheel support
2200/18  . Multilink suspensions, e.g. elastokinematic arrangements
2200/182  . with one longitudinal arm or rod and lateral rods
2200/184  . Assymetric arrangements
2200/20  . Semi-rigid axle suspensions
2200/21  . Trailing arms connected by a torsional beam, i.e. twist-beam axles
2200/22  . Trailing arms connected by a straight torsion bar
2200/23  . Trailing arms connected by a U-shaped torsion bar
2200/24  . Interconnected split axles
2200/30  . Rigid axle suspensions
2200/31  . with two trailing arms rigidly connected to the axle
2200/312  . with one of the two trailing arms being rigidly connected to the axle
2200/314  . with longitudinally arranged arms articulated on the axle
2200/315  . at least one of the arms having an A or V shape
2200/318  . two or more axles being mounted on a longitudinal rocking or walking beam
2200/32  . pivoted
2200/322  . with a single pivot point and a straight axle
2200/324  . with a single pivot point and a triangular "T" or "U"-shaped axle, e.g. De Dion arrangement
2200/326  . with two laterally spaced pivots, e.g. trailing frame
2200/34  . Stabilising mechanisms, e.g. for lateral stability
2200/341  . Panhard rod
2200/3415  . Scott-Russel linkage
2200/342  . Watt linkage
2200/343  . with an axle suspended by two pivoted rods in "V"-arrangement, the rods being coupled at its apex
2200/344  . with an axle suspended by two pivoted rods in an inverted "V"-arrangement, the rods being coupled at its apex
2200/345  . with an axle suspended by two pivoted rods in "X"-arrangement
2200/346  . with an axle suspended by two laterally displaced rods having an imaginary point of intersection above the wheel axis
2200/347  . with an axle suspended by two laterally displaced rods having an imaginary point of intersection below the wheel axis
2200/40  . Indexing codes relating to the wheels in the suspensions
### Indexing codes related to the type of spring, damper or actuator

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2202/00</td>
<td><strong>Indexing codes relating to the type of spring, damper or actuator</strong></td>
</tr>
<tr>
<td>2202/10</td>
<td>Type of spring</td>
</tr>
<tr>
<td>2202/11</td>
<td>Leaf spring</td>
</tr>
<tr>
<td>2202/12</td>
<td>longitudinally arranged</td>
</tr>
<tr>
<td>2202/14</td>
<td>transversally arranged</td>
</tr>
<tr>
<td>2202/16</td>
<td>having a &quot;C&quot; form loaded only at its ends transversally to its central axis</td>
</tr>
<tr>
<td>2202/17</td>
<td>having a &quot;C&quot; form loaded parallel to its central axis</td>
</tr>
<tr>
<td>2202/12</td>
<td>Wound spring</td>
</tr>
<tr>
<td>2202/13</td>
<td>subjected to tension</td>
</tr>
<tr>
<td>2202/13</td>
<td>Torsion spring</td>
</tr>
<tr>
<td>2202/132</td>
<td>comprising a longitudinal torsion bar and/or tube</td>
</tr>
<tr>
<td>2202/135</td>
<td>Stabiliser bar and/or tube</td>
</tr>
<tr>
<td>2202/1351</td>
<td>comprising at least two stabiliser bars parallel to each other</td>
</tr>
<tr>
<td>2202/136</td>
<td>Twist-beam type arrangement</td>
</tr>
<tr>
<td>2202/1362</td>
<td>including a second torsional element, e.g. second beam, stabiliser bar or tube</td>
</tr>
<tr>
<td>2202/14</td>
<td>Plastic spring, e.g. rubber</td>
</tr>
<tr>
<td>2202/14</td>
<td>subjected to tension</td>
</tr>
<tr>
<td>2202/14</td>
<td>subjected to shear, e.g. Neidhart type</td>
</tr>
<tr>
<td>2202/14</td>
<td>Axial</td>
</tr>
<tr>
<td>2202/14</td>
<td>Torsional</td>
</tr>
<tr>
<td>2202/143</td>
<td>subjected to compression</td>
</tr>
<tr>
<td>2202/144</td>
<td>of rotary type</td>
</tr>
<tr>
<td>2202/15</td>
<td>Fluid spring</td>
</tr>
<tr>
<td>2202/15</td>
<td>Pneumatic spring</td>
</tr>
<tr>
<td>2202/1522</td>
<td>of rotary type</td>
</tr>
<tr>
<td>2202/1524</td>
<td>with two air springs per wheel, arranged before and after the wheel axis</td>
</tr>
<tr>
<td>2202/154</td>
<td>with an accumulator</td>
</tr>
<tr>
<td>2202/16</td>
<td>Magnetic spring</td>
</tr>
<tr>
<td>2202/20</td>
<td>Type of damper</td>
</tr>
<tr>
<td>2202/21</td>
<td>with two dampers per wheel, arranged before and after the wheel axis</td>
</tr>
<tr>
<td>2202/22</td>
<td>Rotary Damper</td>
</tr>
<tr>
<td>2202/23</td>
<td>Friction Damper</td>
</tr>
<tr>
<td>2202/24</td>
<td>Fluid damper</td>
</tr>
<tr>
<td>2202/242</td>
<td>Pneumatic damper</td>
</tr>
<tr>
<td>2202/25</td>
<td>Dynamic damper</td>
</tr>
<tr>
<td>2202/30</td>
<td>Spring/Damper and/or actuator Units</td>
</tr>
<tr>
<td>2202/31</td>
<td>with the spring arranged around the damper, e.g. MacPherson strut</td>
</tr>
<tr>
<td>2202/312</td>
<td>The spring being a wound spring</td>
</tr>
<tr>
<td>2202/314</td>
<td>The spring being a pneumatic spring</td>
</tr>
<tr>
<td>2202/32</td>
<td>The spring being in series with the damper and/or actuator</td>
</tr>
<tr>
<td>2202/322</td>
<td>the damper being controllable</td>
</tr>
<tr>
<td>2202/40</td>
<td>Type of actuator</td>
</tr>
<tr>
<td>2202/41</td>
<td>Fluid actuator</td>
</tr>
<tr>
<td>2202/412</td>
<td>Pneumatic actuator</td>
</tr>
<tr>
<td>2202/413</td>
<td>Hydraulic actuator</td>
</tr>
<tr>
<td>2202/414</td>
<td>using electrohydraulic valves</td>
</tr>
<tr>
<td>2202/415</td>
<td>using other types of valves, e.g. mechanically operated valves</td>
</tr>
<tr>
<td>2202/416</td>
<td>using a pump, e.g. in the line connecting the lower chamber to the upper chamber of the actuator</td>
</tr>
<tr>
<td>2202/42</td>
<td>Electric actuator</td>
</tr>
<tr>
<td>2202/422</td>
<td>Linear motor</td>
</tr>
<tr>
<td>2202/424</td>
<td>electrostrictive materials, e.g. piezoelectric actuator</td>
</tr>
<tr>
<td>2202/43</td>
<td>Mechanical actuator</td>
</tr>
<tr>
<td>2202/432</td>
<td>Spring motor</td>
</tr>
<tr>
<td>2202/44</td>
<td>Axial actuator, e.g. telescopic</td>
</tr>
<tr>
<td>2202/441</td>
<td>where axial movement is translated to rotation of the connected end part</td>
</tr>
<tr>
<td>2202/442</td>
<td>Rotary actuator</td>
</tr>
<tr>
<td>2202/45</td>
<td>Other types, e.g. external jets for stability with particular characteristics</td>
</tr>
<tr>
<td>2202/49</td>
<td>Other type, e.g. external jets for stability</td>
</tr>
</tbody>
</table>

### Indexing codes related to suspensions per se or to auxiliary parts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204/00</td>
<td><strong>Mounting of suspension elements</strong></td>
</tr>
<tr>
<td>2204/10</td>
<td>Mounting of suspension elements</td>
</tr>
<tr>
<td>2204/11</td>
<td>Mounting of sensors thereon</td>
</tr>
<tr>
<td>2204/11</td>
<td>on pneumatic springs</td>
</tr>
<tr>
<td>2204/11</td>
<td>on dampers, e.g. fluid dampers</td>
</tr>
<tr>
<td>2204/13</td>
<td>Tyre related sensors</td>
</tr>
<tr>
<td>2204/14</td>
<td>Steering column mounted sensors</td>
</tr>
<tr>
<td>2204/15</td>
<td>Wheel hub bearing sensors</td>
</tr>
<tr>
<td>2204/16</td>
<td>Sensors coupled to the suspension arm</td>
</tr>
<tr>
<td>2204/162</td>
<td>directly mounted on the suspension arm</td>
</tr>
<tr>
<td>2204/12</td>
<td>Mounting of springs or dampers</td>
</tr>
<tr>
<td>2204/121</td>
<td>Mounting of leaf springs</td>
</tr>
<tr>
<td>2204/122</td>
<td>Mounting of torsion springs</td>
</tr>
<tr>
<td>2204/1222</td>
<td>Middle mounts of stabiliser on vehicle body or chassis</td>
</tr>
<tr>
<td>2204/1224</td>
<td>End mounts of stabiliser on wheel suspension</td>
</tr>
<tr>
<td>2204/1226</td>
<td>on the trailing arms of a twist beam type arrangement</td>
</tr>
<tr>
<td>2204/124</td>
<td>Mounting of coil springs</td>
</tr>
<tr>
<td>2204/1242</td>
<td>on a damper, e.g. MacPerson strut</td>
</tr>
<tr>
<td>2204/12422</td>
<td>anchoring the end coils on the spring support plate</td>
</tr>
<tr>
<td>2204/1244</td>
<td>on a suspension arm</td>
</tr>
<tr>
<td>2204/1246</td>
<td>on twist beam axles</td>
</tr>
<tr>
<td>2204/125</td>
<td>Mounting of rubber type springs</td>
</tr>
<tr>
<td>2204/126</td>
<td>Mounting of pneumatic springs</td>
</tr>
<tr>
<td>2204/1262</td>
<td>on a damper</td>
</tr>
<tr>
<td>2204/127</td>
<td>with the mounting of springs or dampers moving so that the direction of the related force vector can be changed, thus contributing to a variation of the loading of the wheel</td>
</tr>
<tr>
<td>2204/128</td>
<td>Damper mount on vehicle body or chassis</td>
</tr>
<tr>
<td>2204/129</td>
<td>Damper mount on wheel suspension or knuckle</td>
</tr>
<tr>
<td>2204/13</td>
<td>with the spring, i.e. coil spring, or damper horizontally mounted</td>
</tr>
<tr>
<td>2204/1302</td>
<td>inside the vehicle frame</td>
</tr>
</tbody>
</table>
B60G

2204/14 . Mounting of suspension arms
2204/143 . on the vehicle body or chassis
2204/1431 . of an L-shaped arm
2204/1432 . by vertical bolts or studs
2204/1434 . in twist-beam axles arrangement
2204/147 . on the vehicle engine body
2204/148 . on the unsprung part of the vehicle, e.g. wheel knuckle or rigid axle
2204/1482 . on rigid axle by elastic mount
2204/1484 . on an intermediate upright strut upon which the sub axle is pivoted
2204/149 . Mounting of rigid axle on wheel knuckle
2204/15 . Mounting of subframes
2204/16 . Mounting of vehicle body on chassis
2204/162 . Cabins, e.g. for trucks, tractors
2204/17 . Mounting of bogies, e.g. for trailers
2204/18 . Mounting of vehicle engines
2204/182 . Electric motor on wheel support
2204/19 . Mounting of transmission differential
2204/20 . Mounting of accessories, e.g. pump, compressor
2204/201 . of fluid lines
2204/202 . of cables
2204/2022 . using a suspension element (e.g. link, damper or spring) as part of the electrical circuitry
2204/22 . Linking of trailers to trucks, e.g. truck-trailer connections
2204/30 . In-wheel mountings
2204/40 . Auxiliary suspension parts: Adjustment of suspensions
2204/41 . Elastic mounts, e.g. bushings
2204/4102 . having a pin or stud extending perpendicularly to the axis of the elastic mount
2204/4103 . having an eccentrically located inner sleeve
2204/4104 . Bushings having modified rigidity in particular 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 . Elasticokinematic mounts
2204/41062 . hydromounts; interconnected mounts
2204/4108 . Resilient element being enclosed and or press-tressed 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
2204/4191 . Planetary or epicyclic gears
2204/4192 . rack and pinion
2204/4193 . 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
2204/4222 . for movement on predefined locus of, e.g. the wheel center
2204/423 . Rails, tubes, or the like, for guiding the movement of suspension elements
2204/4232 . Sliding mounts
2204/424 . Mechanisms for force adjustment, e.g. constant force mechanisms
2204/4242 .
2204/4243 . Fittings, brackets or knuckles
2204/4302 . for fixing suspension arm on the vehicle body or chassis
2204/4304 . Bracket for lower cylinder mount of McPherson strut
2204/4305 . Bracket for mounting of hydraulic lines on a damper cylinder
2204/4306 . Bracket or knuckle for rigid axles, e.g. for clamping
2204/43065 . U-shaped bolts crossing each other
2204/4307 . Bracket or knuckle for torsional springs
2204/4308 . Protecting guards, e.g. for rigid axle damage protection
2204/44 . Centering or positioning means
2204/4402 . Spacers or shims
2204/4404 . Retainers for holding a fixing element, e.g. bushing, nut, bolt etc., until it is tightly fixed in position
2204/45 . Stops limiting travel
2204/4502 . using resilient buffer
2204/45021 . for limiting upper mount movement of a McPherson strut
2204/4504 . using cable or band to prevent extension
2204/46 . Means for locking the suspension
2204/4602 . Locking of a McPherson type strut upper mount on the vehicle body
2204/4604 . mechanically, e.g. using a hook as anticreep mechanism
2204/4605 . hydraulically, e.g. using a hook as anticreep mechanism
2204/47 . Means for retracting the suspension
2204/4702 . pneumatically
2204/48 . 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
2204/83022 . 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
2206/011 . Modular constructions
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 . Hollow or tubular elements
2206/0122 . 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
2206/014 . with reinforcing nerves or branches
2206/016 . allowing controlled deformation during collision
Materials used in suspensions

Subframe construction

- with two attachment points on the sprung part of the vehicle
- the arm forming a U-shaped recess for fitting a bush
- with middle section narrower than end section
- with a profile closing the profile in the total or partial length of the arm

Constructional features of semi-rigid axles, e.g. twist beam type axles

- with detachable cross beam and/or torsion stabiliser bar/tube
- with a radially deformed tube as a cross member
- with outwardly bent trailing arms to increase the width of the support or wheelbase

Constructional features of rigid axles

- Cranked axle
- Hollow cross section

Constructional features of dampers and/or springs

- Dampers
- Springs

Accumulators for hydropneumatic springs

- with a flexible separating wall; Membrane construction

Coil springs having a particular shape, e.g. curved axis, pig-tail end coils

Stabiliser bars or tubes

Leaf springs

Constructional features of wheel supports or knuckles, e.g. steering knuckles, spindle attachments

Subframe construction

- Hanger bracket
- Single transverse beam
- with two parallel beams connected by cross members

Flexible constructions

- Complex constructions
- Materials used in suspensions
B60G

2206/931 . . . McPherson strut positioning tool
2206/94 . . . Tools used for supporting parts
2206/99 . . . Suspension element selection procedure
depending on loading or performance
requirements, e.g. selection of damper, spring
or bush

2300/00 Indexing codes relating to the type of vehicle
2300/02 . Trucks: Load vehicles
2300/022 . . . Fork lift trucks, Clark
2300/024 . . . Light trucks
2300/026 . . . Heavy duty trucks
2300/0262 . . . Multi-axle trucks
2300/03 . Silo or fluid transporting vehicles
2300/04 . Trailers
2300/042 . . . Semi-trailers
2300/044 . . . Truck-trailer connections
2300/06 . Cranes
2300/07 . Off-road vehicles
2300/08 . Agricultural vehicles
2300/082 . . . Tractors
2300/083 . Boom carrying vehicles, e.g. for crop spraying
2300/084 . . . Ridable lawn mowers
2300/09 . Construction vehicles, e.g. graders, excavators
2300/10 . Railway vehicles
2300/102 . . having track following mechanism for lateral
stability
2300/12 . Cycles; Motorcycles
2300/122 . . . Trikes
2300/124 . . . Quads
2300/13 . Small sized city motor vehicles
2300/14 . Buses
2300/16 . Aeroplanes
2300/18 . Helicopters
2300/20 . Toys
2300/22 . Perambulators
2300/24 . Wheelchairs
2300/26 . Carts
2300/27 . Racing vehicles, e.g. F1
2300/28 . Amphibious vehicles
2300/30 . Load ramps
2300/32 . Track vehicles
2300/322 . . Snowmobiles
2300/34 . Ambulances
2300/36 . Independent Multi-axle long vehicles
2300/37 . Vehicles having steerable wheels mounted on a
vertically moving column
2300/38 . Low or lowerable bed vehicles
2300/40 . Variable track or wheelbase vehicles
2300/402 . . Extra load carrying wheels, e.g. tag axles
2300/45 . Rolling frame vehicles
2300/50 . Electric vehicles; Hybrid vehicles
2300/60 . Vehicles using regenerative power

2400/00 Indexing codes relating to detected, measured or
calculated conditions or factors
2400/05 . . . Attitude
2400/051 . . . Angle
2400/0511 . . . Roll angle
2400/0512 . . . Pitch angle
2400/0513 . . . Yaw angle
2400/0514 . . . Wheel angle detection
2400/05142 . . . Wheel camber
2400/05144 . . . Wheel toe
2400/05146 . . . Wheel caster
2400/0516 . . . Angular position of a suspension element
2400/05162 . . . the element being a suspension arm
2400/052 . . . Angular rate
2400/0521 . . . Roll rate
2400/0522 . . . Pitch rate
2400/0523 . . . Yaw rate
2400/053 . . . Angular acceleration
2400/0531 . . . Roll acceleration
2400/0532 . . . Pitch acceleration
2400/0533 . . . Yaw acceleration
2400/10 . . Acceleration; Deceleration
2400/102 . . vertical
2400/104 . . lateral or transversal with regard to vehicle
2400/1042 . . using at least two sensors
2400/106 . . longitudinal with regard to vehicle, e.g. braking
2400/1062 . . using at least two sensors
2400/20 . . Speed
2400/202 . . Piston speed; Relative velocity between vehicle
body and wheel
2400/204 . . Vehicle speed
2400/2042 . . . Lateral speed
2400/206 . . Body oscillation speed; Body vibration frequency
2400/208 . . of wheel rotation
2400/25 . . Stroke; Height; Displacement
2400/252 . . vertical
2400/256 . . horizontal
2400/257 . . transversal with regard to vehicle
2400/258 . . longitudinal with regard to vehicle
2400/30 . . Propulsion unit conditions
2400/302 . . Selected gear ratio; Transmission function
2400/304 . . neutral position
2400/306 . . overdrive
2400/31 . . Clutch condition
2400/32 . . Torque on propulsion shaft
2400/33 . . Throttle position
2400/34 . . Accelerator pedal position
2400/35 . . Position of fuel or air injector
2400/36 . . Functioning of turbocharger
2400/37 . . Brake pad or disc friction
2400/38 . . Speed of engine rotation
2400/382 . . . Ignition switch
2400/39 . . . Brake pedal position
2400/40 . . . Steering conditions
2400/41 . . . Steering angle
2400/412 . . . of steering wheel or column
2400/4122 . . . Neutral position detection
2400/42 . . . Steering torque
2400/44 . . . Steering speed
2400/46 . . . Steering frequency
2400/47 . . . Rear wheel steering
2400/50 . . Pressure
2400/51 . . in suspension unit
2400/512 . . . in spring
2400/5122 . . . Fluid spring
2400/51222 . . . . Pneumatic
2400/518 . . in damper
2400/5182 . . . Fluid damper
2400/52 . . in tyre
2400/60 . . Load
2400/61 . . . Load distribution
2400/62 . . . Seat occupation; Passenger presence
2400/63 . . . Location of the center of gravity
2400/64 . . . Wheel forces, e.g. on hub, spindle or bearing
2400/70 . . . Temperature of vehicle part or in the vehicle
2400/71 . . . of suspension unit
2400/712 . . . of spring
2400/7122 . . . . Fluid spring
2400/716 . . . of damper
2400/7162 . . . . Fluid damper
2400/72 . . . in vehicle interior
2400/73 . . . of other part than suspension unit
2400/732 . . . of propulsion unit
2400/80 . . . Exterior conditions
2400/82 . . . Ground surface
2400/821 . . . Uneven, rough road sensing affecting vehicle body vibration
2400/822 . . . Road friction coefficient determination affecting wheel traction
2400/8222 . . . . Hydroplaning
2400/823 . . . Obstacle sensing
2400/824 . . . Travel path sensing; Track monitoring
2400/84 . . . Atmospheric conditions
2400/841 . . . Wind
2400/842 . . . Temperature
2400/8422 . . . . of air
2400/8424 . . . . of ground or road
2400/843 . . . Humidity; Rainfall
2400/845 . . . Darkness
2400/847 . . . Sunshine; Light
2400/90 . . . Other conditions or factors
2400/901 . . . Frequency
2400/902 . . . Travelling or driving time
2400/9022 . . . . Travelling distance
2400/904 . . . Deformation of a vehicle part
2400/9042 . . . . of vehicle body
2400/905 . . . Position of vehicle body elements
2400/9052 . . . . of door or bonnet
2400/9054 . . . Wheelbase
2400/906 . . . Presence, absence or inactivity of driver
2400/907 . . . Relation between towing and towed vehicle, e.g. tractor-trailer combination
2400/9072 . . . . Angle of articulation
2400/9098 . . . . Stabiliser movement

2401/00 Indexing codes relating to the type of sensors based on the principle of their operation
2401/10 . . . Piezoelectric elements
2401/11 . . . Electrostrictive transducers
2401/12 . . . Strain gauge
2401/122 . . . . Wheatstone bridge circuit
2401/14 . . . Photo or light sensitive means, e.g. Infrared
2401/142 . . . . Visual Display Camera, e.g. LCD
2401/144 . . . Fiber optic sensor
2401/15 . . . Doppler effect
2401/16 . . . GPS track data
2401/17 . . . Magnetic/Electromagnetic
2401/172 . . . . Hall effect
2401/174 . . . . Radar
2401/176 . . . . Radio or audio sensitive means, e.g. Ultrasonic
2401/19 . . . Speech recognising means
2401/20 . . . Switches, e.g. mercury or ball type switches
2401/21 . . . Laser
2401/22 . . . Radioactivity sensitive materials
2401/23 . . . Memory materials
2401/24 . . . Heat sensitive materials; temperature gauge
2401/25 . . . Capacitance type, e.g. as level indicator
2401/26 . . . Resistance type, e.g. as level indicator
2401/27 . . . Gravitational, e.g. pendulum or axial movement type
2401/28 . . . Gyroscopes
2401/90 . . . . Single sensor for two or more measurements
2401/902 . . . . the sensor being an xy axis sensor
2401/904 . . . . the sensor being an xyz axis sensor

2500/00 Indexing codes relating to the regulated action or device
2500/02 . . . . Supply or exhaust flow rates; Pump operation
2500/22 . . . . Minimisation of pressure cavitation effects upon demand
2500/04 . . . . using inertia type valves
2500/10 . . . . Damping action or damper
2500/102 . . . . stepwise
2500/104 . . . . continuous
2500/106 . . . . duty rate
2500/11 . . . . Damping valves
2500/112 . . . . Fluid actuation
2500/114 . . . . pressure regulating valves
2500/116 . . . . for damping pressure oscillations of the fluid in hydraulic lines
2500/20 . . . . Spring action or springs
2500/201 . . . . Air spring system type
2500/2012 . . . . Open systems
2500/2014 . . . . Closed systems
2500/202 . . . . Height or leveling valve for air-springs
2500/2021 . . . . Arrangement of valves
2500/2022 . . . . with valve seat actuation for selectively adjusting neutral height
2500/203 . . . . Distributor valve units comprising several elements, e.g. valves, pump or accumulators
2500/204 . . . . Pressure regulating valves for air-springs
2500/2041 . . . . for variable volume air springs, e.g. using accumulators as expansion chambers
2500/2042 . . . . Air filling valves
2500/2043 . . . . Wheatstone bridge type valve arrangements
2500/2044 . . . . Air exhausting valves
2500/2046 . . . . Pressure equalising valves between two units
2500/205 . . . . Air-compressor operation
2500/206 . . . . Variable pressure accumulators for hydropneumatic suspensions
2500/2062 . . . . by varying the air-pressure of the accumulator
2500/2064 . . . . by varying the number of accumulators connected in parallel to the hydraulic cylinder
2500/22 . . . . Spring constant
2500/30 . . . . Height or ground clearance
2500/302 . . . . using distributor valves
2500/32 . . . . of only one vehicle part or side
2500/322 . . . . only front part
2500/324 . . . . only rear part
2500/326 . . . . only left or right side
2500/40 . . . . Steering
2500/42 . . . . Sensibility
Indexing codes relating to particular elements, systems or processes used on suspension systems or suspension control systems

- Retarders, delaying means, dead zones, threshold values, cut-off frequency, timer interruption
- Means for informing, instructing or displaying
- Monitoring means
- involving data transmission, e.g. via satellite or GPS; for data monitoring, telemetry or platooning purposes
- Alarm means
- Inhibiting means
- Failure or malfunction detecting means
- Sensor drift
- Supervisory systems
- Redundant systems
- Feedback signal
- Feedforward signal
- Sampling or average detecting; Addition or substraction
- Summation signal
- Error signal
- Differentiating means, i.e. differential control
- Integrating means, i.e. integral control
- Proportional control, i.e. gain control
- Weighting coefficients or factors
- Automatic control means
- Signal modulation; pulse-width, frequency-phase
- Active control means
- Semi-Active control means
- Analogue Controller Details and Signal Treatment
- Digital Controller Details and Signal Treatment
- Optimal control; Kalman Filters
- Observer; Luaponov function
- Model Following
- Modal analysis
- 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
- Temporary fluctuations
- SISO system, i.e. single input - single output system

2800/00 Indexing codes relating to the type of movement or to the condition of the vehicle and to the end result to be achieved by the control action

- Attitude or posture control
- Rolling condition
- Roll rigidity ratio; Warping
- Roll-over conditions
- Pitch; Nose dive
- Yawing condition
- Inclination due to load distribution or road gradient
- longitudinal with regard to vehicle
- transversal with regard to vehicle
- Running
- Reducing road induced vibrations
- Heaving; Squatting
- Platoonning
- Starting, accelerating
- Traction
- Stationary vehicle
- kneeling, e.g. for letting passengers on/off
- lowering the floor for loading/unloading
- adjusting floor height to the loading ramp level
- using an anticreep mechanism to lock the height
- jacking-up for changing tyre or vehicle inspection
- Traction, slip, skid or slide control
- Transversal; Side-slip during cornering
- by applying forward/backward torque on each wheel individually
- by varying the load distribution
- by applying a braking action on each wheel individually
- Braking, stopping
- during collision
- automatically, based on dangerous living style
- automatically, based on stopping at a preset or target point position
- Steering, cornering
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2800/242</td>
<td>Obstacle avoidance manoeuvre</td>
</tr>
<tr>
<td>2800/244</td>
<td>Oversteer</td>
</tr>
<tr>
<td>2800/246</td>
<td>Understeer</td>
</tr>
<tr>
<td>2800/248</td>
<td>Neutral steering behaviour</td>
</tr>
<tr>
<td>2800/70</td>
<td>Estimating or calculating vehicle parameters or state variables</td>
</tr>
<tr>
<td>2800/702</td>
<td>Improving accuracy of a sensor signal</td>
</tr>
<tr>
<td>2800/7022</td>
<td>Calibration of a sensor, e.g. automatically</td>
</tr>
<tr>
<td>2800/704</td>
<td>predicting unorthodox driving conditions for safe or optimal driving</td>
</tr>
<tr>
<td>2800/80</td>
<td>Detection or control after a system or component failure</td>
</tr>
<tr>
<td>2800/802</td>
<td>Diagnostics</td>
</tr>
<tr>
<td>2800/85</td>
<td>System Prioritisation</td>
</tr>
<tr>
<td>2800/87</td>
<td>System configuration based on vehicle type or model</td>
</tr>
<tr>
<td>2800/90</td>
<td>System Controller type</td>
</tr>
<tr>
<td>2800/91</td>
<td>Suspension Control</td>
</tr>
<tr>
<td>2800/912</td>
<td>Attitude Control; levelling control</td>
</tr>
<tr>
<td>2800/9122</td>
<td>ARS - Anti-Roll System Control</td>
</tr>
<tr>
<td>2800/9123</td>
<td>Active Body Control [ABC]</td>
</tr>
<tr>
<td>2800/9124</td>
<td>Roll-over protection systems, e.g. for warning or control</td>
</tr>
<tr>
<td>2800/914</td>
<td>Height Control System</td>
</tr>
<tr>
<td>2800/915</td>
<td>Suspension load distribution</td>
</tr>
<tr>
<td>2800/916</td>
<td>Body Vibration Control</td>
</tr>
<tr>
<td>2800/92</td>
<td>ABS - Brake Control</td>
</tr>
<tr>
<td>2800/922</td>
<td>EBV - Electronic brake force distribution</td>
</tr>
<tr>
<td>2800/925</td>
<td>Airbag deployment systems</td>
</tr>
<tr>
<td>2800/93</td>
<td>Skid or slide control [ASR]</td>
</tr>
<tr>
<td>2800/94</td>
<td>Electronic Stability Program (ESP, i.e. ABS +ASC+EMS)</td>
</tr>
<tr>
<td>2800/95</td>
<td>Automatic Traction or Slip Control [ATC]</td>
</tr>
<tr>
<td>2800/952</td>
<td>Electronic driving torque distribution</td>
</tr>
<tr>
<td>2800/954</td>
<td>Four-wheel drive</td>
</tr>
<tr>
<td>2800/96</td>
<td>ASC - Assisted or power Steering control</td>
</tr>
<tr>
<td>2800/962</td>
<td>Four-wheel steering</td>
</tr>
<tr>
<td>2800/963</td>
<td>Steer-by-wire</td>
</tr>
<tr>
<td>2800/964</td>
<td>Auto-navigation</td>
</tr>
<tr>
<td>2800/965</td>
<td>Automatic or driver-independent manoeuvre, e.g. for obstacle avoidance or roll-over prevention</td>
</tr>
<tr>
<td>2800/97</td>
<td>Engine Management System [EMS]</td>
</tr>
<tr>
<td>2800/972</td>
<td>Electronic Differential Lock [EDS]</td>
</tr>
<tr>
<td>2800/98</td>
<td>Intelligent Transportation System or Bus [IDB]</td>
</tr>
<tr>
<td>2800/982</td>
<td>Active Cruise Control, e.g. DISTRONIC type</td>
</tr>
<tr>
<td>2800/984</td>
<td>Tyre Pressure Monitoring Systems</td>
</tr>
</tbody>
</table>