Title (en)

AIR SPRING CONTROL SYSTEM, AIR SPRING SYSTEM, VEHICLE COMPRISING SAME, AND METHOD FOR SAME

Title (de)

LUFTFEDERSTEUERUNGSSYSTEM UND LUFTFEDERSYSTEM SOWIE FAHRZEUG DAMIT UND VERFAHREN DAFÜR

Title (fr)

SYSTÈME DE COMMANDE DE SUSPENSION PNEUMATIQUE ET SUSPENSION PNEUMATIQUE AINSI QUE VÉHICULE ÉQUIPÉ DE CELLE-CI OU DE CEUX-CI ET PROCÉDÉ ASSOCIÉ

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Application

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Abstract (en)

[origin: WO2021089868A1] The invention relates to an air spring control system (10) for a vehicle (48) with a first axle (36a) and a second axle (36b). The air spring control system (10) has a main control unit (12) for operating the air spring control system (10), and a secondary control unit (14) connected to the main control unit (12) by means of a data connection (16). The secondary control unit (14) has a pressure sensor (46) allocated to the first axle (36a) of the vehicle for measuring pressure values of the first axle (36a) as pressure sensor signals and an input (22) for receiving height sensor signals. The input (22) of the secondary control unit (14) can be connected to a first height sensor (44) located on the first axle (36a) of the vehicle for receiving first height measurement values as first height sensor signals and to a second height sensor (44) located on the second axle (36b) of the vehicle for receiving second height measurement values as second height sensor signals. The secondary control unit (14) is configured to transfer, via the data connection, the first and/or second height sensor signals and/or the pressure sensor signals to the main control unit (12). The main control unit (12) is configured to carry out an axle load sensing for the first axle (36a) and/or the second axle (36b) depending on the first and/or second height sensor signals and/or the pressure sensor signals. The invention also relates to an air spring system (26) that can be controlled by means of an air spring control system (10), a vehicle (48) comprising such an air spring system (26) and/or air spring control system (10), and a method for operating such a vehicle (48).

IPC 8 full level

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