

Title (en)

TRANSVERSE SPRINGING FOR A RAIL VEHICLE AND METHOD OF CONTROLLING THE ORIENTATION OF A RAIL-VEHICLE BODY BY SUCH SPRINGING

Title (de)

QUERFEDERUNG FÜR EIN SCHIENENFAHRZEUG UND VERFAHREN ZUM STEUERN DER STELLUNG EINES SCHIENENFAHRZEUG-WAGENKASTENS

Title (fr)

SUSPENSION TRANSVERSALE POUR VEHICULE SUR RAILS ET PROCEDE DE REGLAGE DE LA POSITION D'UNE CAISSE DE WAGON DE VEHICULE SUR RAILS

Publication

EP 0764104 B1 19981007 (DE)

Application

EP 95921774 A 19950529

Priority

- DE 4420367 A 19940610
- EP 9502039 W 19950529

Abstract (en)

[origin: WO9534455A1] The rail-vehicle transverse springing described includes spring elements (9, 10) for springing the vehicle body (1), relative to the chassis (2) on which it is mounted, against lateral forces, hydraulic-fluid work elements (5, 6) designed to apply force between the body and the chassis, the work elements being connected to two independent branches (A, B) of the system and their pressures being controlled by means of a controller (11) and a pressure generator (12), plus a motion pickup (11) designed to generate a signal (y/U), fed to the controller, which gives the departure of the vehicle body from its central position with respect to the chassis. The invention calls for each of the independent system branches (A and B) to be linked hydraulically to at least one accumulator element (9 and 10, respectively) with a spring action and for the work elements (5 and 6, respectively) to be operated as drives, a valve-control block (17) being activated by the controller (12) to connect selectively one of the two system branches to a high-pressure pump in order to control the banking of the vehicle body, by changing the pressure in the drive elements, to bring the vehicle body into its ideal banking position under the springing action of the accumulator elements. Also described is a method for the active control of the orientation of the rail-vehicle body relative to the chassis by means of the transverse springing as a function of running conditions or information concerning the track.

IPC 1-7

B61F 5/24

IPC 8 full level

B61F 5/24 (2006.01)

CPC (source: EP)

B61F 5/245 (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9534455 A1 19951221; AT E171902 T1 19981015; DE 4420367 C1 19950817; DE 59503858 D1 19981112; EP 0764104 A1 19970326; EP 0764104 B1 19981007; ES 2125019 T3 19990216; FI 964464 A0 19961106; FI 964464 A 19961106; NO 307038 B1 20000131; NO 965110 D0 19961129; NO 965110 L 19961129; PL 317581 A1 19970414

DOCDB simple family (application)

EP 9502039 W 19950529; AT 95921774 T 19950529; DE 4420367 A 19940610; DE 59503858 T 19950529; EP 95921774 A 19950529; ES 95921774 T 19950529; FI 964464 A 19961106; NO 965110 A 19961129; PL 31758195 A 19950529