

Title (en)
VEHICLE HAVING PITCH COMPENSATION

Title (de)
FAHRZEUG MIT WANKKOMPENSATION

Title (fr)
VÉHICULE À COMPENSATION DU ROULIS

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Abstract (en)
[origin: CA2756252A1] The invention relates to a vehicle, in particular a rail vehicle, having a car body (102) that is supported on an undercarriage (104) via a suspension (103) in the direction of a vehicle vertical axis and a roll compensation device (105) that is coupled to the car body (102) and the undercarriage (104). The roll compensation device (105) can be in particular arranged kinematically parallel to the suspension (103). During cornering, the roll compensation device (105) counteracts roll movements of the car body (102) to the outside of the curve around a roll axis parallel to a vehicle longitudinal axis. To increase inclination comfort, the roll compensation device (105) is designed to characterize a first roll angle around the roll axis to the car body (102) in a first frequency region under a first transverse excursion of the car body (102) in the direction of a vehicle transverse axis that corresponds to a current curvature of a rail section currently being traversed. Furthermore, the roll compensation device (105) is designed to characterize a second transverse excursion overlapping the first transverse excursion in a second frequency range to the car body (102) in order to increase vibration comfort, wherein the second frequency range lies at least partially, in particular completely, outside of the first frequency range.

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