

Title (en)

Railroad car body rotation control system

Title (de)

Steuersystem für die Neigung eines Eisenbahnwagenkastens

Title (fr)

Système de contrôle d'inclinaison d'une caisse d'un véhicule ferroviaire

Publication

EP 0713817 B1 19990407 (EN)

Application

EP 95118464 A 19951123

Priority

IT TO940956 A 19941125

Abstract (en)

[origin: EP0713817A1] A control system wherein an electronic control unit (14) generates a drive signal for a hydraulic device (13l, 13r, 15) for rotating the body (11) of a railroad car (3) about a longitudinal axis (G) of the car to reduce the non-compensated transverse acceleration to which the passengers are subjected. The control system presents a differentiating circuit (37) and a proportional circuit (31), which are supplied with an error signal (θ_e) equal to the difference between a reference signal (θ_c) and a feedback signal (θ_z) indicating the actual tilt angle of the body. The outputs of the differentiating circuit (37) and the proportional circuit (31) are added to generate a drive signal for driving the hydraulic device (13l, 13r, 15); and the differentiating circuit (37) presents a derivative gain (Gd) which is a function of the derivative in time ($d|\theta_e|/dt$) of the error signal (θ_e) modulus. <IMAGE> <IMAGE>

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CPC (source: EP)

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Cited by

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