

Title (en)

DEVICE AND METHOD FOR IMPROVING A COEFFICIENT OF FRICTION BETWEEN A WHEEL AND A RAIL FOR A RAIL VEHICLE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERBESSERN EINES HAFTWERTS ZWISCHEN EINEM RAD UND EINER SCHIENE FÜR EIN SCHIENENFAHRZEUG

Title (fr)

DISPOSITIF ET PROCÉDÉ D'AMÉLIORATION D'UN COEFFICIENT D'ADHÉRENCE ENTRE UNE ROUE ET UN RAIL DE VÉHICULE FERROVIAIRE

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Application

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Abstract (en)

[origin: WO2015044246A1] The present invention relates to a method (700) for improving a coefficient of friction (340) between a wheel (104) and a rail (106) for a rail vehicle (100). In this context, the rail vehicle (100) has an anti-slip device (114) and a sanding device (102), wherein the anti-slip device (114) is designed to determine the coefficient of friction (340) between the wheel (104) and the rail (106), wherein at least one sanding parameter (234) of the sanding device (102) can be set, wherein sand (110) can be discharged by the sanding device (102) in accordance with the sanding parameter (234). The method (700) comprises a changing step (710) in which the sanding parameter (234) is changed in order to discharge sand (110) in accordance with the sanding parameter (234), wherein the changing step takes place within a predefined optimisation range (654) about a setpoint value (346) of the sanding parameter (234), a determining step (720) in which at least two coefficients of friction (340) are determined during the sanding parameter (234) which was changed in the changing step (710), in order to determine a coefficient of friction (340) for, in each case, one of at least two different values of the sanding parameter (234), a detection step (730) in which an optimum coefficient of friction from the at least two coefficients of friction (340) is detected in order to determine an optimum sanding parameter (344), and a setting step (740) in which the setpoint value (346) for the sanding parameter (234) is set to the optimum sanding parameter (344) in order to bring about an improvement in the coefficient of friction (340).

IPC 8 full level

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