

Title (en)

METHOD FOR INCREASING THE INTERFERENCE RESISTANCE OF A WHEEL SENSOR AND WHEEL SENSOR FOR CARRYING OUT THE METHOD

Title (de)

VERFAHREN ZUR ERHÖHUNG DER STÖRSICHERHEIT EINES RADSSENSORS UND RADSSENSOR ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ POUR AUGMENTER L'IMMUNITÉ AUX PARASITES D'UN CAPTEUR DE ROUE ET CAPTEUR DE ROUE POUR EXÉCUTER CE PROCÉDÉ

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Application

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Abstract (en)

[origin: WO2009098101A1] The invention relates to a method for increasing the interference resistance of a wheel sensor, in particular for a track clear detection system, wherein a transmission signal (13) is produced in at least one sensor channel, said signal being inductively coupled (4) to a reception signal (5) that is fed to an evaluation device (10) for detection of a magnetic field change as a result of a railway vehicle having traveled over the track (3), and a corresponding wheel sensor. In order to counteract the interference effect using eddy current braking, it is provided that a level separation between a utility signal to be evaluated and an interference signal is maximized in relation to a phase difference (16) between the transmission signal (13) and the reception signal (5), said difference being specific to the interference signal.

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