

Title (en)

METHOD AND DEVICE FOR CHECKING RAILWAY WHEELSETS FOR SURFACE DEFECTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PRÜFUNG VON EISENBAHN-RADSÄTZEN AUF OBERFLÄCHENFEHLER

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE CONTRÔLER LES DÉFAUTS À LA SURFACE D'ESSIEUX FERROVIAIRES

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Application

EP 20703146 A 20200114

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Abstract (en)

[origin: WO2020156804A1] The invention relates to a method and a device for checking railway wheelsets for defects on the surface of the wheelsets using a magnet powder method, wherein elements of the wheelsets, in particular axles and wheels, are magnetized in some regions by means of an electric coil assembly for testing purposes, magnet powder is applied to the elements in the checking region of the coil assembly, and the distribution of the magnet powder which occurs when the magnetic field is activated is evaluated. According to the invention, a combination is used consisting of a first coil assembly (11), arranged in a stationary manner relative to the wheel (9, 10) to be checked, for magnetizing some sections and checking the wheel (9, 10) and a second coil assembly (18) which can be moved axially relative to the axle to be checked for magnetizing a part of the circumference and checking the axle shaft (8). In order to completely check a wheel, the wheel is rotated after checking each wheel section. The axle shaft (8) is checked using the second coil assembly (18) at positions which follow one another in the axial direction in a partly circumferential manner in each case. Wheels (9, 0) and axles (8) of the wheelset can be magnetized and checked simultaneously or in a chronologically alternating manner.

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