

Title (en)

Method of measuring the temperatures of axles and bearings for detection of hot-boxes.

Title (de)

Verfahren zum Messen von Achs- und Lagertemperaturen zur Ortung von Heissläufern.

Title (fr)

Procédé pour mesurer les températures des essieux et des paliers pour détecter des boîtes chaudes.

Publication

**EP 0457752 B1 19931215 (DE)**

Application

**EP 91890096 A 19910506**

Priority

AT 111490 A 19900518

Abstract (en)

[origin: EP0457752A1] In a method for measuring temperatures of axles and bearings for locating hot boxes in rolling railway traffic with infrared receivers with an oscillating sensing beam (1) which is directed transversely with respect to the longitudinal direction of the rails, the analog measured values of the infrared receiver (7) are digitised and logically connected to the oscillation frequency or the orientation of the sensing beam, at least two complete oscillations of the sensing beam (1) being evaluated per axle, in which case a mean value is formed from the measured value corresponding to a subregion of a first oscillation of the sensing beam (1) and the measured value or values corresponding to the appropriate subregion of subsequent oscillations of the sensing beam (1). Here, the formation of mean values is repeated over a predetermined maximum number of oscillations of the sensing beam (1) and/or as long as a further signal triggered by the wheel indicates the same axle in the measuring angle of the sensor (7), and the respective highest mean value of the measured values of corresponding subregions is evaluated. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

**B61K 9/06** (2013.01 - EP US); **Y10S 246/02** (2013.01 - EP US)

Cited by

CN104165707A; DE102008033856B3; DE102009029891A1; EP2146193A1; EP0949134A1

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