

Title (en)  
DETECTION OF DERAILMENT BY DETERMINING THE RATE OF FALL

Title (de)  
ENTGLEISUNGSDETEKTION DURCH FALLGESCHWINDIGKEITSBESTIMMUNG

Title (fr)  
DETECTION DE DERAILLEMENT PAR DETERMINATION DE LA VITESSE DE CHUTE

Publication  
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Application  
**EP 04733271 A 20040517**

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Abstract (en)  
[origin: WO2004101343A1] The invention relates to a method and device for recognizing a derailment state of wheel (RAD) of a railway vehicle, in which the acceleration of the wheel (RAD) perpendicular to a rail plane ( epsilon ) is measured by at least one acceleration sensor (SEN). A rate of fall (FAG) of the wheel (RAD) in the direction of the rail plane ( epsilon ) is determined based on an acceleration signal (BSI), which is produced by the acceleration sensor (SEN), by simple integration (INT) of a value that can be predetermined over a time window, and the existence of a derailed state is verified based on the determined rate of fall (FAG).

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