

Title (en)

DEVICE FOR DETERMINING THE ACCELERATION OF THE WHEEL OF A VEHICLE

Title (de)

VORRICHTUNG ZUR ERMITTLUNG DER BESCHLEUNIGUNG EINES FAHRZEUGRADES

Title (fr)

DISPOSITIF POUR DETERMINER L'ACCELERATION D'UNE ROUE DE VEHICULE

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Application

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Abstract (en)

[origin: WO2004000578A2] The invention relates to a device for determining the acceleration of the wheel of a vehicle (2), comprising a radio sensor (6) which is arranged in the wheel of a vehicle, (2) transmitting the acceleration information as a radio signal to a receiver. The radio sensor (6) consists of a surface wave (OFW) component (4) with at least one material m (8) fixed thereto such that acceleration of the vehicle causes the length of the surface wave (OFW) component (4) to be modified, which can be detected as a modification in the propagation time of mechanical waves. The propagation time modification is transmitted to the receiver as acceleration information. Said measures make it possible to dispense with a complex sensor system for the determination of wheel speed.

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