

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

Publication

**EP 1530520 A2 20050518 (DE)**

Application

**EP 03729969 A 20030502**

Priority

- DE 10227768 A 20020621
- EP 0304637 W 20030502

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.

IPC 1-7

**B60C 23/00**

IPC 8 full level

**B60C 23/04** (2006.01); **B60T 8/171** (2006.01); **G01P 3/44** (2006.01); **G01P 15/08** (2006.01); **G01P 15/097** (2006.01)

CPC (source: EP)

**B60C 23/0408** (2013.01); **B60C 23/0433** (2013.01); **B60T 8/171** (2013.01); **G01P 3/44** (2013.01); **G01P 15/0888** (2013.01); **G01P 15/0975** (2013.01)

Citation (search report)

See references of WO 2004000578A2

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

**WO 2004000578 A2 20031231**; **WO 2004000578 A3 20050324**; DE 10227768 A1 20040115; EP 1530520 A2 20050518

DOCDB simple family (application)

**EP 0304637 W 20030502**; DE 10227768 A 20020621; EP 03729969 A 20030502