

Title (en)

LASER SENSORS DIRECTED ONTO THE ROAD SURFACE FOR DETECTING THE MOTION OF A VEHICLE

Title (de)

AUF DIE STRASSENOBERFLÄCHE GERICHTETE LASERSENSOREN ZUM ERFASSEN DER BEWEGUNG EINES FAHRZEUGS

Title (fr)

CAPTEURS LASER ORIENTÉS VERS LA SURFACE DE CHAUSSÉE POUR LA DÉTECTION DU DÉPLACEMENT D'UN VÉHICULE

Publication

**EP 2193390 A1 20100609 (DE)**

Application

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- DE 102008015863 A 20080326
- DE 102008038615 A 20080812

Abstract (en)

[origin: WO2009037278A1] The invention relates to a sensor device for detecting a motion state of a motor vehicle (101). The sensor device comprises at least one laser unit (108a) having a light source for emitting coherent light transmitted in the direction of a road surface (104), and an interference detector designed to detect at least one measurement variable characterizing an interference between the light scattered on the surface and the light from the light source. The measurement variable represents a speed component of the sensor device and/or a distance between the sensor device and the road surface (104). The laser unit (108a) is coupled to an evaluation device (110) designed to determine from the measurement variable at least one parameter characterizing the motion state of the vehicle (101), particularly a speed component of the center of gravity of the vehicle, an angle of rotation, or a rate of rotation of the vehicle.

IPC 8 full level

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Citation (search report)

See references of WO 2009037278A1

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US 3362024 A 19680102 - BADEWITZ CHARLES J

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CN115236627A

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