

Title (en)

METHOD FOR COMBINED DETERMINING OF A MOMENTARY ROLL ANGLE OF A MOTOR VEHICLE AND A MOMENTARY ROADWAY CROSS SLOPE OF A CURVED ROADWAY SECTION TRAVELED BY THE MOTOR VEHICLE

Title (de)

VERFAHREN ZUM KOMBINIERTEN BESTIMMEN EINES MOMENTANEN WANKWINKELS EINES KRAFTFAHRZEUGS UND EINER MOMENTANEN FAHRBAHN-QUERNEIGUNG EINES VON DEM KRAFTFAHRZEUG BEFAHRENNEN KURVENFÖRMIGEN FAHRBAHNABSCHNITTS

Title (fr)

PROCÉDÉ DE DÉTERMINATION COMBINÉE DE L'ANGLE DE ROULIS MOMENTANÉ D'UN VÉHICULE À MOTEUR ET DE LA PENTE TRANSVERSALE MOMENTANÉE DE LA CHAUSSEE DANS UN TRONÇON DE CHAUSSEE EN FORME DE COURBE PARCOURU PAR LE VÉHICULE

Publication

EP 2934924 A1 20151028 (DE)

Application

EP 13785362 A 20131031

Priority

- DE 102012024971 A 20121220
- EP 2013003286 W 20131031

Abstract (en)

[origin: DE102012024971A1] The method involves determining current road transverse slope (ϕ -fb) and the current vehicle roll angle (ϕ -a) from the chassis data and transverse dynamics data of a motor vehicle (1). The current vehicle roll angle is calculated from the current lateral acceleration (a -y), the current speed (v -x) and the current yaw speed of the motor vehicle. The current road transverse slope is calculated from the current vehicle roll angle, a current chassis roll angle (w) and a current tire roll angle. An independent claim is included for a device for combined determination of a current roll angle of a motor vehicle and a current road transverse slope of a curved road section driven by the motor vehicle.

IPC 8 full level

B60G 17/016 (2006.01)

CPC (source: EP US)

B60G 17/0162 (2013.01 - EP US); **B60W 40/06** (2013.01 - EP US); **B60W 40/112** (2013.01 - EP US); **B60G 2400/0511** (2013.01 - EP US); **B60G 2400/0523** (2013.01 - EP US); **B60G 2400/104** (2013.01 - EP US); **B60G 2400/204** (2013.01 - EP US); **B60G 2400/52** (2013.01 - EP US); **B60G 2400/60** (2013.01 - EP US); **B60G 2800/70** (2013.01 - EP US); **B60G 2800/9123** (2013.01 - EP US); **B60W 2520/10** (2013.01 - EP US); **B60W 2520/125** (2013.01 - EP US); **B60W 2520/14** (2013.01 - EP US); **B60W 2520/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2014094933A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102012024971 A1 20130704; CN 104853941 A 20150819; EP 2934924 A1 20151028; US 2016001783 A1 20160107; US 9849886 B2 20171226; WO 2014094933 A1 20140626

DOCDB simple family (application)

DE 102012024971 A 20121220; CN 201380065551 A 20131031; EP 13785362 A 20131031; EP 2013003286 W 20131031; US 201314654419 A 20131031