

Title (en)

SYSTEM FOR DETERMINING AN ABSOLUTE TILT ANGLE IN RELATION TO THE HORIZONTAL

Title (de)

ANORDNUNG ZUR BESTIMMUNG EINES ABSOLUTEN NEIGUNGSWINKELS GEGENÜBER DER HORIZONTAL

Title (fr)

SYSTEME SERVANT A DETERMINER UN ANGLE D'INCLINAISON ABSOLU PAR RAPPORT A L'HORIZONTALE

Publication

EP 1929241 A1 20080611 (DE)

Application

EP 06806875 A 20060928

Priority

- EP 2006066853 W 20060928
- DE 102005047021 A 20050930

Abstract (en)

[origin: WO2007036556A1] The invention relates to a system for determining an absolute tilt angle (a) in relation to the horizontal, especially for use in a motor vehicle (1). Said system comprises at least one sensor element having a main axis of sensitivity (H1, H2), the at least one sensor element being arranged in such a manner that its main axis of sensitivity (H1, H2) lies in the plane of the tilt angle to be detected (plane of tilt) and the at least one sensor element produces a sensor signal depending on the tilt angle (a) in relation to the horizontal (2). The sensor signal produced by the sensor element is a measured acceleration ($A_{1,m}$, $A_{2,m}$) of the system. The system further comprises a device (14) for detecting an acceleration component ($a_{y,dyn}$) of the measured acceleration ($A_{1,m}$, $A_{2,m}$) and a processing unit (16) to which the measured acceleration ($A_{1,m}$, $A_{2,m}$) and the acceleration component ($a_{y,dyn}$) are supplied in order to determine an acceleration component-corrected acceleration (A_1 , A_2) from which the absolute tilt angle (a) of the system in relation to the horizontal can be determined.

IPC 8 full level

G01C 9/00 (2006.01); **B60W 40/10** (2012.01); **B60W 30/02** (2012.01); **B60W 40/06** (2012.01)

CPC (source: EP US)

B60R 21/0133 (2014.12 - EP US); **B60R 21/0134** (2013.01 - US); **B60W 30/04** (2013.01 - EP US); **B60W 40/109** (2013.01 - EP US); **G01C 9/00** (2013.01 - EP US); **B60G 2400/0511** (2013.01 - EP US); **B60G 2800/012** (2013.01 - EP US); **B60G 2800/0194** (2013.01 - EP US); **B60G 2800/702** (2013.01 - EP US); **B60R 2021/0018** (2013.01 - EP US); **B60R 2021/01306** (2013.01 - EP US); **B60R 2021/01327** (2013.01 - EP US); **B60W 30/02** (2013.01 - EP US); **B60W 40/072** (2013.01 - EP US); **B60W 40/076** (2013.01 - EP US); **B60W 2510/20** (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 2540/18** (2013.01 - EP); **B60W 2552/15** (2020.02 - EP US); **B60W 2552/20** (2020.02 - EP US); **B60W 2552/30** (2020.02 - EP); **B60W 2720/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2007036556A1

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

WO 2007036556 A1 20070405; DE 102005047021 B3 20070510; EP 1929241 A1 20080611; JP 2009510424 A 20090312; US 2009025998 A1 20090129

DOCDB simple family (application)

EP 2006066853 W 20060928; DE 102005047021 A 20050930; EP 06806875 A 20060928; JP 2008532785 A 20060928; US 8829106 A 20060928