

Title (en)

METHOD AND ARRANGEMENT FOR ESTIMATING HEIGHT OF CENTER OF GRAVITY FOR A TRAILER

Title (de)

VERFAHREN UND ANORDNUNG ZUR EINSCHÄTZUNG HÖHE DES SCHWERPUNKTS FÜR EINEN ANHÄNGER

Title (fr)

PROCÉDÉ ET AGENCEMENT VISANT À ESTIMER LA HAUTEUR DU CENTRE DE GRAVITÉ POUR UNE REMORQUE

Publication

EP 2828633 A4 20150812 (EN)

Application

EP 13765165 A 20130315

Priority

- SE 1200184 A 20120322
- SE 1250609 A 20120612
- SE 2013050266 W 20130315

Abstract (en)

[origin: WO2013141787A1] A method in connection with an arrangement for a vehicle, comprising a trailer coupled to a tractor, for estimating the height of the center of gravity HCG for the trailer, wherein the tractor comprises a front wheel axle and a rear wheel axle, wherein at least the rear wheel axle is resiliently suspended by a wheel axle suspension system and the trailer comprises at least one wheel axle and is coupled to the tractor via a fifth wheel, and wherein the arrangement comprises a calculating unit (2) adapted to receive the values related to the acceleration a_i in the longitudinal direction of the vehicle and to the axle load N_2 pertaining to the rear wheel axle of the tractor. The method comprises the steps for - determining the associated values for the axle load N_2 for the rear axle of the tractor and the acceleration a_i of the vehicle, for a number of different acceleration values, - determining a parameter j related to a relation between the said determined associated values for the axle load N_2 and the acceleration a_i - estimating the height of the center of gravity HCG for the trailer via calculations performed in accordance with a predetermined algorithm in which said parameter j is included.

IPC 8 full level

G01M 1/12 (2006.01); **B62D 37/00** (2006.01)

CPC (source: EP SE)

B62D 37/00 (2013.01 - SE); **G01M 1/12** (2013.01 - EP); **G01M 1/122** (2013.01 - SE); **G01M 17/007** (2013.01 - EP)

Citation (search report)

- [I] WO 2004074804 A1 20040902 - SCANIA CV ABP [SE], et al
- See references of WO 2013141787A1

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

DOCDB simple family (publication)

WO 2013141787 A1 20130926; EP 2828633 A1 20150128; EP 2828633 A4 20150812; SE 1250609 A1 20130923; SE 536560 C2 20140218

DOCDB simple family (application)

SE 2013050266 W 20130315; EP 13765165 A 20130315; SE 1250609 A 20120612