

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 A1 20150128 (EN)

Application

EP 13765165 A 20130315

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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

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CPC (source: EP SE)

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