

Title (en)

METHOD OF STABILIZATION BY ORIENTATION OF A CONVOY OF VEHICLES

Title (de)

VERFAHREN ZUR STABILISIERUNG DER AUSRICHTUNG EINER FAHRZEUGKOLONNE

Title (fr)

PROCÉDÉ DE STABILISATION PAR ORIENTATION D'UN CONVOI DE VEHICULES

Publication

EP 3504108 A1 20190703 (FR)

Application

EP 17737843 A 20170718

Priority

- FR 1657959 A 20160826
- EP 2017068122 W 20170718

Abstract (en)

[origin: WO2018036723A1] The invention relates to a method for stabilizing a convoy of vehicles (11, 12) linked pairwise one behind the other, comprising a lead vehicle (11) and at least one second vehicle (12) comprising a front axle assembly (14) with two wheels (17, 18) mobile in rotation about a front axis, a rear axle assembly (15) with two wheels (19, 20) mobile in rotation about a rear axis, the front axis of a second vehicle (12) coinciding with the rear axis of the vehicle (11, 12) which precedes it, an articulation (21) configured to render the rear axle assembly (15) mobile in rotation about a vertical axis substantially perpendicular to the reference plane with respect to the front axle assembly (14), a sensor intended to estimate an orientation of the second vehicle (12), a computer, the method comprising the following steps: estimation of the position and the orientation of the vehicles (11, 12), determination of the disparity between the actual trajectory and the reference trajectory, calculation of a control vector to be applied to the two wheels (17, 18) of the front axle assembly (14), application of the first control vector to the two wheels (17, 18) of the front axle assembly (14) of each second vehicle (12).

IPC 8 full level

B62D 12/02 (2006.01); **B62D 47/00** (2006.01)

CPC (source: EP US)

B62D 12/02 (2013.01 - EP US); **B62D 47/006** (2013.01 - EP US); **B60D 1/481** (2013.01 - US)

Citation (search report)

See references of WO 2018036723A1

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)

WO 2018036723 A1 20180301; EP 3504108 A1 20190703; FR 3055284 A1 20180302; FR 3055284 B1 20180817; US 2021354753 A1 20211118

DOCDB simple family (application)

EP 2017068122 W 20170718; EP 17737843 A 20170718; FR 1657959 A 20160826; US 201716325708 A 20170718