

Title (en)

METHOD FOR CONTROLLING THE STEERING RATIO OF A VEHICLE PROVIDED WITH WHEELS BASED ON THE MOVING DIRECTION OF THE VEHICLE AND A SYSTEM THEREOF

Title (de)

VERFAHREN ZUR STEUERUNG DES LENKVERHÄLTNISSES EINES FAHRZEUGES MIT RÄDERN AUF DER BASIS DER BEWEGUNGSRICHTUNG DES FAHRZEUGS UND SYSTEM DAFÜR

Title (fr)

PROCÉDÉ POUR COMMANDER LE RAPPORT DE DIRECTION D'UN VÉHICULE COMPORTANT DES ROUES SUR LA BASE DE LA DIRECTION DE DÉPLACEMENT DU VÉHICULE, ET SYSTÈME POUR CELUI-CI

Publication

EP 3829957 A1 20210609 (EN)

Application

EP 19742373 A 20190722

Priority

- IT 201800007743 A 20180801
- EP 2019069651 W 20190722

Abstract (en)

[origin: WO2020025378A1] Method for controlling the steering ratio of a vehicle provided with wheels comprising the steps of: detecting the movement of a steering wheel or handlebars actuated by the driver to determine a steering request signal and actuating the movement of the wheels based on the steering request signal and based on a steering ratio that is function of the speed of the vehicle. According to the method the following steps are provided: detecting if the vehicle is configured for moving in a forward or a backward direction; in case of forward direction, automatically selecting a forward steering ratio profile linking the steering ratio with the speed of the vehicle and actuating the turn of wheels based on the steering ratio determined by means of the forward steering ratio profile; in case of backward direction, automatically selecting a backward steering ratio profile linking the steering ratio with the speed of the vehicle and actuating the turn of wheels based on the steering ratio determined by means of backward steering ratio profile. The forward steering ratio profile is independent from the backward steering ratio profile. Both profiles are customizable according to operator's request and within specified limits.

IPC 8 full level

B62D 5/00 (2006.01); **B62D 6/00** (2006.01); **B62D 6/02** (2006.01)

CPC (source: EP)

B62D 5/008 (2013.01); **B62D 6/007** (2013.01); **B62D 6/02** (2013.01)

Citation (search report)

See references of WO 2020025378A1

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 2020025378 A1 20200206; EP 3829957 A1 20210609; IT 201800007743 A1 20200201

DOCDB simple family (application)

EP 2019069651 W 20190722; EP 19742373 A 20190722; IT 201800007743 A 20180801