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(54) **Title:** ADHESION COEFFICIENT DETERMINATION METHOD AND APPARATUS, AND VEHICLE, MEDIUM AND PROGRAM PRODUCT

(54) 发明名称: 附着系数的确定方法、装置、车辆、介质及程序产品

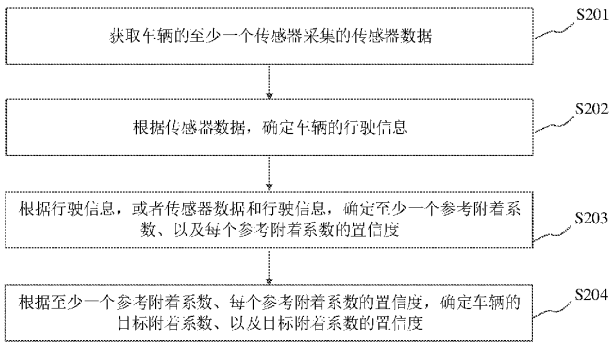

图 2a

S201 Acquire sensor data collected by at least one sensor of a vehicle
S202 On the basis of the sensor data, determine travelling information of the vehicle
S203 On the basis of the travelling information, or the sensor data and the travelling information, determine at least one reference adhesion coefficient and the confidence level of each reference adhesion coefficient
S204 On the basis of the at least one reference adhesion coefficient and the confidence level of each reference adhesion coefficient, determine a target adhesion coefficient of the vehicle and the confidence level of the target adhesion coefficient

(57) **Abstract:** Disclosed herein are an adhesion coefficient determination method and apparatus, and a vehicle, a medium and a program product. The method comprises: acquiring sensor data collected by at least one sensor of a vehicle; on the basis of the sensor data, determining travelling information of the vehicle, wherein the travelling information comprises at least one of the following: a slip rate, longitudinal stiffness, a tire longitudinal force, a tire lateral force, a tire vertical load, a front-axle lateral force and a rack force; on the basis of the travelling information, or the sensor data and the travelling information, determining at least one reference adhesion coefficient and a confidence level of each reference adhesion coefficient, wherein the at least one reference adhesion coefficient

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本国际公布:
— 包括国际检索报告(条约第21条(3))。

comprises at least one of the following: a steady-state adhesion coefficient, a dynamic adhesion coefficient, a longitudinal adhesion coefficient and a lateral adhesion coefficient; and on the basis of the at least one reference adhesion coefficient and the confidence level of each reference adhesion coefficient, determining a target adhesion coefficient of the vehicle and a confidence level of the target adhesion coefficient. The method in the embodiments of the present application improves the accuracy of adhesion coefficient determination.

(57) 摘要: 本文公布附着系数的确定方法、装置、车辆、介质及程序产品。该方法中，获取车辆的至少一个传感器采集的传感器数据；根据传感器数据，确定车辆的行驶信息，行驶信息包括如下至少一种：滑移率、纵向刚度、轮胎纵向力、轮胎侧向力、轮胎垂直载荷、前轴侧向力和齿条力；根据行驶信息，或者传感器数据和行驶信息，确定至少一个参考附着系数、以及每个参考附着系数的置信度；至少一个参考附着系数包括如下至少一种：稳态附着系数、动态附着系数、纵向附着系数和横向附着系数；根据至少一个参考附着系数、每个参考附着系数的置信度，确定车辆的目标附着系数、以及目标附着系数的置信度。本申请实施例的方法，提高了确定附着系数的准确率。