

Title (en)

METHOD AND DEVICE FOR AUTOMATICALLY CONTROLLING THE LONGITUDINAL DYNAMICS OF A VEHICLE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUTOMATISCHEN REGELUNG DER LÄNGSDYNAMIK EINES FAHRZEUGS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE RÉGLAGE AUTOMATIQUE DE LA DYNAMIQUE LONGITUDINALE D'UN VÉHICULE

Publication

EP 3727976 A1 20201028 (DE)

Application

EP 18796432 A 20181031

Priority

- DE 102017223480 A 20171220
- EP 2018079850 W 20181031

Abstract (en)

[origin: WO2019120727A1] The invention relates to a method and to a device for automatically controlling the longitudinal dynamics of a vehicle (2), which has sensor equipment (3), by means of which vehicles in front (7, 8) can be detected and, if vehicles in front (7, 8) are detected, the velocity of the vehicle itself (V0) is reduced, wherein a means for detecting a traffic jam (3) detects a traffic jam and emits a signal and, if a traffic jam (7, 8) is detected ahead, the vehicle (2) is decelerated until reaching a predetermined distance (d1) behind the end of the traffic jam (7, 8). Upon reaching the predetermined distance (d1) to the traffic jam (7, 8), the vehicle (2), the longitudinal dynamics of which are automatically controlled, can close the remaining, predetermined distance (d1) to the traffic jam end (7, 8) at a low differential velocity compared to the velocity of the traffic jam end (V1). By means of an additional rear sensor (5), which detects following vehicles (9), the controlled vehicle (2) first catches up to the traffic jam end (7, 8) when a following vehicle (9) has been detected.

IPC 8 full level

B60W 30/16 (2020.01); **B60W 30/14** (2006.01)

CPC (source: EP KR US)

B60W 30/08 (2013.01 - KR); **B60W 30/143** (2013.01 - EP KR); **B60W 30/146** (2013.01 - US); **B60W 30/16** (2013.01 - EP KR); **B60W 30/162** (2013.01 - US); **B60W 30/17** (2013.01 - US); **B60W 40/04** (2013.01 - KR); **B60W 40/072** (2013.01 - US); **B60W 60/0015** (2020.02 - US); **G08G 1/163** (2013.01 - EP KR US); **G08G 1/166** (2013.01 - EP KR US); **B60W 2420/403** (2013.01 - EP KR US); **B60W 2420/408** (2024.01 - EP KR US); **B60W 2420/54** (2013.01 - EP KR US); **B60W 2520/10** (2013.01 - EP KR); **B60W 2552/05** (2020.02 - EP KR US); **B60W 2552/30** (2020.02 - EP KR); **B60W 2554/406** (2020.02 - US); **B60W 2554/802** (2020.02 - US); **B60W 2554/804** (2020.02 - EP KR); **B60W 2555/20** (2020.02 - EP KR US); **B60W 2556/50** (2020.02 - EP KR); **B60W 2556/65** (2020.02 - EP KR); **B60W 2720/10** (2013.01 - KR)

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)

DE 102017223480 A1 20190627; CN 111491843 A 20200804; CN 111491843 B 20241011; EP 3727976 A1 20201028; JP 2021507849 A 20210225; JP 7144518 B2 20220929; KR 102473879 B1 20221207; KR 20200096827 A 20200813; US 11505210 B2 20221122; US 2020361486 A1 20201119; WO 2019120727 A1 20190627

DOCDB simple family (application)

DE 102017223480 A 20171220; CN 201880082220 A 20181031; EP 18796432 A 20181031; EP 2018079850 W 20181031; JP 2020534530 A 20181031; KR 20207020442 A 20181031; US 201816763546 A 20181031