

Title (en)

VEHICLE AXLE HAVING A CENTRALLY ARRANGED DRIVE UNIT

Title (de)

FAHRZEUGACHSE MIT EINER ZENTRAL ANGEORDNETEN ANTRIEBSEINHEIT

Title (fr)

ESSIEU DE VÉHICULE DOTÉ D'UNE UNITÉ D'ENTRAÎNEMENT MONTÉE DE MANIÈRE CENTRALE

Publication

**EP 3672816 A1 20200701 (DE)**

Application

**EP 18742765 A 20180716**

Priority

- DE 102017214640 A 20170822
- EP 2018069185 W 20180716

Abstract (en)

[origin: WO2019037946A1] The invention relates to a vehicle axle (24) having a centrally arranged drive unit (22a, 22b) and a wheel suspension (1) which comprises a wheel carrier (2) for receiving a wheel (3), a lower wheel-guiding control arm (4) for the articulated connection of the wheel carrier (2) to a structure (6), a camber link (7) that can connect the wheel carrier (2) to the structure (6), and a steering means (8, 23) for steering the wheel (3), wherein the wheel carrier (2) is directly connected to the wheel-guiding control arm (4) in a first connection region (20) and is indirectly connected to the wheel-guiding control arm in a second connection region (21) via an integral controller (5), so that the wheel carrier (2) can pivot about a steering axis in relation to the wheel-guiding control arm (4). The wheel-guiding control arm (4) can be connected to the structure (6) in a front region (13) and a rear region (14) and has an axis of rotation (15) that extends obliquely with respect to the longitudinal axis (x) of the vehicle, wherein all connection regions (13, 14) of the wheel-guiding control arm (4) are positioned outside the centrally arranged drive unit (22) with respect to the transverse direction (y) of the vehicle.

IPC 8 full level

**B60G 3/20** (2006.01); **B60G 7/00** (2006.01); **B60G 13/00** (2006.01)

CPC (source: EP US)

**B60G 3/20** (2013.01 - EP US); **B60G 7/006** (2013.01 - EP US); **B60G 7/008** (2013.01 - EP US); **B60G 13/006** (2013.01 - EP US); **B60G 2200/18** (2013.01 - EP); **B60G 2200/184** (2013.01 - EP US); **B60G 2200/422** (2013.01 - EP US); **B60G 2200/44** (2013.01 - EP US); **B60G 2202/152** (2013.01 - EP US); **B60G 2204/129** (2013.01 - EP US); **B60G 2204/422** (2013.01 - EP); **B60G 2204/4222** (2013.01 - EP US); **B60G 2206/011** (2013.01 - EP US); **B60G 2206/121** (2013.01 - EP US); **B60G 2206/50** (2013.01 - EP US); **B60G 2300/50** (2013.01 - EP US); **B60K 7/0007** (2013.01 - US)

Citation (search report)

See references of WO 2019037946A1

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 2019037946 A1 20190228**; CN 110997356 A 20200410; CN 110997356 B 20230502; DE 102017214640 A1 20190228; EP 3672816 A1 20200701; US 11167609 B2 20211109; US 2020290417 A1 20200917

DOCDB simple family (application)

**EP 2018069185 W 20180716**; CN 201880054136 A 20180716; DE 102017214640 A 20170822; EP 18742765 A 20180716; US 201816640099 A 20180716