

Title (en)

WHEEL SUSPENSION DEVICE WITH WHEEL BEARING SUPPORT CONNECTED THERETO IN A STEERABLE MANNER AND WITH AN INTEGRATED WHEEL DRIVE MOTOR

Title (de)

RADAUFHÄNGUNGSEINRICHTUNG MIT DARIN LENKBAR ANGEBUNDENEM RADLAGERTRÄGER UND INTEGRIERTEM RADANTRIEBSMOTOR

Title (fr)

DISPOSITIF DE SUSPENSION DE ROUE COMPORTANT UN SUPPORT DE PALIER DE ROUE RELIÉ À L'INTÉRIEUR DU DISPOSITIF DE MANIÈRE À POUVOIR ÊTRE DIRIGÉ ET UN MOTEUR D'ENTRAÎNEMENT DE ROUE INTÉGRÉ

Publication

EP 2758259 A1 20140730 (DE)

Application

EP 11760776 A 20110922

Priority

EP 2011066503 W 20110922

Abstract (en)

[origin: WO2013041141A1] The invention relates to a wheel suspension device comprising a wheel bearing support and a control arm element which can be pivoted about an inner hinge point and which is connected to the wheel bearing support via an outer hinge point such that the wheel bearing support can be moved in a vertical direction and can be pivoted about a substantially vertical steering axis in order to set required angles of lock. The wheel suspension device also comprises a wheel bearing device which is received in the wheel bearing support, a wheel hub which is mounted via the wheel bearing device, a wheel drive motor for generating a drive torque, and a driveshaft for transmitting the drive torque from the wheel drive motor into the region of the wheel bearing support. According to the invention, the wheel drive motor is coupled to the control arm element in a pivotal manner via a hinge device, and said coupling is produced such that the wheel drive motor can be pivoted about a substantially vertical motor pivot axis which extends in an intermediate region between the outer hinge point and the inner hinge point of the control arm element.

IPC 8 full level

B60G 3/06 (2006.01); **B60G 3/20** (2006.01); **B60K 7/00** (2006.01); **B60K 17/04** (2006.01); **B60K 17/30** (2006.01)

CPC (source: EP)

B60G 3/06 (2013.01); **B60G 3/20** (2013.01); **B60K 7/0007** (2013.01); **B60G 2200/142** (2013.01); **B60G 2200/144** (2013.01); **B60G 2200/422** (2013.01); **B60G 2200/44** (2013.01); **B60G 2204/18** (2013.01); **B60G 2204/30** (2013.01); **B60G 2204/4191** (2013.01); **B60G 2206/50** (2013.01); **B60G 2300/13** (2013.01); **B60G 2300/50** (2013.01); **B60K 17/046** (2013.01); **B60K 17/30** (2013.01); **B60K 2007/0053** (2013.01); **B60K 2007/0092** (2013.01)

Citation (search report)

See references of WO 2013041141A1

Cited by

US11633995B2; WO2020187464A1

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

DOCDB simple family (publication)

WO 2013041141 A1 20130328; CN 103826883 A 20140528; CN 103826883 B 20160511; EP 2758259 A1 20140730

DOCDB simple family (application)

EP 2011066503 W 20110922; CN 201180073654 A 20110922; EP 11760776 A 20110922