

Title (en)

WHEEL ASSEMBLY COMPRISING A WHEEL HUB MOTOR

Title (de)

RADANORDNUNG MIT EINEM RADNABENMOTOR

Title (fr)

TRAIN DE ROUES COMPRENANT UN MOTEUR DE MOYEU DE ROUE

Publication

EP 3811502 A1 20210428 (EN)

Application

EP 19723418 A 20190510

Priority

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Abstract (en)

[origin: WO2019242934A1] The invention is directed to a wheel assembly (1) for an electric vehicle comprising a wheel hub motor with a stator (100) that has a stator housing (120) comprising a stator housing widened section (121) having an in general cylindrical shape and extending in an axial direction (x). The stator housing (120) is at an in axial direction (x) proximal end (122) merging into a stator axle (110) arranged coaxially to and extending away from the stator housing (120). The stator axle (110) has a smaller diameter (Ds) than the stator housing widened section (121). The wheel assembly (1) further a rotor (200) comprising a rotor housing (220) that is arranged coaxially to and rotatable around the stator (100). The rotor housing (220) has a rotor housing widened section (221) encompassing at least a portion of the stator housing widened section (121) at a certain distance. The rotor housing widened section (221) at an in axial direction (x) proximal end (122) merges into a hollow-cylindrical rotor axle (210) having a smaller diameter than the rotor housing widened section (221) According to the invention the rotor (200) is supported with respect to the stator axle (110) by at least one bearing (900, 910).

IPC 8 full level

H02K 7/14 (2006.01); **B60K 7/00** (2006.01); **H02K 7/00** (2006.01); **H02K 7/10** (2006.01); **H02K 9/19** (2006.01); **H02K 11/33** (2016.01); **H02K 21/22** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2019242934A1

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