Title (en)

ELECTRIC MACHINE HAVING AN AXIAL PRESTRESS BETWEEN A ROLLING BEARING AND A HOUSING PART, AND METHOD FOR OPERATING SUCH AN ELECTRIC MACHINE

Title (de)

ELEKTRISCHE MASCHINE MIT EINER AXIALEN VORSPANNUNG ZWISCHEN EINEM WÄLZLAGER UND EINEM GEHÄUSETEIL, SOWIE VERFAHREN ZUM BETREIBEN EINER SOLCHEN ELEKTRISCHEN MASCHINE

Title (fr)

MOTEUR ÉLECTRIQUE PRÉSENTANT UNE PRÉCONTRAINTE AXIALE ENTRE UN PALIER À ROULEMENT ET UNE PARTIE DE CARTER, AINSI QU'UN PROCÉDÉ POUR FAIRE FONCTIONNER UN TEL MOTEUR ÉLECTRIQUE

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Abstract (en)

[origin: WO2013091954A2] The invention relates to an electric machine (10), in particular a transmission-drive unit (11) for driving functional elements in a motor vehicle, and to a method for operating such an electric machine (10), comprising a rotor shaft (12) that extends in the axial direction (5) and is rotatably mounted in a housing part (16) of a housing (17) by means of a rolling bearing (22, 20), wherein at least two axial spring elements (32) are axially arranged behind one another, wherein the axial spring elements (32) are arranged in a row in the axial direction (5) with respect to the force action thereof, are axially supported on the housing part (16), and exert an axial prestress between the housing part (16) and the rolling bearing (20, 22).

IPC 8 full level

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