

Title (en)

GEAR MOTOR, ASSOCIATED WIPER SYSTEM AND ASSOCIATED CONTROL METHOD

Title (de)

GETRIEBEMOTOR, ZUGEHÖRIGES WISCHERSYSTEM UND ZUGEHÖRIGES STEUERUNGSVERFAHREN

Title (fr)

MOTO-REDUCTEUR, SYSTEME D'ESSUYAGE ET PROCEDE DE COMMANDE ASSOCIES

Publication

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Application

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Priority

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- EP 2017078360 W 20171106

Abstract (en)

[origin: WO2018091302A1] The present invention relates to a gear motor (101), in particular for a wiper system, comprising: - a brushless DC electric motor (103) including: - a rotor (15); - a stator (13) having coils (17) for electromagnetically exciting the rotor (15); - a device (25) for determining the angular position of the rotor (15) with respect to the stator (13); - a control unit (21) configured to generate control signals for supplying power to the electromagnetic excitation coils (17) according to the angular position of the rotor (15) determined by the device (25) for determining the angular position of the rotor (15); - a reduction gear mechanism (104) linked, on one side, to the rotor (15) of the electric motor (103) and, on the other side, to an output shaft (109) that is intended to be linked to an external mechanism, in particular a wiper system, the reduction gear mechanism (104) having a predefined reduction ratio, said device (25) for determining the angular position of the rotor (15) comprises at least one Hall effect sensor (27, 27a, 27b) associated with a control magnet (29, 29a, 29b) that rotates with the rotor (15) and the gear motor (101) also comprises a processing unit (26) connected to the device (25) for determining the angular position of the rotor (15) and configured to determine the angular position of the output shaft (109) on the basis of the angular position of the rotor (15) determined by taking the predefined reduction ratio of the reduction gear mechanism (104) into account.

IPC 8 full level

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Citation (search report)

See references of WO 2018091302A1

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