

Title (en)

ELECTRIC DRIVE UNIT FOR A HAND-HELD POWER TOOL

Title (de)

ELEKTRISCHE ANTRIEBSEINHEIT FÜR EINE HANDWERKZEUGMASCHINE

Title (fr)

UNITÉ D'ENTRAÎNEMENT ÉLECTRIQUE POUR UN OUTIL MOTORISÉ À MAIN

Publication

**EP 4348823 A1 20240410 (DE)**

Application

**EP 22732408 A 20220523**

Priority

- EP 21176289 A 20210527
- EP 2022063846 W 20220523

Abstract (en)

[origin: WO2022248383A1] Electric drive unit having a brushless DC motor and having a switching bridge for the sensor-controlled commutation of the DC motor by means of at least one Hall sensor included in the DC motor, wherein the Hall sensor is connected to the switching bridge and is configured to capture an angle of rotation of the DC motor, and wherein the drive unit also has a control unit which is connected to the switching bridge and can be used to predefine a target speed for the DC motor, wherein the control unit is configured to process Hall interrupts which are dependent on the angle of rotation and are caused by the at least one Hall sensor and to determine an actual speed of the DC motor on the basis of time interrupts which are independent of the angle of rotation and the Hall interrupts which are dependent on the angle of rotation.

IPC 8 full level

**H02P 6/17** (2016.01); **B23B 51/00** (2006.01); **H02P 23/00** (2016.01)

CPC (source: EP US)

**H02P 6/17** (2016.02 - EP US); **H02P 23/0077** (2013.01 - EP); **H02P 23/14** (2013.01 - US); **B25F 5/00** (2013.01 - US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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WO 2022248383 A1 20221201

DOCDB simple family (application)

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