

Title (en)

DEVICE FOR DETERMINING THE ANGULAR POSITION OF A ROTOR OF A ROTATING ELECTRIC MACHINE

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DER WINKELAGE EINES ROTORS EINER ROTIERENDEN ELEKTRISCHEN MASCHINE

Title (fr)

DISPOSITIF DE DÉTERMINATION DE LA POSITION ANGULAIRE D'UN ROTOR DE MACHINE ÉLECTRIQUE TOURNANTE

Publication

EP 4229746 A1 20230823 (FR)

Application

EP 21786912 A 20211004

Priority

- FR 2010685 A 20201019
- EP 2021077318 W 20211004

Abstract (en)

[origin: WO2022084017A1] Device (100) for determining the angular position of a rotor (4) of a rotating electric machine on the basis of signals delivered by a plurality of position sensors (20), this device comprising: - a circuit (103) producing a control loop to estimate the position of the rotor and delivering, as output, a signal representative of the position of the rotor, and - at least one dynamic circuit (102) for processing an odd order harmonic of a signal resulting from the signals provided by the position sensors (20).

IPC 8 full level

H02P 9/00 (2006.01); **H02P 6/08** (2016.01)

CPC (source: EP US)

G01D 3/08 (2013.01 - EP); **H02P 6/08** (2013.01 - EP); **H02P 9/009** (2013.01 - EP US)

Citation (search report)

See references of WO 2022084017A1

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

FR 3115362 A1 20220422; **FR 3115362 B1 20221230**; CN 116391320 A 20230704; EP 4229746 A1 20230823; US 2023336100 A1 20231019; WO 2022084017 A1 20220428

DOCDB simple family (application)

FR 2010685 A 20201019; CN 202180071514 A 20211004; EP 2021077318 W 20211004; EP 21786912 A 20211004; US 202118245442 A 20211004