

Title (en)
EC MOTOR HAVING AN ANNULAR SENSOR MAGNET

Title (de)
EC-MOTOR MIT EINEM RINGFÖRMIGEN SENSORMAGNETEN

Title (fr)
MOTEUR À COMMUTATION ÉLECTRONIQUE COMPRENANT UN AIMANT DE DÉTECTION ANNULAIRE

Publication
EP 3596812 A1 20200122 (DE)

Application
EP 18708661 A 20180301

Priority
• DE 102017204415 A 20170316
• EP 2018055044 W 20180301

Abstract (en)
[origin: WO2018166806A1] In an electronically commutated motor comprising a permanently excited rotor, which has a rotor shaft (122) and which is coaxially surrounded by a stator with at least one stator winding, wherein the rotor shaft (122) defines an axis of rotation (130) of the permanently excited rotor and is rotatably mounted at at least two bearing points, which are spaced apart from one another in the longitudinal direction of the axis of rotation (130), a ring magnet (150) is arranged on the rotor shaft (122) with a magnetisation (152) which designed to be close to the surface in the region of an end side (154) of the ring magnet (150) oriented perpendicular to the axis of rotation (130), and which is designed for radially oriented and continuous detection of the rotor position by means of at least one associated magnetic field sensor (200).

IPC 8 full level
H02K 29/08 (2006.01); **H02K 11/215** (2016.01)

CPC (source: EP)
H02K 11/215 (2016.01); **H02K 29/08** (2013.01); **H02K 2213/03** (2013.01)

Citation (examination)
• EP 3300233 A1 20180328 - VALEO SYSTEMES DESSUYAGE [FR]
• DE 3931257 A1 19900405 - MITSUBISHI ELECTRIC CORP [JP]
• See also references of WO 2018166806A1

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

DOCDB simple family (publication)
WO 2018166806 A1 20180920; CN 110383652 A 20191025; DE 102017204415 A1 20180920; EP 3596812 A1 20200122

DOCDB simple family (application)
EP 2018055044 W 20180301; CN 201880018174 A 20180301; DE 102017204415 A 20170316; EP 18708661 A 20180301