

Title (en)

INTERIOR ROTOR FOR A ROTARY ELECTRICAL MACHINE AND METHOD OF ASSEMBLING IT

Title (de)

INNENROTOR FÜR EINE ELEKTRISCHE DREHMASCHINE UND VERFAHREN ZU SEINEM ZUSAMMENBAU

Title (fr)

ROTOR INTERIEUR POUR MACHINE ELECTRIQUE TOURNANTE ET SON PROCEDE D'ASSEMBLAGE

Publication

**EP 2316157 A2 20110504 (FR)**

Application

**EP 09777486 A 20090728**

Priority

- EP 2009005455 W 20090728
- FR 0855633 A 20080820

Abstract (en)

[origin: WO2010020334A2] The invention relates in particular to an embedded-magnets interior rotor (1) for a rotary electrical machine, the rotor comprising: a shaft (2), a plurality of pole pieces (30) made of a magnetic material, surrounding the shaft, the pole pieces delimiting houses (40) between them, a first lateral flange (5) and a second lateral flange (5') axially on each side of the pole pieces along the shaft (2), the shaft passing through each lateral flange via a central opening in each lateral flange, at least one through bolt (6) per pole piece, the through bolt clamping each pole piece between the lateral flanges, permanent magnets (4) installed in the said housings, the said rotor being characterized in that the shaft comprises, for the first lateral flange (5), an interior shoulder (22) intended to constitute an axial end stop against which the first flange is held axially by an external ring (26) secured to the shaft.

IPC 8 full level

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**H02K 1/2773** (2013.01 - EP US); **H02K 15/03** (2013.01 - EP US); **Y10T 29/49012** (2015.01 - US)

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