

Title (en)
PERMANENT MAGNET SYNCHRONOUS ELECTRIC MOTOR

Title (de)
ELEKTRISCHER PERMANENTMAGNET-SYNCHRONMOTOR

Title (fr)
MOTEUR ÉLECTRIQUE SYNCHRONE À AIMANTS PERMANENTS

Publication
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Application
EP 17792075 A 20171101

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Abstract (en)
[origin: WO2018103969A1] The present invention relates to a permanent magnet synchronous electric motor (1) comprising a stator (2); a cylindrical rotor (3) that is composed of stacked magnetic steel laminations and that has annular and planar front and rear surfaces; a shaft (5) that is snap-fitted into the shaft hole (4) arranged at the center of the rotor (3); a plurality of magnet coupling holes (7) that are disposed around the shaft hole (4), that extend towards the interior of the rotor (3) in the axial direction from the annular surface of the rotor (3) and wherein magnets (6) providing synchronous operation are disposed; and a plurality of slots (11) that extend in the rotor (3) all around and in the axial direction in the area close to the cylindrical side surface of the rotor (3) and wherein aluminum is injected in the injection mold during the production of the rotor (3).

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H02K 1/276 (2013.01); **H02K 21/46** (2013.01)

Citation (search report)
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