

Title (en)
INTERIOR PERMANENT-MAGNET ROTOR OF A BRUSHLESS MOTOR

Title (de)
INNERER PERMANENTMAGNETROTOR EINES BÜRSTENLOSEN MOTORS

Title (fr)
ROTOR À AIMANT PERMANENT INTÉRIEUR D'UN MOTEUR SANS BALAIS

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Abstract (en)
[origin: WO2017133784A1] The present invention relates to a brushless electric motor (1) for a water conducting household appliance. The brushless electric motor (1) comprises an outer stator; a shaft (2) and an inner magnet-rotor (3) without a core. In the brushless electric motor (1) of the present invention, the inner magnet-rotor (3) includes a cylindrical permanent magnet (4) having an axial hole (5) for receiving the shaft (2) with a clearance (6), wherein the shaft (2) has a ridged surface (7) inside the axial hole (5); attachment grooves (8) formed into the upper face (9) and the lower face (10) of the cylindrical permanent magnet (4) and an overmolded plastic retainer (11) formed exclusively onto the upper face (9) and the lower face (10) and into the axial hole (5) so as to inseparably join the cylindrical permanent magnet (4) with the shaft (2) and integrally fill the attachment grooves (8) and the clearance (6).

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