

Title (en)
ELECTRIC AXIAL-FLOW LIQUID PUMP FOR MOTOR VEHICLE

Title (de)
ELEKTRISCHE KFZ-AXIAL-FLÜSSIGKEITSPUMPE

Title (fr)
POMPE À LIQUIDE AXIALE ÉLECTRIQUE POUR VÉHICULE AUTOMOBILE

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Application
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Abstract (en)
[origin: WO2017080591A1] The present invention relates to an electric motor vehicle axial-flow liquid pump (10) which is designed as an internal rotor pump. The electric motor vehicle axial-flow liquid pump (10) comprises a pump housing (12), which forms an axial intake opening (14) and an axial outlet opening (16) for admitting and discharging the liquid, and an electric motor (17) which is provided in the pump housing (12). The electric motor (17) has a motor stator (18) with at least one external stator coil (20), a can (22) which is formed radially inside the stator coils (20), and a rotor body (32) formed as an axial-flow impeller. The rotor body (32) is arranged rotatably within the can (22) and has at least one blade (36) which urges the liquid along the axis of rotation (33) of the rotor body (32) from the inlet opening (14) to the outlet opening (16). The rotor body (32) is of permanently magnetic design.

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