

Title (en)  
ELECTRIC MOTOR-VEHICLE COOLANT PUMP

Title (de)  
ELEKTRISCHE KFZ-KÜHLMITTELPUMPE

Title (fr)  
POMPE ÉLECTRIQUE À LIQUIDE DE REFROIDISSEMENT POUR VÉHICULE AUTOMOBILE

Publication  
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Application  
**EP 17768126 A 20170918**

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Abstract (en)  
[origin: WO2018095607A1] The invention relates to an electric motor-vehicle coolant pump, comprising a housing (4), which has a pump unit (8) and a motor unit (6), wherein the motor unit (6) has a motor rotor (22), which is mounted in the housing (4) by means of bearing elements (24), and has a motor stator (28), wherein the motor rotor (22) has an impeller element (9) and a drive element (20), which extends in the axial direction and which has an axis of rotation (10), wherein blade elements (12) of the pump unit (8) are arranged on the impeller element (9), wherein inlet and outlet openings (30, 33) having respective center axes (34) are provided, which allow a cooling fluid of the pump unit to flow through the motor unit (6), wherein the outlet openings (33) of the pump unit (8) are provided in the impeller element (9), wherein the outlet openings (33) are provided in the motor rotor (22), wherein, viewed in the outlet direction, the center axis (34) of each outlet opening (33) includes an angle between  $\alpha = 10^\circ$  and  $\alpha = 135^\circ$  with a projection of the axis of rotation (10) into said outlet opening (33).

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