

Title (en)

ELECTRIC COOLANT PUMP WITH HEATING ELEMENT

Title (de)

ELEKTRISCHE KÜHLMITTELPUMPE MIT HEIZELEMENT

Title (fr)

POMPE À LIQUIDE DE REFROIDISSEMENT ÉLECTRIQUE DOTÉE D'UN ÉLÉMENT CHAUFFANT

Publication

**EP 4051887 A1 20220907 (DE)**

Application

**EP 20792297 A 20200923**

Priority

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- EP 2020076574 W 20200923

Abstract (en)

[origin: WO2021083585A1] The invention relates to an electric coolant pump (1) for a coolant circuit of a motor vehicle having a pump chamber (6), the electric coolant pump (1) having a suction line (9) which leads into a suction side (10) of the pump chamber (6), an evacuation channel (11) which leads out of a discharge side (12) of the pump chamber (6), and an electric motor (4) having a control device (18), the electric coolant pump (1) further having a heating device (13) which comprises an electric heating element (14) that projects into the suction line (9) or the evacuation channel (11) and can be flushed by the coolant, the electric heating element (14) having at least two operating states, wherein the electric heating element (14) can be operated from an electrical grid (15) in a first operating state and from a vehicle electrical system (19) of the motor vehicle in a second operating state, and the control device (18) of the electric motor (4) being designed such that the electric motor (4) has at least two operating states, wherein the electric motor (4) can be operated from an electrical grid (15) in a first operating state and can be operated from the vehicle electrical system (19) in a second operating state.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2021083585A1

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