

Title (en)

COOLANT PUMP HAVING AN OPTIMIZED BEARING ASSEMBLY AND IMPROVED HEAT BALANCE

Title (de)

KÜHLMITTELPUMPE MIT OPTIMISierter LAGERANORDNUNG UND VERBESSERTEM WÄRMEHAUSHALT

Title (fr)

POMPE À LIQUIDE DE REFROIDISSEMENT POURVUE D'UN DISPOSITIF PALIER OPTIMISÉ ET À BILAN THERMIQUE AMÉLIORÉ

Publication

**EP 3755907 B1 20230719 (DE)**

Application

**EP 18808277 A 20181121**

Priority

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- EP 2018082035 W 20181121

Abstract (en)

[origin: WO2019161950A1] The invention relates to an electrical coolant pump, preferably for use as an additional water pump in a vehicle, which electrical coolant pump is characterized in that radial support of the shaft (4) is provided by means of a coolant-lubricated radial sintered plain bearing (41) having a defined porosity, which is arranged between the pump impeller (2) and the rotor (32), and a shaft seal (5) is arranged between the radial plain bearing (41) and the motor chamber (13). In the sintered plain bearing (41), in the axial direction, at least one coolant flow channel (14) having a predefined depth proceeding from the end of the sintered plain bearing (41) on the side of the pump chamber (10) is provided.

IPC 8 full level

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