

Title (en)
COOLANT PUMP WITH APPLICATION-OPTIMISED DESIGN

Title (de)
KÜHLMITTELPUMPE MIT ANWENDUNGSOPTIMISIERTEM AUFBAU

Title (fr)
POMPE DE REFROIDISSEMENT À CONCEPTION OPTIMISÉE EN FONCTION DE L'APPLICATION

Publication
EP 3676484 A1 20200708 (DE)

Application
EP 18740181 A 20180710

Priority
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• EP 2018068616 W 20180710

Abstract (en)
[origin: WO2019042638A1] The invention relates to an electric coolant pump, preferably for use as a supplementary water pump in a vehicle, characterized in that a radial mounting of the shaft (4) is provided by means of a coolant-lubricated radial sliding bearing (41), which is arranged between the pump impeller (2) and the rotor (32); a dry-running electric motor (3) with a radially inner stator (31) and a radially outer rotor (32) is accommodated in a motor chamber (13) separated from the pump chamber (10); a shaft seal (5) is arranged between the radial sliding bearing (41) and the motor chamber (13); the rotor (32) is in the shape of a bell, the inner surface of which facing the shaft seal (5) and being fixed to the shaft seal (5) so as to axially overlap with the shaft (4); and the motor chamber (13) has an opening to the atmosphere, which is closed by a liquid-tight pressure equalisation membrane (6) that is permeable to vapour.

IPC 8 full level
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Citation (search report)
See references of WO 2019042638A1

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