

Title (en)

METHOD FOR WITHDRAWING HEAT FROM COMPONENTS OF A FLUID PUMP

Title (de)

VERFAHREN ZUR ABFUHR VON WÄRME VON BAUTEILEN EINER FLÜSSIGKEITSPUMPE

Title (fr)

PROCÉDÉ D'ÉVACUATION DE LA CHALEUR DES COMPOSANTS D'UNE POMPE À LIQUIDE

Publication

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Application

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Abstract (en)

[origin: WO2009015959A1] The housing (1) of a fluid pump comprises a suction side (S) that is provided with a supply (Z) for the flowing medium and a pressure side (D) that is provided to withdraw the flowing medium. The suction side (S) and the pressure side (D) are fluidically separated from each other by an actuatable running wheel (4). According to said method, one part of the flowing medium branches off in the region of the flow cross-section (II) of the pressure side (D) and is guided through at least one channel (2) to the components (3). Said channel (2) is thermally connected to said components (3). In the region of the components (3), the flowing medium is at least partially evaporated, and the heat is withdrawn from the components (3) by means of evaporation cooling. The invention also relates to a device for carrying out said method, and to the use of said device as a cooling device for withdrawing heat from components (3) of a cool water pump in a motor vehicle.

IPC 8 full level

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