

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

**EP 2174014 A1 20100414 (DE)**

Application

**EP 08774411 A 20080627**

Priority

- EP 2008058244 W 20080627
- DE 102007036239 A 20070802

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 In the region of the components (3), the flowing medium is at least partially evaporated, and the heat is withdrawn from the components (3) by means of evaporation cooling.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

**F04D 13/06** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP KR)

**F04D 13/06** (2013.01 - KR); **F04D 13/0606** (2013.01 - EP); **F04D 13/0686** (2013.01 - EP); **F04D 29/58** (2013.01 - KR); **F04D 29/5813** (2013.01 - EP)

Citation (search report)

See references of WO 2009015959A1

Designated contracting state (EPC)

DE FR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**DE 102007036239 A1 20090205**; EP 2174014 A1 20100414; JP 2010508462 A 20100318; JP 5119256 B2 20130116; KR 101120696 B1 20120322; KR 20090075682 A 20090708; WO 2009015959 A1 20090205

DOCDB simple family (application)

**DE 102007036239 A 20070802**; EP 08774411 A 20080627; EP 2008058244 W 20080627; JP 2009533887 A 20080627; KR 20097007045 A 20080627