Title (en)

Pump housing with integrated electronics

Title (de)

Pumpengehäuse mit intergrierter Elektronik

Title (fr)

Carter de pompe avec électronique intégrée

Publication

EP 1085217 A3 20010418 (DE)

Application

EP 00113847 A 20000630

Priority

DE 19943577 A 19990913

Abstract (en)

[origin: EP1085217A2] The wet-running pump is driven by a speed-regulated electric motor and has an electronic module (7) containing control electronics and a pump housing (4) enclosing a spiral chamber (6) with a central suction port and a pressure port. The pump housing has a mounting (8) on which the electronic module is brought into thermal contact with the pump medium in the spiral chamber. An Independent claim is also included for the use of a rotary pump for circulating the coolant in a motor vehicle cooling circuit.

IPC 1-7

F04D 29/58; F04D 13/06; H02K 11/04

IPC 8 full level

F04D 13/06 (2006.01); **F04D 15/00** (2006.01); **F04D 29/58** (2006.01); F01P 5/10 (2006.01)

CPC (source: EP)

F04D 13/0606 (2013.01); **F04D 13/0686** (2013.01); **F04D 29/5813** (2013.01); F01P 5/10 (2013.01); F01P 2050/30 (2013.01)

Citation (search report)

- [X] DE 3642726 A1 19880623 - GRUNDFOS INT [DK]
- [X] US 4511312 A 19850416 - HARTWIG CARL S M [SE]
- [A] DE 4222394 C1 19931209 - GRUNDFOS A S BJERRINGBRO [DK]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14 31 December 1998 (1998-12-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 307 (M - 1143) 6 August 1991 (1991-08-06)

Cited by

DE102010054084A1; EP1398511A1; CN110168229A; CN104471252A; AT502566B1; EP1775478A3; EP1635064A1; US7648347B2; US7544049B2; WO2004105130A1; WO2004033241A1; DE102010054084B4

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19943577 A1 20010315; EP 1085217 A2 20010321; EP 1085217 A3 20010418

DOCDB simple family (application)

DE 19943577 A 19990913; EP 00113847 A 20000630