

Title (en)

Method for determining the flow rate in a pump

Title (de)

Verfahren zur Bestimmung der Durchflussmenge eines Fluids durch eine Pumpe

Title (fr)

Méthode pour déterminer le débit d'une pompe

Publication

EP 1387087 A3 20091028 (DE)

Application

EP 03009647 A 20030430

Priority

DE 10234630 A 20020729

Abstract (en)

[origin: EP1387087A2] During a pump's operation, a motor is switched off periodically by an electric/electronic drive. When switched off, it detects voltages (1-3) induced in the motor and uses the induced voltages detected by an analog-digital transformer to determine the amount of through-flow for a liquid by using a span of time for the induced voltages and by comparing this span with a reference curve. An independent claim is also included for a pump for conveying a liquid with a permanently excited synchronous motor in a micro-controller and electronic devices for controlling a motor.

IPC 8 full level

F04D 15/00 (2006.01)

CPC (source: EP)

F04D 15/0088 (2013.01)

Citation (search report)

- [Y] EP 0877463 A2 19981111 - WILO GMBH [DE]
- [Y] EP 0945973 A2 19990929 - AKO WERKE GMBH & CO [DE]
- [A] DE 3327594 A1 19850214 - ALPINE AG [DE]
- [A] GB 2077925 A 19811223 - GEN MOTORS CORP

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CN113915145A; FR2951267A1; EP2743509A1; WO2010092238A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

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DOCDB simple family (application)

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