

Title (en)

Driving unit for a centrifugal pump

Title (de)

Antriebsbaueinheit für eine Kreiselpumpe

Title (fr)

Unité moteur pour entrainer une pompe centrifuge

Publication

EP 1614903 A1 20060111 (DE)

Application

EP 04015972 A 20040707

Priority

EP 04015972 A 20040707

Abstract (en)

The drive module (4) for a circulating pump has an electric motor (5) with an electronic RPM adjuster and an electronic governor which controls the pump driven by the motor. The electronic governor is designed for at least two circulating pumps which differ in their hydraulic characteristics and is adjustable to correspond to the connected pump. The electronic governor is especially for the circulating pumps of a multi-head pump unit. Parameters for the different pumps are stored or read into the electronic governor at the manufacturers. Independent claims are also included for the following: (A) a pump unit in which the governing of the pump takes place sensor-less and exclusively through the utilization of the electric values of the drive motor; (B) a multi-head pump unit, especially a double pump, with at least two of the specified drive modules; and (C) a circulating pump for the connecting to a drive unit, with a transponder installed preferably on the outer side of the pump housing and through which hydraulic data of the pump are transmitted wire-less to a reading device installed preferably on the motor side.

IPC 8 full level

F04D 15/00 (2006.01)

CPC (source: EP)

F04D 13/14 (2013.01); **F04D 15/0066** (2013.01)

Citation (applicant)

EP 0735273 A1 19961002 - WILO GMBH [DE]

Citation (search report)

- [X] EP 0866228 A2 19980923 - GRUNDFOS AS [DK]
- [X] EP 0735273 A1 19961002 - WILO GMBH [DE]
- [X] DE 10134138 A1 20030206 - ORANIENBURGER PUMPEN VERDICHTER [DE]
- [A] DE 19702477 A1 19980730 - WILO GMBH [DE]

Cited by

EP2940309A1; DE102014006258A1; FR2919357A1; EP2778423A1; CN105121857A; EP3574218A4; CN104595675A; EP3242033A1; WO2014139784A1; US11732719B2; US11965512B2; WO2018122025A1; EP2940309B1

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