

Title (en)
VACCUM PUMP WITH A DEVICE FOR COUNTING THE REVOLUTIONS

Publication
EP 0280892 B1 19921028 (DE)

Application
EP 88101450 A 19880202

Priority
DE 8703108 U 19870228

Abstract (en)
[origin: US4822251A] A vacuum pump has a housing, a pump shaft having a terminal shaft portion, a bearing member mounted in the housing and supporting the pump shaft and a rotor affixed to the pump shaft. The housing has a housing wall forming a side chamber with the bearing member. The terminal shaft portion projects through the bearing member into the side chamber. There is further provided a device for measuring the rpm of the rotor. The device comprises an inductive sensor held in the housing wall and a ferromagnetic member mounted on the terminal shaft portion for rotation in unison therewith. The ferromagnetic member induces electric pulses in the inductive sensor at a rate proportionate to the rpm of the rotor. A non-magnetic partition separates the inductive sensor from the side chamber.

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IPC 8 full level
G01F 3/10 (2006.01); **F04B 37/16** (2006.01); **F04B 39/00** (2006.01); **F04C 28/28** (2006.01); **F04C 29/00** (2006.01); **F04D 15/00** (2006.01); **F04D 27/00** (2006.01)

CPC (source: EP US)
F04C 28/28 (2013.01 - EP US); **F04D 15/0094** (2013.01 - EP US); **F04C 2270/86** (2013.01 - EP US)

Cited by
CN1054185C; US11619224B2; CN107061286A; DE102004024554A1; DE102004024554B4; WO2011134449A3; EP2369172B1

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