

Title (en)

Oil sealed vane type rotary vacuum pump

Title (de)

Ölgedichtete Drehschiebervakuumpumpe

Title (fr)

Pompe à vide rotative à palettes étanchéifiée par de l'huile

Publication

EP 1598558 B1 20151230 (DE)

Application

EP 05008941 A 20050423

Priority

DE 102004024554 A 20040518

Abstract (en)

[origin: EP1598558A1] The pump has a pump system (5) arranged in a housing (2), where the system has a shaft (12) eccentrically arranged in a cylindrical chamber. A drive motor e.g. direct current motor, has permanent magnets (14) that are arranged on the shaft. Electrical coils (10) surround the magnets and produce a rotatable magnetic field. Control electronic (8) controls the coils and is arranged in a removable housing part of the pump.

IPC 8 full level

F04C 29/04 (2006.01); **F04C 18/344** (2006.01); **F04C 29/00** (2006.01); **H02K 1/27** (2006.01)

CPC (source: EP US)

F04C 18/3442 (2013.01 - EP US); **F04C 25/02** (2013.01 - EP); **F04C 29/0085** (2013.01 - EP US); **F04C 2270/701** (2013.01 - EP US)

Citation (examination)

- WO 03100258 A1 20031204 - LEYBOLD VAKUUM GMBH [DE], et al
- WO 9317484 A1 19930902 - MAGNET MOTOR GMBH [DE]

Cited by

NL2016728B1; CN109312736A; US10598177B2; WO2017192036A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1598558 A1 20051123; **EP 1598558 B1 20151230**; DE 102004024554 A1 20051215; DE 102004024554 B4 20180125; US 2005260082 A1 20051124

DOCDB simple family (application)

EP 05008941 A 20050423; DE 102004024554 A 20040518; US 13057405 A 20050517