

Title (en)

Magnetic rotor and rotation pump with a magnetic rotor

Title (de)

Magnetischer Rotor sowie Rotationspumpe mit einem magnetischen Rotor

Title (fr)

Rotor magnétique et pompe rotative dotée d'un rotor magnétique

Publication

**EP 2549113 B1 20181024 (DE)**

Application

**EP 12174213 A 20120628**

Priority

- EP 11174669 A 20110720
- EP 12174213 A 20120628

Abstract (en)

[origin: EP2549113A2] The rotor (1) has a permanent magnet (8) sheathed within an outer encapsulation (6) by a metal casing (7), where the rotor is encapsulated by the encapsulation. The encapsulation comprises fluoridated hydrocarbon. The permanent magnet is connected with the metal casing in a form- and/or force-fit manner. The metal casing is connected with the encapsulation in a form- and/or force-fit manner. A recess (9) is formed between the permanent magnet and the metal casing. A thermal compensation unit (10) compensates different thermal expansions of the metal casing and/or the permanent magnet. An independent claim is also included for a rotary pump.

IPC 8 full level

**F04D 13/06** (2006.01); **F04D 29/02** (2006.01); **F04D 29/048** (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP KR US)

**F04D 13/06** (2013.01 - KR); **F04D 13/064** (2013.01 - EP US); **F04D 29/026** (2013.01 - EP KR US); **F04D 29/048** (2013.01 - EP KR US); **F04D 29/2205** (2013.01 - EP KR US); **F05D 2300/13** (2013.01 - EP KR US); **F05D 2300/14** (2013.01 - EP KR US); **F05D 2300/143** (2013.01 - EP US); **F05D 2300/43** (2013.01 - EP KR US); **F05D 2300/432** (2013.01 - EP US)

Cited by

DE102017206762A1; DE102017206759A1; DE102016224070A1; EP3425204A1; DE102017214869A1; DE102017205729A1; DE102016214696A1; DE102016214700A1; WO2018099973A1; FR3011887A1; WO2020126015A1; WO2018193096A1; WO2018193095A1; WO2018029116A1; WO2018029115A1; TWI793134B; DE102016224071A1; WO2018184733A1; DE102017205729B4; US11421694B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 12174213 A 20120628**; CN 201210250374 A 20120719; JP 2012153458 A 20120709; KR 20120078105 A 20120718; TW 101125648 A 20120717; US 201213554826 A 20120720