

Title (en)

High pressure centrifugal pump housing with pressure cover

Title (de)

Hochdruck-Kreiselpumpe in einem Topfgehäuse mit einem Druckdeckel

Title (fr)

Boîtier dotée d'un couvercle pour une pompe centrifuge à haute pression

Publication

**EP 1420166 B1 20050907 (DE)**

Application

**EP 03405738 A 20031014**

Priority

- EP 03405738 A 20031014
- EP 02405971 A 20021112

Abstract (en)

[origin: EP1420166A1] High-pressure rotary pump in a pot housing comprises a pressure lid (3) with a flange (4) for screwing the pressure lid on an end-side annular sealing surface (20) of a housing (2). The flange is elastically deformed during the screwing process and the sealing surface of the housing in the region of a base zone of the flange comes into contact with a second sealing surface (40). Before the screwing process the two sealing surfaces lie on two at least approximately radially extending conical or annular surfaces enclosing a small angle which opens outward relative to a central axis (101) so that after the screwing process the two sealing surfaces are pressed together and the angle between the sealing surfaces becomes zero. Preferred Features: The housing and/or the pressure lid are made of a metallic material, especially forged steel.

IPC 1-7

**F04D 29/08**; **F04D 1/06**

IPC 8 full level

**F04D 1/06** (2006.01); **F04D 29/08** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)

**F04D 1/063** (2013.01); **F04D 29/086** (2013.01); **F04D 29/426** (2013.01)

Cited by

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