

Title (en)

Progressive cavity pump and stator for such a pump

Title (de)

Exzenterschnecken-Pumpe und Stator für eine solche Pumpe

Title (fr)

Pompe à cavité progressive et stator pour une telle pompe

Publication

EP 1522729 B2 20130327 (DE)

Application

EP 03022804 A 20031007

Priority

EP 03022804 A 20031007

Abstract (en)

[origin: EP1522729A1] Eccentric spiral pump comprises an inner casing (2) made from wear-resistant elastic material in a cylindrical housing casing (1). An inner surface (3) of the inner casing or the inner casing has a rinsing direction and length on the side facing inward. A screw-like rotor (6, 8) inserted into the inner casing in a first axial position is also provided. An independent claim is also included for an elastomer stator for the eccentric spiral pump. Preferred Features: The inner casing is extended from its front in the radial or axial direction so that the front edge (24) of the rotor rotates eccentrically during the pump operation.

IPC 8 full level

F04C 2/107 (2006.01)

CPC (source: EP)

F04C 2/1075 (2013.01)

Citation (opposition)

Opponent :

- DE 10026694 A1 20001221 - INST FRANCAIS DU PETROLE [FR]
- US 6183226 B1 20010206 - WOOD STEVEN M [US], et al
- DE 1303705 C2 19731011
- DE 19531318 A1 19970227 - ARTEMIS KAUTSCHUK KUNSTSTOFF [DE]
- US 6170572 B1 20010109 - FULBRIGHT GENE RAY NEIL [US], et al
- DE 2937403 A1 19810402 - GUMMI JAEGER KG GMBH & CIE
- DE 3304751 A1 19840823 - KUNSTSTOFFTECHNIK OBERNKIRCHEN [DE]

Cited by

DE102016009028A1; WO2018019318A1; EP2113667A4; CN114341496A; US10480506B2; EP3767105A1; WO2021009275A1; US10962004B2

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DOCDB simple family (publication)

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