

Title (en)

AXIAL SEALING

Title (de)

AXIALDICHTUNG

Title (fr)

DISPOSITIF D'ETANCHEITE AXIAL

Publication

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Application

EP 96938986 A 19961126

Priority

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- DK 133995 A 19951127

Abstract (en)

[origin: WO9720145A1] The invention concerns an axial sealing for pumps or motors, in which a medium is pumped into a chamber (7), limited by a first side wall (5) and a second side wall (6). The medium is pumped by a rotating element (9), preferably a pump wheel driven by a rotatable shaft (2). Due to the use of new pump media having a lower viscosity than previously used pump media, and due to the detrimental corrosive effect of these pump media, among others on the rotatable shaft, it is necessary to provide new sealings. The axial sealing according to the invention comprises a sealing element (19) extending around the rotatable shaft (2). In the radial direction the sealing element (19) is arranged between the rotatable shaft (2) and an inlet (12) and/or an outlet (13). The axial sealing according to the invention is able to maintain sufficient pressures in the chamber at high speeds of the rotating element, under which pumps and motors for the new pump media are working. The axial sealing according to the invention is also able to maintain the sealing in case of a leak of pump medium between the side walls (5, 6) and the rotating element (9), and is also able to maintain the sealing during a standstill of the pump.

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IPC 8 full level

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