Title (en)

Rotary positive displacement pump

Title (de)

Rotationsverdrängerpumpe

Title (fr)

Pompe volumétrique rotative

Publication

EP 0869284 A3 20000126 (DE)

Application

EP 98105932 A 19980401

Priority

DE 29705877 U 19970403

Abstract (en)

[origin: EP0869284A2] The stator of a rotary positive displacement pump has an annular surface extending over the surface of a base plate (3) facing a pressure pad (6) and with inlet (13) and outlet (15). A diaphragm (11) covers the surface and forms a pumping channel with the base plate. A rotor is positioned above the annular surface and has at least one roller (21) which presses the diaphragm locally against the annular surface by acting on the backs of pressure transmission members (14). The members are wedge-shaped and have wedge faces running radially with respect to the concentric axis of annular surface and rotor and bearing against one another without clearance.

IPC 1-7

F04B 43/14

IPC 8 full level

F04B 43/12 (2006.01); **F04B 43/14** (2006.01); **F04C 5/00** (2006.01)

CPC (source: EP)

F04B 43/082 (2013.01); **F04B 43/12** (2013.01); **F04B 43/14** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

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