

Title (en)
ROTATING PISTON PUMP

Title (de)
DREHKOLBENPUMPE

Title (fr)
POMPE A PISTON ROTATIF

Publication
EP 1282777 B1 20070815 (DE)

Application
EP 00941960 A 20000518

Priority
EP 0004519 W 20000518

Abstract (en)
[origin: WO0188377A1] The invention relates to a pump (1) comprising one or several rotating pistons (3; 103; 203; 303; 403), in particular for the delivery of substantially liquid media. At least sections of said piston(s) (3; 103; 203; 303; 403) have a surface layer (17; 117; 217; 317; 417) consisting of a polymer, in particular an elastomer. The invention is characterized in that the polymer layer has at least one cavity (19; 119; 219; 319; 419), into which a support body (20; 120; 220; 320; 420) can be introduced, said body being designed to extend the polymer layer (17; 117; 217; 317; 417).

IPC 8 full level
F04C 2/08 (2006.01); **F04C 2/18** (2006.01); **F01C 21/10** (2006.01); **F04C 5/00** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)
F01C 21/102 (2013.01 - EP US); **F04C 2/084** (2013.01 - EP US); **F04C 5/00** (2013.01 - EP US); **F04C 2230/602** (2013.01 - EP US); **F04C 2230/80** (2013.01 - EP US)

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)
WO 0188377 A1 20011122; **WO 0188377 A8 20020725**; AT E370329 T1 20070915; DE 50014574 D1 20070927; EP 1282777 A1 20030212; EP 1282777 B1 20070815; JP 2004527689 A 20040909; US 6827565 B1 20041207

DOCDB simple family (application)
EP 0004519 W 20000518; AT 00941960 T 20000518; DE 50014574 T 20000518; EP 00941960 A 20000518; JP 2003501000 A 20000518; US 18116102 A 20020925