

Title (en)
DISPLACEMENT PUMP WITH A VARIABLE VOLUMETRIC FLOW

Title (de)
VOLUMENSTROMVERÄNDERBARE VERDRÄNGERPUMPE

Title (fr)
POMPE VOLUMETRIQUE A DEBIT VOLUMETRIQUE VARIABLE

Publication
EP 1735534 A1 20061227 (DE)

Application
EP 05729835 A 20050311

Priority
• EP 2005002625 W 20050311
• DE 202004004231 U 20040317

Abstract (en)
[origin: CA2501103A1] The invention relates to a displacement pump with variable volume flow. The pump comprises a casing with a chamber formed therein which includes an inlet opening on a low pressure side and an outlet opening on a high pressure side for a fluid. The pump further comprises an internal rotor which is accommodated in the chamber and has a central ring axis which surrounds the internal rotor. In the case of rotary driving, at least one of the internal rotor and the ring forms, together with the internal rotor, at least one delivery cell in which the fluid is delivered from the low pressure side to the high pressure side. An adjusting device is arranged such that during an adjusting movement, it rolls off on the casing without slipping. In accordance with the invention, the internal rotor is fixed to the adjusting device such that it can be rotated about the rotational axis. As well, the position of the rotational axis relative to the ring axis of the ring is adjusted by the adjusting movement of the adjusting device.

IPC 8 full level
F04C 14/00 (2006.01); **F01C 1/02** (2006.01); **F01C 1/063** (2006.01); **F01C 1/24** (2006.01); **F01L 1/34** (2006.01); **F04C 2/10** (2006.01); **F04C 14/14** (2006.01)

CPC (source: EP US)
F04C 2/10 (2013.01 - EP US); **F04C 14/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2005093259A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 202004004231 U1 20050728; CA 2501103 A1 20050917; EP 1735534 A1 20061227; MX PA05007799 A 20060118; US 2005214149 A1 20050929; WO 2005093259 A1 20051006

DOCDB simple family (application)
DE 202004004231 U 20040317; CA 2501103 A 20050317; EP 05729835 A 20050311; EP 2005002625 W 20050311; MX PA05007799 A 20050316; US 8117005 A 20050316