

Title (en)
VARIABLE DISPLACEMENT PUMP WITH AXIAL DISPLACEMENT OF THE VANES

Title (de)
VERSTELLPUMPE MIT AXIALER VERSCHIEBUNG DER SCHAUFELN

Title (fr)
POMPE À DÉBIT VARIABLE PAR DÉPLACEMENT LONGITUDINAL

Publication
EP 3392506 A1 20181024 (EN)

Application
EP 16834106 A 20161215

Priority
• PT 2015109033 A 20151215
• IB 2016057678 W 20161215

Abstract (en)
The present disclosure relates to a variable displacement vane pump, in particular for oil, comprising a body having a cavity wherein a movable ring slides in the longitudinal direction over the rotor which rotates around an axis and which is provided with vanes which are radially supported on the inner surface of the fixed ring of fixed eccentricity relative to the rotation axis of the rotor, and with movement means in the longitudinal direction of the movable ring according to a pilot pressure between a position corresponding to the maximum volume of the plurality of chambers, the return elastic spring being in this position at its maximum length, and a predetermined end position corresponding to the minimum volume of the plurality of chambers, the return elastic spring being in this position at its minimum length by action of the displacement in the longitudinal direction of the movable wall which occurs simultaneously to the longitudinal displacement of the plurality of vanes and of the movable ring.

IPC 8 full level
F04C 2/344 (2006.01); **F04C 14/18** (2006.01)

CPC (source: EP)
F04C 2/3448 (2013.01); **F04C 14/185** (2013.01)

Citation (search report)
See references of WO 2017103852A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3392506 A1 20181024

DOCDB simple family (application)
EP 16834106 A 20161215