

Title (en)
A HOLLOW DISK PUMP OF THE PORTABLE TYPE WITH VARIABLE ECCENTRICITY

Title (de)
TRAGBARE HOHLSCHEIBENPUMPE MIT VARIABLER EXZENTRIZITÄT

Title (fr)
POMPE À DISQUE CREUX DU TYPE PORTABLE À EXCENTRICITÉ VARIABLE

Publication
EP 3443225 A1 20190220 (EN)

Application
EP 16726980 A 20160414

Priority
IT 2016000095 W 20160414

Abstract (en)
[origin: WO2017179079A1] The present invention concerns a hollow disc pump that foresees: An impeller (9); A rotating shaft (3); Means (4, 5, 30, 36) to connect eccentrically the impeller (9) to the rotating shaft (3) in such a way that the impeller (9) can be conducted in rotation by said rotating shaft and contextually can translate, moving near and/or moving apart transversally with respect to the longitudinal axis of said rotating shaft (3); Characterized in that said means comprise a guiding hole obtained transversally in the rotating shaft and a ring (30) suitable for connecting with the impeller (9) and of such internal diameter that the rotating shaft is inserted in such ring with a predetermined radial play, and wherein said ring is provided with a radial pivot (5) that is inserted slidingly in said guiding hole of the shaft in such a way that the ring can move transversally with respect to the rotating shaft (9) through said pivot (5) that can slide in the guiding hole, and wherein elastic means (4) are further foreseen, arranged in such a way that said ring (30) is kept eccentric with respect to the longitudinal shaft with a pre-determined transversal play (d).

IPC 8 full level
F04C 2/04 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 2/045 (2013.01); **F04C 15/0065** (2013.01); **F04C 15/0073** (2013.01)

Citation (search report)
See references of WO 2017179079A1

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)
WO 2017179079 A1 20171019; EP 3443225 A1 20190220; EP 3443225 B1 20230111

DOCDB simple family (application)
IT 2016000095 W 20160414; EP 16726980 A 20160414