

Title (en)
PUMP DEVICE

Title (de)
PUMPENVORRICHTUNG

Title (fr)
ENSEMBLE POMPE

Publication
EP 3574215 A1 20191204 (DE)

Application
EP 18731795 A 20180612

Priority
• DE 102017116468 A 20170721
• EP 2018065501 W 20180612

Abstract (en)
[origin: WO2019015883A1] A pump device (10) for pumping a fluid, having a hydraulic housing (12) which comprises an annular section, a pump ring (14) which is deformable and defines an annular pump chamber at least in sections, a pump ring carrier (16) which is connected fixedly to the pump ring (14), a first connector and a second connector, which first connector and which second connector are connected fluidically to the pump chamber, wherein the pump device (10) is set up in such a way that a parking position of an eccentric (18) is influenced by way of at least one measure in such a way that said parking position is preferred in the region of a clamping member (114), wherein the measure is selected from: a) at least one recess in the hydraulic housing, which recess widens the chamber for the pump ring (14) locally in the axial direction, b) a geometry of the pump ring carrier (16), which geometry is such that the pump ring carrier (16) has an enlarged diameter in the angular region of the clamping member (114) on its inner side which is assigned to the eccentric (18), and c) a geometric configuration of the pump ring (14), which geometric configuration provides at least a reduced thickness of the pump ring (14) in a region in the non-installed state of the pump ring (14), wherein said region lies in the clamping member region in the installed state of the pump ring (14), which results in a reduced axial pressing action of the pump ring (14) in the clamping member region.

IPC 8 full level
F04C 5/00 (2006.01); **F01C 5/02** (2006.01); **F04B 43/08** (2006.01)

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Citation (search report)
See references of WO 2019015883A1

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