Title (en)

PRESSURE INTENSIFIER FOR SCREW-IN

Title (de)

DRUCKÜBERSETZER ALS EINSCHRAUBGERÄT

Title (fr)

MULTIPLICATEUR DE PRESSION EN TANT QUE VISSEUSE

Publication

EP 3242017 B1 20190102 (DE)

Application

EP 16168387 A 20160504

Priority

EP 16168387 A 20160504

Abstract (en)

[origin: US2017321728A1] A pressure intensifier for fluids, in particular for liquids, comprising a cylinder block in which a pressure intensifier piston and a control piston move cyclically, wherein the pressure intensifier piston forms a high-pressure working chamber and a low-pressure working chamber in the cylinder block and the cylinder block has a low-pressure connection for feeding in low-pressure fluid from outside, a high-pressure connection for discharging higher-pressure working fluid towards the outside and a connection for discharging fluid whose working capacity in the pressure intensifier is exhausted, wherein the cylinder block has a coupling portion rigidly connected with it, which can be inserted into a receiving bore of a hydraulic block and fixed there, so that the receiving bore encloses the coupling portion, wherein the coupling portion has at least two fluid transfer regions fluidically separated by a seal, for exchanging fluid between the pressure intensifier and the hydraulic block into which it is inserted.

IPC 8 full level

F04B 7/04 (2006.01); **F04B 9/08** (2006.01); **F04F 13/00** (2009.01); **F15B 3/00** (2006.01)

CPC (source: EP US)

F04B 7/04 (2013.01 - EP US); **F04B 9/08** (2013.01 - EP US); **F04F 13/00** (2013.01 - EP US); **F15B 3/00** (2013.01 - EP US)

Citation (opposition)

Opponent : miniBOOSTER Hydraulics A/S

- DE 19633258 C1 19970828 - IVERSEN HYDRAULICS APS [DK]
- DE 102009030514 B4 20150910 - SCANWILL FLUID POWER APS [DK]
- EP 2044333 A1 20090408 - SCANWILL APS [DK]
- US 7597545 B2 20091006 - PEDERSEN HARRY EMIL [DK], et al

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

DOCDB simple family (publication)

EP 3242017 A1 20171108; **EP 3242017 B1 20190102**; **EP 3242017 B2 20231011**; DK 3242017 T3 20190423; DK 3242017 T4 20231218; US 2017321728 A1 20171109

DOCDB simple family (application)

EP 16168387 A 20160504; DK 16168387 T 20160504; US 201715581543 A 20170428