

Title (en)

HYDRAULIC PUMP UNIT AND METHOD OF ASSEMBLING A HYDRAULIC PUMP UNIT

Title (de)

HYDRAULIKPUMPENEINHEIT UND VERFAHREN ZUR MONTAGE EINER HYDRAULIKPUMPENEINHEIT

Title (fr)

UNITÉ DE POMPE HYDRAULIQUE ET PROCÉDÉ D'ASSEMBLAGE D'UNE UNITÉ DE POMPE HYDRAULIQUE

Publication

EP 3438454 B1 20201125 (EN)

Application

EP 18193521 A 20150717

Priority

- NL 2013265 A 20140725
- EP 15738919 A 20150717
- EP 2015066482 W 20150717

Abstract (en)

[origin: WO2016012381A1] Hydraulic pump unit (1) comprising a pump (2), a reservoir (3), multiple line connectors (99) and at least one valve seat (40) and a main body (5) including a channel system (50) having duct ends (502) which define multiple ports (52) in a common port face (51). The port face (51) of the main body (5) is a planar face of an outer surface of the main body (5). The pump unit comprises a function plate (6) which comprises a slotted passageway (60). The function plate (6) is placed to the port face (51) such that the slotted passageway (60) mates with at least two ports (52) to define a flow path in between these ports (52). An end body (9) sandwiches the function plate (6) between the port face (51) of the main body (5) and the end body (9) itself.

IPC 8 full level

F04B 39/12 (2006.01); **F01C 21/00** (2006.01); **F04C 15/06** (2006.01); **F15B 21/00** (2006.01)

CPC (source: CN EP)

F01C 21/007 (2013.01 - EP); **F04B 39/123** (2013.01 - EP); **F04B 53/16** (2013.01 - CN); **F04C 15/06** (2013.01 - EP); **F15B 21/003** (2013.01 - EP)

Citation (examination)

- US 4120260 A 19781017 - KUBO SUEKI, et al
- JP 3094172 B2 20001003

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)

WO 2016012381 A1 20160128; CN 106687691 A 20170517; CN 106687691 B 20190510; EP 3172438 A1 20170531; EP 3172438 B1 20180912; EP 3438454 A1 20190206; EP 3438454 B1 20201125; NL 2013265 B1 20160816; PL 3438454 T3 20210705

DOCDB simple family (application)

EP 2015066482 W 20150717; CN 201580046073 A 20150717; EP 15738919 A 20150717; EP 18193521 A 20150717; NL 2013265 A 20140725; PL 18193521 T 20150717