

Title (en)

Hydraulic distributor for a hydraulic heating and/or cooling system

Title (de)

Hydraulischer Verteiler für ein hydraulisches Heizungs- und/oder Kühlsystem

Title (fr)

Distributeur hydraulique pour un système de chauffage et/ou de refroidissement hydraulique

Publication

EP 2871422 B1 20161214 (DE)

Application

EP 13192032 A 20131107

Priority

EP 13192032 A 20131107

Abstract (en)

[origin: US2015122902A1] A hydraulic manifold for a hydraulic heating and/or cooling system includes a feed conduit (212) and a return conduit (216). The feed conduit (212) includes at least one feed connection (258), and the return conduit (216) includes at least one return connection (260), for the connection of a load circuit (228). A load module (204), in which a section of the feed conduit (212) with the feed connection (258), and a section of the return conduit (216) with the return section (260) are formed, includes at least one mixing device with a pump (232) and with a regulating valve (230), to admix fluid from the return connection (260) to a fluid flow from the feed conduit (212) to the feed connection (258). The section of the feed conduit (212) and the return conduit (216) in each case include an additional contact for connection with a further load module.

IPC 8 full level

F24H 1/12 (2006.01); **F24D 3/10** (2006.01); **F24D 3/12** (2006.01); **F24D 3/14** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)

F24D 3/1066 (2013.01 - US); **F24D 3/1075** (2013.01 - EP US); **F24D 3/1091** (2013.01 - US); **F24D 3/125** (2013.01 - US); **F24D 3/146** (2013.01 - US); **F24D 19/1021** (2013.01 - EP US); **F24H 1/12** (2013.01 - US); **Y10T 137/85954** (2015.04 - EP US); **Y10T 137/87249** (2015.04 - EP US)

Citation (opposition)

Opponent : KSB Aktiengesellschaft

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- US 7191789 B2 20070320 - CORBETT JR A HOYT [US]
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- FR 2712073 B1 19960119 - COMAP [FR]
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- KSB: "BOA-Systronic", BETRIEBSANLEITUNG 7540.8/8, 25 July 2008 (2008-07-25), XP055420725

Cited by

ES2551657A1; EP2950006A1; DE102014008319B4; EP3919821A1; EP3285013A1

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 2871422 A1 20150513; **EP 2871422 B1 20161214**; **EP 2871422 B2 20200729**; DK 2871422 T3 20170313; US 11243000 B2 20220208; US 2015122902 A1 20150507; US 2020063980 A1 20200227

DOCDB simple family (application)

EP 13192032 A 20131107; DK 13192032 T 20131107; US 201414534518 A 20141106; US 201916668711 A 20191030