

Title (en)

OUTER CONDUIT OF AN OUTLET OF A VOLUTE OF A HEAT TRANSFER PUMP OF A HEAT ENGINE OF A VEHICLE

Title (de)

ÄUSSERE LEITUNG EINES AUSGANGS EINER SPIRALE EINER WÄRMETRANSFERPUMPE EINER WÄRMEKRAFTMASCHINE EINES FAHRZEUGS

Title (fr)

CONDUIT EXTERNE D'UNE SORTIE D'UNE VOLUTE D'UNE POMPE A FLUIDE CALOPORTEUR D'UN MOTEUR THERMIQUE D'UN VÉHICULE

Publication

**EP 3500746 A1 20190626 (FR)**

Application

**EP 17754766 A 20170803**

Priority

- FR 1657775 A 20160816
- FR 2017052178 W 20170803

Abstract (en)

[origin: WO2018033669A1] The invention relates to an outer conduit (1) of an outlet (4) of a volute (3) of a heat transfer pump (2), particularly arranged in a housing defined in a heat engine of a vehicle, the outer conduit (1) being comprised on an outer face (9) of a cylinder housing (8) of the engine and comprising a first component (5a) that can guide the heat transfer fluid from said outlet (4) to an inlet (6) of an inner circuit (7) for the circulation of the heat transfer fluid, defined in the cylinder housing (8).

IPC 8 full level

**F01P 5/10** (2006.01); **F01P 11/04** (2006.01); **F02F 1/14** (2006.01); **F02F 7/00** (2006.01)

CPC (source: EP US)

**F01P 3/20** (2013.01 - US); **F01P 5/10** (2013.01 - EP US); **F01P 11/04** (2013.01 - EP); **F02F 1/26** (2013.01 - US); **F02F 1/40** (2013.01 - US); **F01P 3/02** (2013.01 - US); **F01P 5/06** (2013.01 - US); **F01P 11/04** (2013.01 - US); **F01P 2003/027** (2013.01 - US); **F01P 2007/143** (2013.01 - US); **F01P 2007/146** (2013.01 - US); **F01P 2060/04** (2013.01 - EP US); **F01P 2060/08** (2013.01 - EP US); **F01P 2060/16** (2013.01 - US); **F02F 1/14** (2013.01 - US)

Citation (search report)

See references of WO 2018033669A1

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 2018033669 A1 20180222**; CN 109642515 A 20190416; CN 109642515 B 20201215; EP 3500746 A1 20190626; EP 3500746 B1 20230705; FR 3055150 A1 20180223; JP 2019526013 A 20190912; JP 6702508 B2 20200603; US 10823043 B2 20201103; US 2020191040 A1 20200618

DOCDB simple family (application)

**FR 2017052178 W 20170803**; CN 201780050057 A 20170803; EP 17754766 A 20170803; FR 1657775 A 20160816; JP 2019523189 A 20170803; US 201716323886 A 20170803