

Title (en)

HEAT EXCHANGER, NOTABLY FOR MOTOR VEHICLE

Title (de)

WÄRMETAUSCHER, INSBESONDERE FÜR KRAFTFAHRZEUGE

Title (fr)

ÉCHANGEUR THERMIQUE, NOTAMMENT POUR VEHICULE AUTOMOBILE

Publication

EP 3394555 A1 20181031 (FR)

Application

EP 16829107 A 20161216

Priority

- FR 1562894 A 20151221
- FR 2016053498 W 20161216

Abstract (en)

[origin: WO2017109350A1] The invention relates to a heat exchanger, notably for motor vehicle, comprising: – a heat exchange core bundle (3) with a plurality of heat exchange tubes (5), and – at least one fluid header tank (19). According to the invention, the heat exchange core bundle (3) comprises an alternating stack of a plurality of first frames (13) and of inserts (15), such that: – each first frame (13) accepts at least a first and a second heat-exchange tube (5), and comprises: .first means (131) of placing the first heat exchange tube (5) in fluidic communication with the fluid header tank (19) and .second means (131) of placing the second heat exchange tube (5) in fluidic communication with the fluid header tank (19), and – the inserts (15) also respectively have at least one turning-back orifice (155) arranged in fluidic communication with both a first and a second means (131) of placing at least a first frame (13) in fluidic communication with respect to the insert (155).

IPC 8 full level

F28D 7/00 (2006.01); **F28D 7/16** (2006.01); **F28D 9/00** (2006.01); **F28F 1/02** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)

F28D 7/0025 (2013.01); **F28D 7/1684** (2013.01); **F28D 7/1692** (2013.01); **F28D 9/0081** (2013.01); **F28F 1/022** (2013.01); **F28F 9/0221** (2013.01); **F28D 2021/0068** (2013.01); **F28D 2021/0073** (2013.01); **F28D 2021/008** (2013.01)

Citation (search report)

See references of WO 2017109350A1

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)

FR 3045807 A1 20170623; **FR 3045807 B1 20171229**; EP 3394555 A1 20181031; WO 2017109350 A1 20170629

DOCDB simple family (application)

FR 1562894 A 20151221; EP 16829107 A 20161216; FR 2016053498 W 20161216