

Title (en)
HEAT EXCHANGER FOR A REFRIGERANT FLUID CIRCULATION CIRCUIT

Title (de)
WÄRMETAUSCHER FÜR EINEN KÜHLFLÜSSIGKEITSSTRÖMUNGSKREIS

Title (fr)
ÉCHANGEUR DE CHALEUR POUR CIRCUIT DE CIRCULATION DE FLUIDE FRIGORIGÈNE

Publication
EP 3587980 A1 20200101 (EN)

Application
EP 18179300 A 20180622

Priority
EP 18179300 A 20180622

Abstract (en)
The invention relates to a heat exchanger (1) comprising a core and at least one header box (3) that extends mainly in a longitudinal direction (A1), said core comprising at least four passes (25) distributed in two rows (11, 12), with two first inlet-passes (25) being part of a first row (11) of the heat exchanger (1) and two last outlet-passes (25) being part of a second row (12) of the heat exchanger (1). Each pass (25) has a respective length (L) measured along the longitudinal direction (A1), wherein the sum of the length (L) of the two first inlet-passes (L) is equal +/-10% to the sum of the length (L) of the two last outlet-passes (L), and the length (L) of the first inlet-pass (L) is bigger than the length (L) of the last outlet-pass (25).

IPC 8 full level
F28D 1/053 (2006.01); **F28F 9/02** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP)
F28D 1/05391 (2013.01); **F28F 9/0204** (2013.01); **F28D 2021/0071** (2013.01); **F28D 2021/0085** (2013.01)

Citation (applicant)
US 2005050915 A1 20050310 - INABA HIROYUKI [JP], et al

Citation (search report)
• [X] EP 1058080 A1 20001206 - MITSUBISHI HEAVY IND LTD [JP]
• [A] EP 3138709 A1 20170308 - VOLVO CAR CORP [SE]
• [A] WO 2013162222 A1 20131031 - LG ELECTRONICS INC [KR]
• [A] US 2018029446 A1 20180201 - JEON YOUNG-HA [KR], 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3587980 A1 20200101

DOCDB simple family (application)
EP 18179300 A 20180622