

Title (en)

COLLECTOR PLATE, CORRESPONDING HEADER BOX AND CORRESPONDING HEAT EXCHANGER

Title (de)

KOLLEKTORPLATTE, ENTSPRECHENDE KOPFKAMMER UND ENTSPRECHENDER WÄRMETAUSCHER

Title (fr)

PLAQUE COLLECTRICE, BOITE COLLECTRICE ET ECHANGEUR THERMIQUE CORRESPONDANTS

Publication

EP 3491316 A1 20190605 (FR)

Application

EP 17748840 A 20170725

Priority

- FR 1657377 A 20160729
- FR 2017052064 W 20170725

Abstract (en)

[origin: WO2018020138A1] The invention relates to a collector plate (11) for heat exchanger (1), the collector plate (11) comprising: – a peripheral groove (21) exhibiting a bottom (22), – at least one upper step (25) protruding with respect to the bottom (22) of the said groove (21) over a predefined height (H1), and – at least at one longitudinal end of the collector plate (11) an intermediate portion (27) between the upper step (25) and the said groove (21). According to the invention, at the said at least one longitudinal end of the collector plate (11), the said groove (21) exhibits an interior wall (23) at least one portion of which connects the intermediate portion (27) to the bottom (22) of the said groove (21) and extends over a height (H2) that is non-zero and less than the height (H1) of the upper step (25). The invention also relates to a corresponding header box (3) and to a corresponding heat exchanger (1).

IPC 8 full level

F28D 1/053 (2006.01); **F28F 9/02** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP US)

F28D 1/05366 (2013.01 - EP US); **F28F 9/0226** (2013.01 - EP US); **F28F 9/04** (2013.01 - EP)

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 2018020138 A1 20180201; CN 109844436 A 20190604; EP 3491316 A1 20190605; FR 3054653 A1 20180202; FR 3054653 B1 20180727; US 11732979 B2 20230822; US 2021285732 A1 20210916

DOCDB simple family (application)

FR 2017052064 W 20170725; CN 201780052838 A 20170725; EP 17748840 A 20170725; FR 1657377 A 20160729; US 201716321707 A 20170725