

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 3198211 B1 20181212 (FR)

Application
EP 15766878 A 20150923

Priority
• FR 1458942 A 20140923
• EP 2015071888 W 20150923

Abstract (en)
[origin: WO2016046270A1] The present invention relates to a heat exchanger (1), comprising: - a heat exchange bundle (3) in which a first heat-transfer fluid circulates, - at least one input box (5a) or output box (5b) of a second heat-transfer fluid, - at least one collector (7) arranged on the periphery of the heat exchange bundle (3) and comprising a side wall (75) of which at least two portions (77) are folded so as to secure the box (5a, 5b) by crimping against the heat exchange bundle (3), the side wall (75) following the contour of at least one angled corner of the heat exchange bundle (7), said side wall (75) comprising, on both sides of the angled corner, a folded portion (77) and comprising at said angled corner a non-folded portion (79), the folded portion (77) being connected in a continuous manner to the non-folded portion (79).

IPC 8 full level
F28F 9/02 (2006.01)

CPC (source: CN EP KR US)
F02B 29/04 (2013.01 - KR); **F28D 1/05375** (2013.01 - US); **F28D 15/00** (2013.01 - US); **F28F 1/00** (2013.01 - US);
F28F 9/0226 (2013.01 - CN EP KR US); **F28F 9/0251** (2013.01 - US); **F28D 2021/0082** (2013.01 - CN EP KR US);
F28F 2275/122 (2013.01 - CN EP KR US)

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)
FR 3026166 A1 20160325; FR 3026166 B1 20190913; CN 107208984 A 20170926; CN 107208984 B 20200630; EP 3198211 A1 20170802;
EP 3198211 B1 20181212; ES 2713625 T3 20190523; JP 2017528680 A 20170928; JP 6556839 B2 20190807; KR 101939513 B1 20190116;
KR 20170058988 A 20170529; PL 3198211 T3 20190628; US 10634432 B2 20200428; US 2017284743 A1 20171005;
WO 2016046270 A1 20160331

DOCDB simple family (application)
FR 1458942 A 20140923; CN 201580058194 A 20150923; EP 15766878 A 20150923; EP 2015071888 W 20150923; ES 15766878 T 20150923;
JP 2017515899 A 20150923; KR 20177010709 A 20150923; PL 15766878 T 20150923; US 201515513047 A 20150923