

Title (en)
Heat exchanger assembly having split mini-louvered fins

Title (de)
Wärmetauscheranordnung mit geteilten eingeschlitzten Mini-Rippen

Title (fr)
Ensemble échangeur de chaleur à ailettes mini-lames fendues

Publication
EP 2778592 B1 20160309 (EN)

Application
EP 14159252 A 20140312

Priority
US 201313834355 A 20130315

Abstract (en)
[origin: US2013199760A1] A heat exchanger assembly is provided having at least one header, a plurality of spaced apart fluid tubes in hydraulic communication with the header, and a plurality of corrugated fins disposed between the tubes. The corrugated fins include a planar portion having a louver segment defined between a pair of primary slits, in which the louver segment includes an intermediate slit splitting the louver segment into a pair of mini-louvers. The mini-louvers are counter-offset such that one of the mini-louvers is on one side of the planar portion and the other one of the mini-lover is on the other side of the planar portion. The mini-louvers may be pivoted about their respective junctures such that each of the mini-louver segments is oblique relative to the planar portion.

IPC 8 full level
F28F 1/00 (2006.01); **F28D 1/053** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP US)
F28F 1/128 (2013.01 - EP US); **F28D 1/05366** (2013.01 - EP US)

Cited by
US10094624B2

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)
US 2013199760 A1 20130808; BR 102014006089 A2 20150519; BR 102014006089 A8 20170704; CN 104048522 A 20140917; CN 104048522 B 20171212; EP 2778592 A1 20140917; EP 2778592 B1 20160309; KR 20140113418 A 20140924

DOCDB simple family (application)
US 201313834355 A 20130315; BR 102014006089 A 20140314; CN 201410095606 A 20140314; EP 14159252 A 20140312; KR 20140028892 A 20140312