

Title (en)
HEAT EXCHANGER FIN

Title (de)
WÄRMETAUSCHERRIPPE

Title (fr)
AILETTE D'ÉCHANGEUR DE CHALEUR

Publication
EP 2106520 A1 20091007 (EN)

Application
EP 07853381 A 20071214

Priority

- US 2007025559 W 20071214
- US 62251207 A 20070112
- US 77021007 A 20070628

Abstract (en)
[origin: WO2008085279A1] A serpentine fin for assembly between tubes in a heat exchanger core, and a method of making same from a metal strip. The strip edges preferably have a hem comprising a double thickness of the strip material extending inward from the edge. The metal strip has folds extending across the strip width such that the strip forms a serpentine shape, with the folds being adapted to contact the tubes in the heat exchanger core. Multiple rows of split louvers are disposed between adjacent folds. Each row of split louvers comprises louvers having openings extending in the direction of the strip length and formed in a pair of adjacent, spaced louver banks. Ribs are disposed parallel to the louver openings adjacent the strip edges and in at least one center portion of the strip between the strip edges, and extend across the pair of louver banks. Preferably, the strip has ribs formed both in the center portion and along the edges. After forming the rows of split louvers, pressure is applied to the strip to cause the flat strip to buckle along unformed portions, extending across the strip width between rows of split louvers, thereby forming folds in the strip resulting in the serpentine fin.

IPC 8 full level
F28F 3/02 (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP)
B21D 13/04 (2013.01); **F28D 1/05383** (2013.01); **F28F 1/128** (2013.01); **F28F 2215/02** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008085279 A1 20080717; CA 2672218 A1 20080717; EP 2106520 A1 20091007; EP 2106520 A4 20120801; EP 2106520 B1 20141119; MX 2009005538 A 20090608

DOCDB simple family (application)
US 2007025559 W 20071214; CA 2672218 A 20071214; EP 07853381 A 20071214; MX 2009005538 A 20071214