

Title (en)

COMPACT SIDE PLATE FOR AUTOMOTIVE CONDENSER

Title (de)

KOMPAKTE SEITENPLATTE FÜR KRAFTFAHRZEUGKONDENSATOR

Title (fr)

PLAQUE LATÉRALE COMPACTE POUR CONDENSEUR D'AUTOMOBILE

Publication

EP 3196583 A1 20170726 (EN)

Application

EP 17151908 A 20170118

Priority

IT UB20160140 A 20160120

Abstract (en)

A corner junction arrangement for a heat exchanger, comprising a header (13, 15) including a tubular metal vessel (13a, 15a) and an end closure element (13b, 15b), and a side plate (19) consisting of flat metal sheet, which extends orthogonally to the header (13, 15) and is fastened to the end thereof, the side plate (19) having an end tab (21, 23) inserted within the axial slot (13d, 15d) formed in the collar wall portion (13c, 15c) of the tubular vessel (13a, 15a). The end closure element (13b, 15b) has a flat surface (13f) that extends radially from the center to the periphery of the end closure element (13b, 15b) at the axial slot (13d, 15d) formed in the collar wall portion (13c, 15c) of the tubular vessel (13a, 15a), and the end tab (21, 23) of the side plate (19) is joined by means of material coupling to the end closure element (13b, 15b) at said flat surface.

IPC 8 full level

F28F 9/00 (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)

F28F 9/002 (2013.01); **F28F 9/0202** (2013.01)

Citation (search report)

- [A] JP H11337290 A 19991210 - ZEXEL CORP
- [A] DE 10343634 A1 20050414 - MODINE MFG CO [US]

Cited by

EP4113046A1

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 3196583 A1 20170726; **EP 3196583 B1 20181128**; AR 107404 A1 20180425; BR 102017001284 A2 20170725; BR 102017001284 B1 20220927; ES 2713003 T3 20190517; IT UB20160140 A1 20170720; PL 3196583 T3 20190628

DOCDB simple family (application)

EP 17151908 A 20170118; AR P170100157 A 20170120; BR 102017001284 A 20170120; ES 17151908 T 20170118; IT UB20160140 A 20160120; PL 17151908 T 20170118