

Title (en)
Method for manufacturing a heat exchanger

Title (de)
Verfahren zur Herstellung eines Wärmetauschers

Title (fr)
Procédé de fabrication d'un échangeur thermique

Publication
EP 2208956 A2 20100721 (DE)

Application
EP 09177331 A 20091127

Priority
DE 102009004908 A 20090116

Abstract (en)
The method involves arranging conduit elements (3) e.g. flexible tubes, between perforated plates (2). Cable element sections (4) are partially inserted into respective passage openings (8) of the plates. The conduit elements are glued with the plates by an adhesive layer (7). The conduit elements and/or the plates are made of plastic or metal. Flow-accelerated openings (13) are provided at the adhesive layer. The cable element sections and/or the passage openings include a retaining contour, which prevents slippage of the plates and the conduit elements during the gluing process. An independent claim is also included for a heat exchanger comprising conduit elements.

Abstract (de)
Die Erfindung betrifft ein Verfahren zur Herstellung eines Wärmetauschers (1), insbesondere eines Ladeluftkühlers für ein Kraftfahrzeug. Durch Verkleben der Leitungselemente (3) mit einer Lochplatte (2) ist ein solcher Wärmetauscher (1) besonders einfach und kostengünstig herzustellen.

IPC 8 full level
F28F 9/02 (2006.01); **F28F 9/16** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP)
F28F 9/0229 (2013.01); **F28F 9/162** (2013.01); **F28F 21/062** (2013.01); **F28F 21/067** (2013.01)

Citation (applicant)
• US 2008173436 A1 20080724 - BAYLIS BOBBYE KAYE [CA], et al
• US 2008000625 A1 20080103 - BAYLIS BOBBYE KAYE [CA], et al

Citation (examination)
• US 5562153 A 19961008 - SASAKI KENICHI [JP]
• DE 3809944 A1 19891012 - SUEDEDEUTSCHE KUEHLER BEHR [DE]
• DE 102007032211 A1 20090115 - MODINE MFG CO [US]
• WO 2007009588 A1 20070125 - DSM IP ASSETS BV [NL], et al
• DE 102008021544 A1 20090129 - MODINE MFG CO [US]

Cited by
CN107735640A; CN114072629A; US11624558B2; WO2017021503A1; WO2019229148A1; WO2016071039A1

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

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EP 09177331 A 20091127; DE 102009004908 A 20090116