

Title (en)

A MANIFOLD FOR A HEAT EXCHANGER, IN PARTICULAR FOR AN AUTOMOTIVE RADIATOR

Title (de)

VERTEILER FÜR EINEN WÄRMETAUSCHER, INSBESONDERE FÜR EINEN FAHRZEUGKÜHLER

Title (fr)

COLLECTEUR POUR ÉCHANGEUR DE CHALEUR, EN PARTICULIER POUR UN RADIATEUR DE VÉHICULE AUTOMOBILE

Publication

EP 3239636 A1 20171101 (EN)

Application

EP 16167508 A 20160428

Priority

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Abstract (en)

The manifold (1) for a heat exchanger (22), in particular for an automotive radiator, comprises a housing (4), which is a unitary element of a closed profile and has at least one longitudinal channel (5) defined therein, a plurality of slots (7) on one of the surfaces (8) of said housing (4), and two side surfaces (11), wherein said slots (7) are in fluid communication with said at least one longitudinal channel (5). The manifold comprises also a cover (2) applied at least on said slotted surface (8) and said side surfaces (11) of the housing (4) and having a plurality of slots (3) located at positions corresponding to the positions of said slots (7) of said housing (4) for introducing flat tubes (20) of the heat exchanger (22) into them. The cover (2) is connected to the housing (4) by brazing. Said housing (4) further has undercuts (14, 15), on its outer surface covered by said cover (2), extending in the longitudinal direction of said housing (4) and forming channels for correct clad flow management between said housing (4) and said cover (2).

IPC 8 full level

F28D 1/053 (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)

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Citation (applicant)

EP 2960609 A1 20151230 - VALEO AUTOSYSTEMY SP ZOO [PL]

Citation (search report)

- [YD] EP 2960609 A1 20151230 - VALEO AUTOSYSTEMY SP ZOO [PL]
- [Y] WO 0235170 A1 20020502 - SHOWA DENKO KK [JP], et al
- [A] US 6564863 B1 20030520 - MARTINS CARLOS [FR]
- [A] US 2008105419 A1 20080508 - OH KWANGHEON [KR], et al
- [A] DE 19524052 A1 19970102 - BEHR GMBH & CO [DE]
- [A] JP H02309196 A 19901225 - NIPPON DENSO CO

Designated contracting state (EPC)

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Designated extension state (EPC)

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