

Title (en)

A type of binding structure between tank and header of automotive radiator

Title (de)

Art einer Verbindungsstruktur zwischen dem Sammler und der Endplatte eines Kraftfahrzeugkühlers

Title (fr)

Type de structure de liaison entre un collecteur et une plaque d'extrémité d'un radiateur automobile

Publication

**EP 2161530 A2 20100310 (EN)**

Application

**EP 09010023 A 20090804**

Priority

CN 200810195930 A 20080905

Abstract (en)

The invention involves positive contact to create a binding structure between tank and header of an automotive radiator, specifically the upper tank(3), with the upper header(4), and the bottom tank(9) with the bottom header(11). There is a lip of outward extension metal I(3.1) from the lower edge of the upper tank (3), corresponding to the lip of outward extension metal I, there is a lip of vertically downward material bending I(4.1) from the outer edge of the upper header(4). Said lip of outward extension metal I (3.1) from the lower edge of the upper tank(3) tightly encloses the lip of vertically downward bending I (4.1), thereby allowing a complete and positive bound by brazing. There is a Lip of outward extension metal II (9.1) from the upper edge of the bottom tank (9), corresponding to the lip of outward extension metal II (9.1), there is a lip of vertically upward bending II(11.1) from the outer edge of the bottom header (11). Said lip of outward extension metal II(9.1) from the upper edge of the bottom tank (9) tightly encloses the said lip of upward bending II (11.1) from the outer edge of the bottom header, thereby allowing a complete and positive bound by brazing. This structure of tank enclosing header ensures the integrated structure of the radiator and the firm binding between tank and header.

IPC 8 full level

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CPC (source: EP US)

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