

Title (en)

A heat exchanger, in particular an intercooler for motor vehicles

Title (de)

Ein Wärmetauscher, insbesondere Ladeluftkühler für Kraftfahrzeuge

Title (fr)

Un échangeur de chaleur, en particulier refroidisseur d'air de suralimentation pour véhicules automobiles

Publication

**EP 1921413 B1 20120919 (EN)**

Application

**EP 06398018 A 20061109**

Priority

EP 06398018 A 20061109

Abstract (en)

[origin: EP1921413A1] Described herein is a heat exchanger, in particular an intercooler for motor vehicles, comprising: - a plurality of pipes (12) parallel to one another; - a metal bottom plate (14) formed by a metal plate of constant thickness (T) sheared and bent and having a plurality of collars (20), inserted within which are the ends of the respective pipes (12); - a manifold tank made of plastic material (16) fixed by clinching to the bottom plate (14); and - an annular gasket (28) compressed between an outer rim (36) of the manifold tank (16) and a base surface (22) of the bottom plate (14). The distance between the outer surface of the pipes (12) and the gasket (28) is equal to the thickness of the walls (20b) of said collars (20).

IPC 8 full level

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CPC (source: EP)

**F28F 9/0226** (2013.01); **F28D 2021/0082** (2013.01)

Cited by

CN102052872A; JP2011144974A; CN105806139A; EP2434245A1; US10006723B2; US10066881B2; WO2015133592A1

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