

Title (en)

Heat exchanger with header of reduced space requirement, in particular for vehicles

Title (de)

Wärmetauscher mit raumsparendem Sammelkasten, insbesondere für Kraftfahrzeuge

Title (fr)

Echangeur de chaleur avec collecteur d'encombrement réduit, notamment pour véhicule automobile

Publication

EP 1150087 B1 20060201 (FR)

Application

EP 01109480 A 20010425

Priority

FR 0005414 A 20000427

Abstract (en)

[origin: EP1150087A2] The heat exchanger has a bundle of tubes (32) with fins (34) and a collector (10) which has a central web (12), in which there are a row (R) of holes (14) bordered by flanges (16) for receiving the tube bundles. There is a peripheral groove (18) connected to a central web by a folded edge (20). Each flange is in contact with the folded edge in such a way as to have minimum play, thus reducing the size of the collector.

IPC 8 full level

F28F 9/02 (2006.01); **F28F 9/16** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP)

F28F 9/0226 (2013.01); **F28F 9/18** (2013.01); **F28D 2021/0094** (2013.01); **F28D 2021/0096** (2013.01)

Cited by

FR2849175A1; FR2882428A1; WO2006087447A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1150087 A2 20011031; **EP 1150087 A3 20020424**; **EP 1150087 B1 20060201**; AT E317103 T1 20060215; BR 0101677 A 20020213; BR 0101677 B1 20081118; DE 60116916 D1 20060413; FR 2808322 A1 20011102; FR 2808322 B1 20020906; JP 2001349689 A 20011221; PL 347288 A1 20011105

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EP 01109480 A 20010425; AT 01109480 T 20010425; BR 0101677 A 20010427; DE 60116916 T 20010425; FR 0005414 A 20000427; JP 2001119533 A 20010418; PL 34728801 A 20010426