

Title (en)

MOTOR VEHICLE HEAT EXCHANGER AND METHOD FOR MAKING SAME

Title (de)

WÄRMETAUSCHER FÜR KRAFTFAHRZEUGE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

ECHANGEUR DE CHALEUR POUR VEHICULE AUTOMOBILE, ET SON PROCEDE DE FABRICATION

Publication

**EP 1015838 B1 20030820 (FR)**

Application

**EP 99957195 A 19990622**

Priority

- FR 9901497 W 19990622
- FR 9807923 A 19980623

Abstract (en)

[origin: FR2780152A1] The heat exchanger comprises an array of parallel tubes (10) assembled at each end to a top or bottom manifold (12,14). Each manifold has a cover, or series of covers (24,26,28), of identical dimensions to direct flow through groups of the tubes. Additionally, intake and collector covers (16,20) direct flow into and out of the manifolds. The covers are normally made from pressed steel, located and brazed to lips (32,34) on the manifolds.

IPC 1-7

**F28F 9/02**

IPC 8 full level

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

CPC (source: EP)

**F28D 1/05375** (2013.01); **F28F 9/0209** (2013.01)

Cited by

EP1884734A1; US7484555B2

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

**FR 2780152 A1 19991224; FR 2780152 B1 20010330**; DE 69910533 D1 20030925; DE 69910533 T2 20040624; EP 1015838 A1 20000705; EP 1015838 B1 20030820; WO 9967592 A1 19991229

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