

Title (en)

INNER HEAT EXCHANGER, PARTICULARLY FOR MOTOR VEHICLE AIR CONDITIONERS

Title (de)

INNERER WÄRMETAUSCHER, INSBESONDERE FÜR KRAFTFAHRZEUGKLIMAANLAGEN

Title (fr)

ÉCHANGEUR DE CHALEUR INTERNE EN PARTICULIER POUR CLIMATISEURS DE VÉHICULES À MOTEUR

Publication

EP 2486356 B1 20130703 (DE)

Application

EP 10752757 A 20100902

Priority

- DE 102009044119 A 20090928
- EP 2010062845 W 20100902

Abstract (en)

[origin: WO2011036044A2] The invention relates to an inner heat exchanger for separately guiding a cooling fluid flow and a fluid flow to be cooled. In order to improve the heat transfer between the two separately guided fluid flows, a cylindrical flow body (20) is provided, comprising a convex impact surface (42) on the front end thereof. A plurality of individual tubes (12) forming a parallel tube bundle are disposed on a circumference of a circle in the flow body (20), guiding the fluid flow to be cooled. The individual tubes are located in longitudinal holes (43) of the flow body (20) extending in parallel axes, forming an annular gap (45) through which the cooling fluid flows.

IPC 8 full level

F28D 7/10 (2006.01); **F28F 9/02** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP)

F28D 7/10 (2013.01); **F28F 9/0253** (2013.01); **F28F 13/06** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 102009044119 A1 20110331; CN 102667389 A 20120912; CN 102667389 B 20140430; EP 2486356 A2 20120815; EP 2486356 B1 20130703; WO 2011036044 A2 20110331; WO 2011036044 A3 20110721

DOCDB simple family (application)

DE 102009044119 A 20090928; CN 201080043284 A 20100902; EP 10752757 A 20100902; EP 2010062845 W 20100902