

Title (en)

HEAT EXCHANGER, IN PARTICULAR FOR MOTOR VEHICLES

Title (de)

WÄRMEÜBERTRÄGER, INSbesondere FÜR KRAFTFAHRZEUGE

Title (fr)

ECHANGEUR THERMIQUE CONÇU EN PARTICULIER POUR DES VÉHICULES AUTOMOBILES

Publication

**EP 1690056 B1 20140305 (DE)**

Application

**EP 04765229 A 20040915**

Priority

- EP 2004010315 W 20040915
- DE 10349140 A 20031017

Abstract (en)

[origin: WO2005038376A1] The invention relates to a heat exchanger, in particular for motor vehicles, for a first gaseous flow medium and a second gaseous flow medium. Said heat exchanger comprises a tube bundle containing a plurality of tubes, a first tube base and a second tube base, a housing, in addition to an inlet connection and an outlet connection for the gaseous medium. The tubes comprise tube ends, which are held and sealed by the tube bases and the housing is connected on one side to the tube bases, forming a cooling chamber for the liquid flow medium and on its end face to the inlet and outlet connections.

IPC 8 full level

**F28D 7/16** (2006.01); **F28F 7/02** (2006.01); **F28F 9/16** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP US)

**F28D 7/1684** (2013.01 - EP US); **F28F 7/02** (2013.01 - EP US); **F28F 9/16** (2013.01 - EP US); **F28F 21/084** (2013.01 - EP US);  
**F28D 2021/0082** (2013.01 - EP US); **F28F 2255/00** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005038376 A1 20050428**; DE 10349140 A1 20050512; EP 1690056 A1 20060816; EP 1690056 B1 20140305;  
US 2007029076 A1 20070208

DOCDB simple family (application)

**EP 2004010315 W 20040915**; DE 10349140 A 20031017; EP 04765229 A 20040915; US 57589306 A 20060414