

Title (en)

HEAT TRANSFER UNIT, ESPECIALLY FOR A MOTOR VEHICLE

Title (de)

WÄRMEÜBERTRAGEREINHEIT, INSBESONDERE FÜR EIN KRAFTFAHRZEUG

Title (fr)

UNITE DE TRANSFERT DE CHALEUR, EN PARTICULIER POUR UN VEHICULE A MOTEUR

Publication

EP 1497604 A1 20050119 (DE)

Application

EP 03724969 A 20030407

Priority

- DE 10215624 A 20020409
- DE 10255011 A 20021125
- EP 0303600 W 20030407

Abstract (en)

[origin: WO03085348A1] The invention relates to a heat transfer unit comprising at least two heat transfer elements, especially for a motor vehicle. Said unit comprises a plurality of tubes and corrugated ribs, two side parts (4) which enclose the monoblock on the opposite sides thereof, whereby at least one side part (4) comprises at least one expansion section (11).

IPC 1-7

F28F 9/00; **F28D 1/04**

IPC 8 full level

F28F 9/26 (2006.01); **F28D 1/04** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP US)

F28D 1/0435 (2013.01 - EP US); **F28F 9/001** (2013.01 - EP US); **F28F 2009/004** (2013.01 - EP US); **F28F 2265/26** (2013.01 - EP US)

Citation (search report)

See references of WO 03085348A1

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 PT RO SE SI SK TR

DOCDB simple family (publication)

WO 03085348 A1 20031016; AU 2003227571 A1 20031020; BR 0304406 A 20040727; EP 1497604 A1 20050119; JP 2005522662 A 20050728; US 2004251002 A1 20041216; US 7108050 B2 20060919

DOCDB simple family (application)

EP 0303600 W 20030407; AU 2003227571 A 20030407; BR 0304406 A 20030407; EP 03724969 A 20030407; JP 2003582491 A 20030407; US 48825904 A 20040312