

Title (en)

HEAT EXCHANGER, IN PARTICULAR A FLAT PIPE EVAPORATOR FOR A MOTOR VEHICLE AIR CONDITIONING SYSTEM

Title (de)

WÄRMETAUSCHER, INSBESONDERE FLACHROHR-VERDAMPFER FÜR EINE KRAFTFAHRZEUG-KLIMAANLAGE

Title (fr)

ECHANGEUR DE CHALEUR, EN PARTICULIER EVAPORATEUR A TUYAUX PLATS POUR UN SYSTEME DE CLIMATISATION DE VEHICULE A MOTEUR

Publication

EP 1711772 B1 20161228 (DE)

Application

EP 05707067 A 20050128

Priority

- EP 2005000859 W 20050128
- DE 102004004494 A 20040128

Abstract (en)

[origin: DE102005004284A1] A collecting tank (2) divides lengthwise into two chambers. Ends of pipes, e.g. flat pipes, are inserted into the base of the collecting tank, which has a tunnel-shaped collecting tank part, i.e. a level collecting tank part to form the base, and covers at each front side. An independent claim is also included for a motor vehicle's air-conditioning facility with a vaporizer.

IPC 8 full level

F28D 1/053 (2006.01); **F28F 1/12** (2006.01); **F28F 9/02** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP US)

F28D 1/05366 (2013.01 - EP US); **F28F 1/126** (2013.01 - EP US); **F28F 9/0204** (2013.01 - EP US); **F28D 2021/0085** (2013.01 - EP US); **F28F 9/0246** (2013.01 - EP US); **F28F 2220/00** (2013.01 - EP US); **F28F 2265/32** (2013.01 - EP US)

Citation (examination)

- JP 2002257493 A 20020911 - TOYO RADIATOR CO LTD
- JP 2000304486 A 20001102 - SANDEN CORP
- DE 19722098 A1 19980917 - BEHR GMBH & CO [DE]
- EP 0709644 A2 19960501 - VALEO ENGINE COOLING INC [US]

Designated contracting state (EPC)

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

DOCDB simple family (publication)

DE 102005004284 A1 20050811; BR PI0507143 A 20070619; BR PI0507143 B1 20180807; CN 100565079 C 20091202; CN 1914473 A 20070214; EP 1711772 A1 20061018; EP 1711772 B1 20161228; US 2008029256 A1 20080207; WO 2005073662 A1 20050811

DOCDB simple family (application)

DE 102005004284 A 20050128; BR PI0507143 A 20050128; CN 200580003278 A 20050128; EP 05707067 A 20050128; EP 2005000859 W 20050128; US 58692605 A 20050128