

Title (en)

HEAT EXCHANGER, ESPECIALLY A THERMAL BODY FOR MOTOR VEHICLES

Title (de)

WÄRMEÜBERTRÄGER, INSbesondere HEIZKÖRPER FÜR KRAFTFAHRZEUGE

Title (fr)

ÉCHANGEUR DE CHALEUR, EN PARTICULIER RADIATEUR POUR DES VÉHICULES AUTOMOBILES

Publication

EP 2232183 A2 20100929 (DE)

Application

EP 08859570 A 20081104

Priority

- EP 2008009271 W 20081104
- DE 102007059672 A 20071210
- DE 102008017485 A 20080403

Abstract (en)

[origin: WO2009074196A2] The invention relates to a heat exchanger (1) comprising at least two rows (3, 4) of flow channels (2) through which a liquid medium can flow, and secondary surfaces arranged between the flow channels (2) and over which air flows, the liquid medium and the air being circulated in the cross-counterflow and the first row (3) being arranged on the air outlet side and the second row (4) on the air inlet side. According to the invention, the liquid medium enters a first region (9) of the first row (3), is deflected into a second region (10a, 10b) inside the first row (3), and from the second region (10a, 10b) of the first row (3) into the second row (4).

IPC 8 full level

F28D 1/053 (2006.01)

CPC (source: EP US)

F28D 1/05391 (2013.01 - EP US); **F28F 9/0204** (2013.01 - EP US); **F28F 9/22** (2013.01 - US); **F28D 2021/0096** (2013.01 - EP US)

Citation (search report)

See references of WO 2009074196A2

Cited by

EP2430385B1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102008055624 A1 20090618; CN 101889186 A 20101117; EP 2232183 A2 20100929; EP 2232183 B1 20180912;
US 2011036546 A1 20110217; US 8695689 B2 20140415; WO 2009074196 A2 20090618; WO 2009074196 A3 20090827

DOCDB simple family (application)

DE 102008055624 A 20081103; CN 200880120711 A 20081104; EP 08859570 A 20081104; EP 2008009271 W 20081104;
US 79601210 A 20100608