

Title (en)

RADIATOR FOR A MOTOR VEHICLE HAVING AN INTERNAL COMBUSTION ENGINE

Title (de)

HEIZKÖRPER FÜR EIN KRAFTFAHRZEUG MIT EINER BRENNKRAFTMASCHINE

Title (fr)

RADIATEUR POUR UN VÉHICULE AUTOMOBILE AVEC UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2430385 B1 20160713 (DE)

Application

EP 10717165 A 20100506

Priority

- EP 2010056208 W 20100506
- DE 102009020711 A 20090511

Abstract (en)

[origin: WO2010130635A1] The invention relates to a radiator for a motor vehicle having an internal combustion engine, comprising a radiator block having at least four rows of flow channels (2a, 2b, 3a, 3b) for a coolant which can be withdrawn from the cooling circuit of the internal combustion engine, at least one coolant tank (4, 5) for the inflow and/or outflow, the distribution, collection and/or redirection of the coolant, wherein the at least one coolant tank (4, 5) is provided with longitudinal and/or transverse separating walls (4a, 4b, 4c, 5a) for redirecting the coolant in the depth and/or the width, and wherein air flows through the radiator block in the flow direction (L) and the coolant is conducted through the flow channels (2a, 2b, 3a, 3b) in a counter flow. According to the invention, the coolant is distributed on the inflow side among a number of flow channels (2a, 2b), which corresponds to the maximum number of flow channels of a row.

IPC 8 full level

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

CPC (source: EP)

F28D 1/05391 (2013.01); **F28F 9/0204** (2013.01); **F28D 2021/0096** (2013.01)

Citation (examination)

- EP 2232183 A2 20100929 - BEHR GMBH & CO KG [DE]
- EP 0414433 A2 19910227 - SHOWA ALUMINIUM CO LTD [JP]

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 102009020711 A1 20101118; EP 2430385 A1 20120321; EP 2430385 B1 20160713; WO 2010130635 A1 20101118

DOCDB simple family (application)

DE 102009020711 A 20090511; EP 10717165 A 20100506; EP 2010056208 W 20100506