

Title (en)  
HEAT EXCHANGER

Title (de)  
WÄRMEÜBERTRAGER

Title (fr)  
ÉCHANGEUR DE CHALEUR

Publication  
**EP 2671032 B1 20180509 (DE)**

Application  
**EP 12703096 A 20120206**

Priority  
• DE 102011003649 A 20110204  
• EP 2012051984 W 20120206

Abstract (en)  
[origin: WO2012104438A2] A heat exchanger, in particular for a heating or air-conditioning system in a motor vehicle, having an evaporator unit to which a refrigerant medium can be supplied via a distribution unit and through which said refrigerant medium flows and around which said refrigerant medium flows after only one diversion (two-block design) at the bottom in a diversion unit, wherein the distribution unit is designed to effect a uniform distribution of the refrigerant medium over the full width of the evaporator.

IPC 8 full level  
**F25B 39/02** (2006.01)

CPC (source: EP US)  
**F25B 39/028** (2013.01 - EP US); **F25B 41/39** (2021.01 - EP); **F28F 1/00** (2013.01 - US); **F28F 9/026** (2013.01 - EP US);  
**F25B 41/39** (2021.01 - US)

Citation (examination)  
US 2004159121 A1 20040819 - HORIUCHI HIROFUMI [JP], et al

Citation (opposition)  
Opponent : Valeo Systèmes Thermiques  
• EP 0121079 A1 19841010 - SUEDEDEUTSCHE KUEHLER BEHR [DE]  
• WO 02090860 A1 20021114 - VALEO TERMICO SA [ES], et al  
• DE 19515527 A1 19961031 - THERMAL WERKE BETEILIGUNGEN GM [DE]  
• DE 19719257 A1 19981112 - VALEO KLIMATECH GMBH & CO KG [DE]  
• US 2004159121 A1 20040819 - HORIUCHI HIROFUMI [JP], et al  
• DE 19719261 A1 19981112 - VALEO KLIMATECH GMBH & CO KG [DE]  
• WO 2005026641 A1 20050324 - LG ELECTRONICS INC [KR], et al  
• EP 0634615 A1 19950118 - MODINE MFG CO [US]  
• JP H04309766 A 19921102 - NIPPON DENSO CO  
• US 2007039724 A1 20070222 - TRUMBOWER MICHAEL W [US], et al  
• EP 0654645 A2 19950524 - SHOWA ALUMINUM CORP [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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102011003649 A1 20120809**; EP 2671032 A2 20131211; EP 2671032 B1 20180509; US 2014027096 A1 20140130;  
US 9599409 B2 20170321; WO 2012104438 A2 20120809; WO 2012104438 A3 20130328

DOCDB simple family (application)  
**DE 102011003649 A 20110204**; EP 12703096 A 20120206; EP 2012051984 W 20120206; US 201213982888 A 20120206