

Title (en)
Heat transfer device, in particular cooling liquid cooler for a motor vehicle

Title (de)
Wärmeübertrager, insbesondere Kühlmittelkühler für Kraftfahrzeuge

Title (fr)
Échangeur de chaleur, en particulier radiateur pour liquide de refroidissement dans un véhicule automobile

Publication
EP 1972879 A3 20140108 (DE)

Application
EP 08004214 A 20080307

Priority
DE 102007013483 A 20070321

Abstract (en)
[origin: EP1972879A2] The heat exchanger has a block with a pipe (8) and especially ribs, a passage (7) for the pipe and a peripheral channel (4) for an elastomeric seal and/or a bottom with a preferably plastic cover joined to the bottom, especially by soldering or welding, whereby the bottom has at least one outer edge protruding beyond at least one end by a total dimension (X) consisting of several individual dimensions (x1-x4). The first individual dimension relating to the distance between the block or pipe and the channel is equal to or less than 0.5 mm.

IPC 8 full level
F28F 9/02 (2006.01)

CPC (source: EP)
F28F 9/0224 (2013.01); **F28F 9/0226** (2013.01)

Citation (search report)
• [XYI] FR 2882428 A1 20060825 - VALEO SYSTEMES THERMIQUES [FR]
• [XYI] US 2003217838 A1 20031127 - DEY LAVOYCE [US], et al
• [X] DE 19515530 A1 19961031 - THERMAL WERKE BETEILIGUNGEN GM [DE]
• [YD] DE 3841470 A1 19900613 - SUEDDEUTSCHE KUEHLER BEHR [DE]
• [Y] FR 2875592 A1 20060324 - VALEO THERMIQUE MOTEUR SAS [FR]
• [Y] EP 0372187 A1 19900613 - SUEDDEUTSCHE KUEHLER BEHR [DE]
• [A] DE 102004033784 A1 20060202 - BEHR GMBH & CO KG [DE]
• [A] US 4917182 A 19900417 - BEAMER HENRY E [US]

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CN103890530A; EP4332492A1; JP2017075741A; US10393450B2; US9810484B2; WO2012159971A1; WO2013060882A1

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)
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EP 08004214 A 20080307; DE 102007013483 A 20070321