

Title (en)  
Plate heat exchanger with mounting flange

Title (de)  
Plattenwärmetauscher mit Befestigungsflansch

Title (fr)  
Échangeur de chaleur à plaques avec bride de montage

Publication  
**EP 2886996 B1 20160713 (EN)**

Application  
**EP 13198883 A 20131220**

Priority  
EP 13198883 A 20131220

Abstract (en)  
[origin: EP2886996A1] A plate heat exchanger (1) comprises a plate package (2) of permanently connected heat exchanger plates that defines a surrounding wall (4). Two mounting plates (7) are permanently connected to an end surface (5) of the plate package (2), in spaced relation to each other. Each mounting plate (7) comprises opposing flat engagement surfaces connected by an edge portion that extends along the perimeter of the mounting plate (7). Each mounting plate (7) is arranged with one of its engagement surfaces permanently connected to the end surface (5), such that the perimeter of the mounting plate (7) partially extends beyond the surrounding wall (4), to define a mounting flange, and partially extends across the end surface (5) in contact with the same within the perimeter of the surrounding wall (4). The perimeter of the mounting plate (7) defines a concave shape comprising two concave portions (15) as seen in a normal direction to the end surface (5), the concave portions (15) being located to intersect the surrounding external wall (4).

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 9/00** (2006.01); **F28F 9/007** (2006.01)

CPC (source: EP)  
**F28D 9/005** (2013.01); **F28F 9/002** (2013.01); **F28F 9/0075** (2013.01); **F28F 2280/06** (2013.01)

Citation (opposition)  
Opponent : MAHLE International GmbH  
• DE 102007008459 A1 20071213 - BEHR GMBH & CO KG [DE]  
• WO 2011009412 A1 20110127 - CATERPILLAR INC [US], et al  
• DE 202012007775 U1 20121015 - DANA CANADA CORP [CA]  
• DE 102011080824 A1 20130214 - MAHLE INT GMBH [DE]  
• US 2005121182 A1 20050609 - HUMMEL JURGEN [DE], et al  
• CN 201285244 Y 20090805 - NINGBO LURUN CONDENSER MANUFAC [CN]  
• US 2010258095 A1 20101014 - SAUMWEBER CHRISTIAN [DE], et al  
• US 8181695 B2 20120522 - BRADU PASCAL [FR], et al  
• DE 10347181 A1 20050519 - MODINE MFG CO [US], et al

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)  
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DOCDB simple family (application)  
**EP 13198883 A 20131220**; EP 2014077423 W 20141211; SE 1650782 A 20141211; TW 103144274 A 20141218