

Title (en)  
HEAT EXCHANGER

Title (de)  
WÄRMETAUSCHER

Title (fr)  
ÉCHANGEUR DE CHALEUR

Publication  
**EP 2588826 B1 20140416 (DE)**

Application  
**EP 11727195 A 20110624**

Priority  
• DE 102010025576 A 20100629  
• EP 2011060639 W 20110624

Abstract (en)  
[origin: WO2012000905A2] The invention relates to a heat exchanger composed of a plurality of layers situated one on top of the other, which layers have in each case one cavity (24) for the passage of a medium to be cooled and delimit a further cavity (25) for the passage of a coolant, wherein each layer (6, 6a, 6b, 19) has a through hole (11, 12) for the passage of the medium to be cooled. In the case of a heat exchanger which is versatile and for which the tooling investment costs are reduced, one layer (6, 6a, 6b, 19) is composed of a frame (6, 6a, 6b) into which a turbulence insert (19) is placed.

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

CPC (source: EP US)  
**F28D 7/0008** (2013.01 - US); **F28D 9/0075** (2013.01 - EP US); **F28F 2275/04** (2013.01 - EP US); **F28F 2280/04** (2013.01 - EP US)

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 102010025576 A1 20111229**; CN 103154655 A 20130612; CN 103154655 B 20160427; DK 2588826 T3 20140526;  
EP 2588826 A2 20130508; EP 2588826 B1 20140416; ES 2464371 T3 20140602; US 2013168048 A1 20130704; WO 2012000905 A2 20120105;  
WO 2012000905 A3 20120308

DOCDB simple family (application)  
**DE 102010025576 A 20110629**; CN 201180032678 A 20110624; DK 11727195 T 20110624; EP 11727195 A 20110624;  
EP 2011060639 W 20110624; ES 11727195 T 20110624; US 201113807646 A 20110624