

Title (en)  
HEAT TRANSFER DEVICE

Title (de)  
VORRICHTUNG ZUR WÄRMEÜBERTRAGUNG

Title (fr)  
DISPOSITIF DE TRANSFERT DE CHALEUR

Publication  
**EP 1305561 A1 20030502 (DE)**

Application  
**EP 01951364 A 20010609**

Priority  
• DE 0102162 W 20010609  
• DE 10035939 A 20000721

Abstract (en)  
[origin: WO0208680A1] The invention relates to a device for transferring heat from a first fluid to a second fluid that is separate from said first fluid. Said device comprises a stack or shell structure comprising at least two layers (1, 2, 3), especially boards (1, 2, 3). Every layer (1, 2, 3) comprises a heat transfer zone with a plurality of channels (11, 12, 13), an inlet zone disposed upstream, in the direction of flow, of the heat transfer zone and an outlet zone disposed downstream, in the direction of flow, of the heat transfer zone. The aim of the invention is to improve such a device in such a way that it provides a comparatively large heat-transferring surface while having a small volume and that it allows a troublefree operation even if there is a large pressure difference between the two fluids. To this end, the inlet and/or outlet zone comprises at least one support element (18).

IPC 1-7  
**F28D 9/00**

IPC 8 full level  
**F28F 3/08** (2006.01); **F28D 9/00** (2006.01); **F28D 9/02** (2006.01); **F28F 9/22** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP KR US)  
**F28D 9/00** (2013.01 - KR); **F28D 9/005** (2013.01 - EP US); **F28F 9/0268** (2013.01 - EP US); **F28F 2225/08** (2013.01 - EP US); **Y10S 165/906** (2013.01 - EP US)

Citation (search report)  
See references of WO 0208680A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**WO 0208680 A1 20020131**; BR 0106982 A 20020514; DE 10035939 A1 20020207; DE 50107511 D1 20051027; EP 1305561 A1 20030502; EP 1305561 B1 20050921; ES 2248358 T3 20060316; JP 2004504584 A 20040212; KR 20020032602 A 20020503; US 2003094271 A1 20030522; US 7040387 B2 20060509

DOCDB simple family (application)  
**DE 0102162 W 20010609**; BR 0106982 A 20010609; DE 10035939 A 20000721; DE 50107511 T 20010609; EP 01951364 A 20010609; ES 01951364 T 20010609; JP 2002514326 A 20010609; KR 20027003652 A 20020320; US 8828502 A 20020314