

Title (en)  
Plate heat exchanger

Title (de)  
Plattenwärmetauscher

Title (fr)  
Echangeur de chaleur à plaques

Publication  
**EP 1452816 B1 20090325 (DE)**

Application  
**EP 04000568 A 20040114**

Priority  
DE 10304733 A 20030206

Abstract (en)  
[origin: EP1452816A2] Plate heat exchanger comprises a stack of heat exchanger plates (1, 2), flow channels (3, 4) between the heat exchanger plates for at least two separate media, inlet channels (5) and outlet channels for the media, and a base plate and a top plate (10). A connecting sleeve (12) formed preferably on the top plate communicates with an inlet or outlet channel and has an inlet cross-section (13) and an outlet cross-section (14). The connecting sleeve is connected to an inlet or outlet line (15). A plane of the inlet cross-section and a plane of the outlet cross-section of the connecting sleeve are arranged at an acute angle (20) to each other. The end of the line opening into the inlet or outlet cross-section runs at least partly above the top plate or below the base plate. Preferred Features: The acute angle is preferably 10-70[deg].

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 9/02** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP US)  
**F28D 9/005** (2013.01 - EP US); **F28F 9/0246** (2013.01 - EP US); **F28D 2021/0049** (2013.01 - EP US); **F28F 9/0075** (2013.01 - EP US)

Cited by  
EP1647796A1; EP2154465A3; FR3086381A1; ES2324073A1; EP2402702A1; FR2962207A1; US10113807B2; US8109326B2; WO2008034812A1; WO2007073304A1; WO2007073305A1; WO2020065225A1

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DE FR GB

DOCDB simple family (publication)  
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