

Title (en)  
Plate type heat-exchanger.

Title (de)  
Plattenwärmetauscher.

Title (fr)  
Echangeur de chaleur à plaques.

Publication  
**EP 0548602 B1 19951018 (DE)**

Application  
**EP 92120516 A 19921202**

Priority  
DE 4142177 A 19911220

Abstract (en)  
[origin: EP0548602A1] The invention relates to a plate-type heat exchanger having counterflow or parallel-flow ducts which are formed, on the one hand, by individual plates (1) connected to form plate pairs (P) and, on the other hand, by plate pairs (P) joined to form a plate stack (S). In order to distribute the media entering through the feed cross-sections (Z1 and Z2) over the entire width of the duct within a short axial entry region (E), the individual plates (1) are provided with projections (2) which resemble guide blades and project into the respective flow duct at least from one side. In order to improve the heat transfer capacity, the individual plates (1) can be provided with profiles, which adjoin the entry region (E), extend over the entire duct width and duct length and are preferably made from a multiplicity of individual knobs (31, 32), in order to generate turbulence in the ducts. <IMAGE>

IPC 1-7  
**F28F 3/08**; **F28D 9/00**

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 3/04** (2006.01); **F28F 3/08** (2006.01); **F28F 3/10** (2006.01)

CPC (source: EP US)  
**F28D 9/0037** (2013.01 - EP US); **F28F 3/044** (2013.01 - EP US); **F28F 3/083** (2013.01 - EP US); **F28F 9/0268** (2013.01 - EP US); **F28F 2250/104** (2013.01 - EP US)

Cited by  
EP1070928A4; EP0803694A3; DE19832164A1; DE19832164C2; FR3096768A1; WO2018166648A1; WO2020239767A1

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