

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>

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

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