

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Echangeur de chaleur

Publication
EP 0840084 A3 19990728 (DE)

Application
EP 97116121 A 19970917

Priority
DE 29618878 U 19961030

Abstract (en)
[origin: EP0840084A2] The heat exchanger has individual pipes (2) whose free ends are connected to one another in order to form a flow path, and which have seals to prevent leakage of gas or liquid. The outer layer of each pipe is mounted on a rim flange. The pipes can be inserted into openings (1116) which are distributed with set spacings over the surface of two covering components (11), which are made from a polymer material. The openings have circumferential seals (1117) so that the insertion ends of the pipes can seal against the covering components. The pipes may be made from a polymer, metallic, or inorganic material. The size of each opening may also be up to 15 percent smaller than the circumference of the insertion end of each pipe.

IPC 1-7
F28F 21/06; F28F 9/02; F28F 9/14

IPC 8 full level
F28F 9/02 (2006.01); **F28F 9/06** (2006.01); **F28F 9/14** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP)
F28F 9/02 (2013.01); **F28F 9/06** (2013.01); **F28F 9/14** (2013.01); **F28F 21/062** (2013.01); **F28F 21/067** (2013.01)

Citation (search report)
• [XY] EP 0429401 A2 19910529 - BORLETTI CLIMATIZZAZIONE [IT]
• [Y] DE 4337505 C1 19950330 - SIEMENS AG [DE]
• [X] GB 2171192 A 19860820 - SUEDEDEUTSCHE KUEHLER BEHR
• [X] DE 3124216 A1 19821230 - VENTOS LUEFTUNGSTECHNIK GMBH [DE]
• [X] EP 0481178 A1 19920422 - ZANKER GMBH [DE]
• [DA] GROSS: "kunststoffe im wärmeaustauscherbau", KUNSTSTOFFE, vol. 84, no. 6, 1994, hanser verlag, münchen, pages 767 - 771, XP000199326

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DE 29618878 U1 19961219; EP 0840084 A2 19980506; EP 0840084 A3 19990728; TR 199701239 A2 19980521; TR 199701239 A3 19980521

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