

Title (en)

Core unit of heat exchanger having electric heater

Title (de)

Kerneinheit eines Wärmetauschers mit elektrischem Heizer

Title (fr)

Noyau d'un échangeur de chaleur avec réchauffeur électrique

Publication

**EP 0857922 A3 19991208 (EN)**

Application

**EP 98102091 A 19980206**

Priority

- JP 2415497 A 19970206
- JP 9241797 A 19970410
- JP 21504297 A 19970808

Abstract (en)

[origin: EP0857922A2] A core unit (3) of a heat exchanger is composed of a plurality of parallel flat tubes (6), a plurality of corrugated fins (7), a support member (100) disposed between two of the corrugated fins (7) and an electric heater (9) disposed inside the support member (100). The support member (100) has a pair of parallel plates (10, 11) bonded to the corrugated fins (7) at the summits of corrugation of the corrugated fins (7). The electric heater (9) is composed of a heating element (9a) and an insulation member (9d) inserted between the heating element (9a) and the parallel plates (10, 11). <IMAGE>

IPC 1-7

**F24H 3/04**

IPC 8 full level

**F24H 3/04** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP KR)

**F24H 1/009** (2013.01 - EP KR); **F24H 3/0405** (2013.01 - EP); **F24H 3/0429** (2013.01 - EP); **F24H 3/0435** (2013.01 - EP KR);  
**F24H 3/0441** (2013.01 - KR); **F24H 3/047** (2013.01 - EP KR); **F24H 3/082** (2013.01 - EP KR); **F24H 3/085** (2013.01 - EP KR);  
**F24H 9/1872** (2013.01 - EP KR); **F28F 1/128** (2013.01 - EP)

Citation (search report)

[A] DE 4433814 A1 19960328 - BEHR GMBH & CO [DE]

Cited by

FR2826711A1; FR3083301A1; EP0937595A3; CN115250548A; US2013188937A1; EP2695756A4; DE19925444A1; DE19925444C2;  
EP1961591A4; CN105150805A; US2009165991A1; WO03002920A1; WO0204879A1; WO2017141215A1; US6911631B2; FR2793546A1;  
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