

Title (en)
Heat exchanger with U-shaped tubes

Title (de)
Wärmetauscher mit U-Rohren

Title (fr)
Echangeur de chaleur à faisceau de tubes en U

Publication
EP 0864830 B1 20011024 (DE)

Application
EP 97104377 A 19970314

Priority
EP 97104377 A 19970314

Abstract (en)
[origin: EP0864830A1] The heat exchanger, with U-shaped pipes, has the inner and outer legs of the U-pipes (2) located on two concentric arcs. The inner legs surround the axis of a central pipe (11) of the heat exchanger, connected to the inlets (5) and open to the interior of the heat exchanger, to extend from one end of the heat exchanger to a point near the pipe base (3) at the other end of the heat exchanger. A dividing mantle (12) is between the inner and outer legs of the U-pipes (2), connected to the pipe base (3). The guide mantle (13) is tightly bonded to the central pipe (11) at one end, with its open end reaching almost to the pipe base (3). The outlet fitting (7), from the ring zone (14) between the guide (13) and pressure (1) mantles, is at the end of the heat exchanger away from the open end of the guide mantle (13).

IPC 1-7
F28D 7/06; **F28F 27/00**

IPC 8 full level
F28D 7/10 (2006.01); **F28D 7/06** (2006.01); **F28D 7/16** (2006.01); **F28F 27/00** (2006.01)

CPC (source: EP US)
F28D 7/06 (2013.01 - EP US); **F28D 7/1676** (2013.01 - EP US); **F28F 27/00** (2013.01 - EP US); **Y10S 165/113** (2013.01 - EP US); **Y10S 165/118** (2013.01 - EP US); **Y10S 165/409** (2013.01 - EP US)

Cited by
EP2123895A1; DE10333463C5; CN104534901A; EP3406999A1; US11054196B2; WO2018215160A1; WO2007060172A1

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