

Title (en)

Flat tube heat exchanger, particularly serpentine condenser

Title (de)

Flachrohr-Wärmeübertrager, insbesondere Kondensator vom Serpentinentyp

Title (fr)

Echangeur de chaleur à tubes plats, en particulier condenseur de type à serpent

Publication

**EP 0845648 B1 20020130 (DE)**

Application

**EP 97120670 A 19971126**

Priority

- EP 97120670 A 19971126
- DE 19649129 A 19961127

Abstract (en)

[origin: EP0845648A2] The heat exchanger includes flat tubes (1) which have one end sector (1a) deformed to fit in a component (3) forming a connection cavity. This end sector is twisted and/or bent to form an adjacent section (1b) of smaller measurement across the cross section. The flat tubes may be twisted about an angle (alpha , beta ) between about 10 and 20[deg] at the end fitting in the connection component. This end may be bent in a V shape or a U shape so that the flanks of the bent end sectors are in contact with each other.

IPC 1-7

**F28F 1/02**; **F28D 1/047**

IPC 8 full level

**F28D 1/047** (2006.01); **F28F 1/02** (2006.01)

CPC (source: EP)

**F28D 1/0478** (2013.01); **F28F 1/025** (2013.01)

Cited by

CN114588865A; CN100380081C; EP1710525A4; DE10241635A1; CN100374807C; DE19911334A1; DE10326381A1; DE10326381B4; US6546999B1; US7650935B2; US7347063B2; US7650934B2; WO0003190A1; WO03048670A1; WO2004005826A1; WO2004013558A3; WO0055561A1; US6993838B1; JP2005531748A

Designated contracting state (EPC)

DE FR SE

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**EP 0845648 A2 19980603**; **EP 0845648 A3 19980610**; **EP 0845648 B1 20020130**

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