

Title (en)

Tube-fin heat exchanger, manufacturing process and expanding tool therefore

Title (de)

Lamellenwärmetauscher, Verfahren zu dessen Herstellung und Aufweitwerkzeug zur Durchführung des Verfahrens

Title (fr)

Echangeur de chaleur à lamelles, procédé de fabrication et outil d'expansion pour ce procédé

Publication

**EP 1691159 B1 20120620 (DE)**

Application

**EP 06001938 A 20060131**

Priority

DE 102005005292 A 20050204

Abstract (en)

[origin: EP1691159A1] The lamina plates (1) have a saw-tooth profile and are stacked between mounting plates (5) and heat transfer tubes (7) are pressed through them with connecting U-section tubing (6) in a serpentine manner. Heating tubes (9) also pass through without interconnections to accommodate electric heating elements or heating fluid for defrosting.

IPC 8 full level

**B21D 39/06** (2006.01); **B21D 39/20** (2006.01); **B21D 53/08** (2006.01); **B25B 5/14** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP)

**B21D 53/085** (2013.01); **F28F 1/32** (2013.01); **F28F 2275/125** (2013.01)

Cited by

CN102374702A; DE102017200422A1; US9015943B2; US9091493B2; US9182179B2

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