

Title (en)
Heat exchanger and method for manufacturing same

Title (de)
Wärmetauscher und Herstellungsverfahren

Title (fr)
Echangeur de chaleur et sa méthode de fabrication

Publication
EP 1243885 A3 20040211 (DE)

Application
EP 02002238 A 20020130

Priority
DE 10114078 A 20010322

Abstract (en)
[origin: EP1243885A2] Heat exchanger consists of flat heat exchanger tubes (1) with ends (3) extending into openings (5) of a tubular base (4). The narrow sides (12) of the exchanger tubes on its ends have a separating section (17) and the longitudinal sides (11) are bent so that the ends of the longitudinal sides of neighboring heat exchanger tubes form a surface (15) over the tubular base. An Independent claim is also included for a process for the production of the heat exchanger. Preferred Features: Opposite-lying narrow sides of the ends of the heat exchanger tubes are split and opposite-lying longitudinal sides of the ends of the heat exchanger tubes are bent so that a surface is formed on the inner side of the tubular base.

IPC 1-7
F28D 1/053

IPC 8 full level
F28D 1/053 (2006.01); **F28F 9/02** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP US)
F28D 1/05366 (2013.01 - EP US); **F28F 9/0226** (2013.01 - EP US); **F28F 9/182** (2013.01 - EP US); **Y10T 29/4935** (2015.01 - EP US)

Citation (search report)
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• [A] US 3972371 A 19760803 - PLEGAT ALAIN EDOUARD
• [DA] DE 19857435 A1 19990624 - VALEO THERMIQUE MOTEUR SA [FR]
• [A] WO 0075591 A1 20001214 - LONG MFG LTD [CA]
• [A] US 3021804 A 19620220 - SIMPELAAR CLYDE S

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Designated contracting state (EPC)
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EP 1243885 A2 20020925; EP 1243885 A3 20040211; DE 10114078 A1 20020926; US 2002138981 A1 20021003; US 6971444 B2 20051206

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EP 02002238 A 20020130; DE 10114078 A 20010322; US 8623702 A 20020227