

Title (en)
HEAT EXCHANGER MODULES AND METHOD OF MANUFACTURING

Publication
EP 0183211 A3 19861029 (EN)

Application
EP 85114897 A 19851125

Priority
CH 559984 A 19841123

Abstract (en)
[origin: EP0183211A2] A new method of manufacturing of heat exchangers, and more particularly a method of producing completely integrated heat exchanging modules of variable size and capacity, and heat exchangers provided by such method is disclosed. The method comprises steps of providing a hollow shape (2) comprising a tube (21) with one or more voids, longitudinally extending fins (22) projecting from the tube surface, partial removal of fins and bending of the tube in areas free of fins providing a meander-like loop for heat exchanging medium and a multiplicity of convection chambers (24). The heat exchanging module (2) is also provided with apertures (25,26) constituting inlets and outlets for transverse circulation of heat exchanging media.

IPC 1-7
F28F 1/16; **F28F 1/22**; **F28D 1/047**; **B21D 53/06**

IPC 8 full level
B21D 53/02 (2006.01); **B21D 53/06** (2006.01); **F28D 1/02** (2006.01); **F28D 1/047** (2006.01); **F28F 1/16** (2006.01); **F28F 1/22** (2006.01); **F28F 3/08** (2006.01)

CPC (source: EP)
B21D 53/06 (2013.01); **F28D 1/0246** (2013.01); **F28D 1/0477** (2013.01); **F28F 1/16** (2013.01); **F28F 1/22** (2013.01); **F28F 3/08** (2013.01)

Citation (search report)
• [X] US 3540530 A 19701117 - KRITZER RICHARD W
• [X] US 2347957 A 19440502 - MCCULLOUGH WILLIAM E
• [A] CH 262895 A 19490731 - BECK JOSEF [HU]
• [A] GB 1594136 A 19810730 - SIMPSON V J
• [A] FR 2222624 A1 19741018 - AXLANDER A N A [SE]
• [A] FR 1524182 A 19680510 - RUBANOX SOC

Cited by
AU663168B2; EP4400773A1; ITGE20090054A1; EP0569293A1; ES2065808A2; WO03012358A1; EP2187159A2; WO9423257A1; WO2006066953A3; WO9317290A1; WO2011006858A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0183211 A2 19860604; **EP 0183211 A3 19861029**; JP S61193733 A 19860828

DOCDB simple family (application)
EP 85114897 A 19851125; JP 26271885 A 19851125