

Title (en)

HEAT EXCHANGER, METHOD FOR PRODUCING SAID HEAT EXCHANGER AND AN EXTRUDED COMPOSITE PROFILE USED FOR THE PRODUCTION THEREOF

Title (de)

WÄRMETAUSCHER UND VERFAHREN ZUR HERSTELLUNG EINES WÄRMETAUSCHERS SOWIE STRANGGEPRESSTES VERBUNDPROFIL ZUR VERWENDUNG IN EINEM SOLCHEN VERFAHREN

Title (fr)

ECHANGEUR DE CHALEUR, PROCEDE POUR PRODUIRE UN ECHANGEUR DE CHALEUR, ET PROFILE COMPOSITE EXTRUDE UTILISE DANS UN TEL PROCEDE

Publication

EP 1540223 A1 20050615 (DE)

Application

EP 03807763 A 20030729

Priority

- DE 10243726 A 20020920
- DE 20214564 U 20020920
- EP 0308337 W 20030729

Abstract (en)

[origin: WO2004033947A1] The invention relates to a heat exchanger which can be produced on the base of an extruded composite profile and to a method for producing said heat exchanger. In the preferred embodiment, the inventive heat exchanger is made of aluminium or the alloy thereof and is used, in particular for an air conditioning system or for the cooling system of a car engine. (4,5). The use of the extruded composite profile consisting of individual tubes (20, 30) which are arranged in parallel with respect to each other and interconnected therebetween by means of jointing areas makes it possible to easily produce an internal heat exchanger. For this purpose, the jointing areas are separated at the level of the ends of the composite profile. In the preferred embodiment, the ends (23, 24) of every second individual tube (20) are connected therebetween by means of a coupling element (61, 63), the individual tubes (30) disposed between the individual tubes (20) being connected therebetween by means of another coupling element (62, 64). Said invention also makes it possible to produce an internal heat exchanger in which a coolant alternatively passes therethrough, thereby providing an excellent heat exchange.

IPC 1-7

F16L 9/19; **F28F 1/02**

IPC 8 full level

B21C 37/15 (2006.01); **F25B 40/00** (2006.01); **F28D 7/00** (2006.01); **F28F 1/02** (2006.01); **F28F 1/22** (2006.01); **F25B 9/00** (2006.01)

CPC (source: EP)

B21C 23/142 (2013.01); **B21C 37/151** (2013.01); **F25B 40/00** (2013.01); **F28D 7/0008** (2013.01); **F28F 1/022** (2013.01); **F28F 1/22** (2013.01); **F25B 9/008** (2013.01); **F25B 2309/061** (2013.01); **F28D 2021/0073** (2013.01); **F28F 2255/16** (2013.01); **F28F 2275/02** (2013.01)

Citation (search report)

See references of WO 2004033947A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004033947 A1 20040422; EP 1540223 A1 20050615

DOCDB simple family (application)

EP 0308337 W 20030729; EP 03807763 A 20030729