

Title (en)

CRAFT OUTER SKIN HEAT EXCHANGER AND METHOD FOR MANUFACTURING A CRAFT OUTER SKIN HEAT EXCHANGER

Title (de)

WÄRMETAUSCHER FÜR DIE AUSSENHAUT VON FAHRZEUGEN UND VERFAHREN ZUR HERSTELLUNG EINES WÄRMETAUSCHERS FÜR DIE AUSSENHAUT VON FAHRZEUGEN

Title (fr)

ÉCHANGEUR DE CHALEUR DE PEAU EXTERNE DE NAVIRE ET PROCÉDÉ POUR FABRIQUER UN ÉCHANGEUR DE CHALEUR DE PEAU EXTERNE DE NAVIRE

Publication

EP 2834149 A1 20150211 (EN)

Application

EP 13713427 A 20130328

Priority

- EP 12002472 A 20120405
- US 201261620474 P 20120405
- EP 2013056702 W 20130328
- EP 13713427 A 20130328

Abstract (en)

[origin: WO2013149936A1] A Heat exchanger (100, 200, 300) comprises a plurality of heat transfer modules (10, 20, 30, 40) which are disposed side by side so as to define a multilayer body (102, 202, 302) of the heat exchanger (100, 200, 300), wherein each heat transfer module (10, 20, 30, 40) is provided with at least one heat transfer medium channel (14, 24, 34, 44) designed to allow a flow of a heat-carrying medium therethrough, wherein at least one portion of the multilayer body (102, 202, 302) of the heat exchanger (100, 200, 300) is provided with a curvature which is designed so as to allow the heat exchanger (100, 200, 300) to be used as a curved outer skin section of a craft, and wherein adjacent heat transfer modules (10, 20, 30) of said at least one portion of the multilayer body (102, 202, 302) are arranged with a tilt angle of their central axes (A) towards each other such that each heat transfer module (10, 20, 30, 40) is aligned towards the center of a local osculating circle defined by an outer surface (106, 206, 306) of the heat exchanger (100, 200, 300).

IPC 8 full level

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CPC (source: EP US)

B64C 1/12 (2013.01 - EP US); **B64D 13/00** (2013.01 - EP US); **B64D 33/10** (2013.01 - EP US); **F28F 7/02** (2013.01 - EP); **F28F 21/00** (2013.01 - US); **F28F 2280/00** (2013.01 - US); **Y10T 29/4935** (2015.01 - EP US)

Citation (search report)

See references of WO 2013149936A1

Citation (examination)

- US 2792200 A 19570514 - HUGGINS HOMER D, et al
- US 3941293 A 19760302 - CHARTET ANDRE
- EP 1452819 A1 20040901 - GAC CORP [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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