

Title (en)

Heat exchanger with a three-dimensional internal surface having a coating, process and apparatus for coating a heat exchanger

Title (de)

Dreidimensionale Wärmetauscher grosser innerer Oberfläche mit einer Lackierung sowie Verfahren und Vorrichtung zum Lackieren der Wärmetauscher

Title (fr)

Echangeur de chaleur ayant une surface interne tridimensionnelle revêtue, procédé et appareil pour revêtir un échangeur de chaleur

Publication

EP 0780162 B1 20020508 (DE)

Application

EP 96120589 A 19961220

Priority

- DE 19548594 A 19951223
- DE 19548595 A 19951223

Abstract (en)

[origin: EP0780163A1] The heat exchanger has an aluminium structure which is pre-treated before coating. The coating layer is between 0.5 and 50 micron thick. This is achieved by spinning coated heat exchangers in a centrifuge to remove excess coating and to ensure that no coating clogs the small spaces in the honeycomb. The coating is stoved after application. The inner surfaces of the heat exchanger have the thinnest coating. The outer surfaces can be coated in several layers. The centrifuge is fitted with supports for the heat exchangers positioned so as to protect the vulnerable parts of the structures when spinning. The centrifuge is positioned alongside the dip coating tank.

IPC 1-7

B05D 1/18; **B05C 11/08**; **F28F 19/02**

IPC 8 full level

B05C 11/08 (2006.01); **B05D 1/18** (2006.01); **B05D 3/12** (2006.01); **F28F 19/02** (2006.01); **F28F 19/04** (2006.01); **F28G 13/00** (2006.01); **B05C 3/04** (2006.01)

CPC (source: EP)

B05C 11/08 (2013.01); **B05D 1/18** (2013.01); **B05D 3/12** (2013.01); **F28F 19/04** (2013.01); **F28G 13/00** (2013.01); **B05C 3/04** (2013.01)

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EP 0780163 A1 19970625; **EP 0780163 B1 20010912**; DE 59607674 D1 20011018; DE 59609185 D1 20020613; EP 0780162 A1 19970625; EP 0780162 B1 20020508; ES 2160204 T3 20011101; ES 2174020 T3 20021101

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