

Title (en)

A METHOD OF MAKING A CASTING OF A HEAT EXCHANGER

Title (de)

Verfahren zur Herstellung eines gegossenen Wärmetauscher

Title (fr)

Procédé de fabrication d'un échangeur à chaleur par coulée

Publication

**EP 2949413 A1 20151202 (EN)**

Application

**EP 15275144 A 20150529**

Priority

GB 201409613 A 20140530

Abstract (en)

A casting method involves casting a metal heat exchanger by way of a high pressure die casting process on a core, the core having a salt component soluble to a water solvent and a metal component non-soluble to the solvent. The soluble salt core component is integrally cast on the surface of the metal core component to form a desired shape. During casting the insoluble core component and the soluble core component are directly in contact with molten metal and remain in place within the solidified metallic casting. The method further comprises dissolving the soluble portion of salt with the water solvent to form one or more cavities and/or channels of the desired shape in the heat exchanger casting.

IPC 8 full level

**B22D 19/00** (2006.01); **B22C 9/10** (2006.01); **F24H 1/00** (2006.01)

CPC (source: EP)

**B22C 9/105** (2013.01); **B22C 9/106** (2013.01); **B22D 19/0063** (2013.01); **B22D 19/0072** (2013.01); **B22D 19/0081** (2013.01)

Citation (search report)

[X1] WO 2009053248 A1 20090430 - BEKAERT COMBUST TECHNOL B V [NL], et al

Cited by

CN113441688A; EP3771506A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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**EP 2949413 A1 20151202**; **EP 2949413 B1 20210811**; GB 201409613 D0 20140716

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