

Title (en)  
METHOD FOR PRODUCING A COOLING DEVICE

Title (de)  
VERFAHREN ZUM HERSTELLEN EINER KÜHLVORRICHTUNG

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN DISPOSITIF DE REFROIDISSEMENT

Publication  
**EP 3576894 A1 20191211 (DE)**

Application  
**EP 18700336 A 20180111**

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Abstract (en)  
[origin: WO2018141521A1] The invention relates to a method for producing a cooling device (10), which has at least one hollow body (30) made of a first material having good thermal conduction and a base body made of a second material having good thermal conduction, and a pre-product for the production of a cooling device (10) and a cooling device (10) for an electrical assembly and an electrical assembly having a cooling device of this kind. The hollow body (30) is coated on the outside with a third material and is filled on the inside with the third material, which has a lower melting temperature than the first material and the second material, wherein the filling (5) completely fills the hollow body and is then cooled, wherein the filled hollow body (30) is placed in a die-casting mould, wherein the second material is introduced into the die-casting mould as die casting with a first temperature and flows around the hollow body (30) at least partially, wherein the die casting melts off the third material of the surface coating (36) and melts on the first material of the hollow body (30) so that at least in regions an integral connection is formed between the die casting of the second material, which forms the base body (20), and the first material of the hollow body (30), wherein the die casting of the second material becomes rigid and solid, wherein during the solidification phase, the die casting of the second material heats the filling (5) made of the third material in the interior of the hollow body (30) until the melting temperature is reached, and wherein the melted third material is removed from the hollow body (30) under pressure.

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