

Title (en)  
Method and device for heating a pre-coated steel circuit board

Title (de)  
Verfahren sowie Vorrichtung zur Erwärmung einer vorbeschichteten Platine aus Stahl

Title (fr)  
Procédé et dispositif de chauffage d'une platine préenduite en acier

Publication  
**EP 2570503 A2 20130320 (DE)**

Application  
**EP 12181212 A 20120821**

Priority  
DE 102011053634 A 20110915

Abstract (en)  
Heating pre-coated plate (5) made of steel for producing thermoformed component, preferably a thermoformed bodywork or structural component, comprises (a) heating plate, which is provided with a coating, in an oven (1), where at least partially an intermetallic alloy layer is formed on the plate, and (b) controlling the atmosphere within the oven by supplying pretreated air, where the air is pretreated by drying before supplying. An independent claim is also included for a device for heating pre-coated plate, comprising the oven and at least one supply line (8), which is connected with a heatable inner space of the oven. The supply line is arranged between a drying assembly (7) and the inner space of the oven such that pretreated air passing through the supply line is supplied to the inner space via the drying assembly, where the drying assembly is connected with an air compressor, and the air passing through the drying assembly, which is compressed by the air compressor, is guided into the inner space of the oven via the supply line.

Abstract (de)  
Verfahren sowie Vorrichtung zur Erwärmung einer vorbeschichteten Platine (5) aus Stahl für die Herstellung eines warmgeformten Bauteils, insbesondere für die Herstellung eines warmgeformten Karosserie- oder Strukturbauteils, wobei die mit einer Beschichtung versehene Platine (5) in einem Ofen (1) erwärmt wird, wodurch zumindest bereichsweise eine intermetallische Legierungsschicht auf der Platine (5) gebildet wird. Erfindungsgemäß wird die Atmosphäre innerhalb des Ofens (1) durch die Zufuhr vorbehandelter Luft kontrolliert, wobei die Luft vorbehandelt wird, indem sie vor ihrer Zufuhr getrocknet und bei Bedarf erwärmt wird.

IPC 8 full level  
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