

Title (en)  
METHOD FOR PRODUCING A COMPONENT FROM A STEEL PRODUCT PROVIDED WITH AN AL-SI COATING AND INTERMEDIATE PRODUCT OF SUCH A METHOD

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES BAUTEILS AUS EINEM MIT EINEM AL-SI-ÜBERZUG VERSEHENEN STAHLPRODUKT UND ZWISCHENPRODUKT EINES SOLCHEN VERFAHRENS

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT CONSTITUÉ D'UN PRODUIT EN ACIER POURVU D'UN REVÊTEMENT EN AL-SI, ET PRODUIT INTERMÉDIAIRE D'UN TEL PROCÉDÉ

Publication  
**EP 2240622 A1 20101020 (DE)**

Application  
**EP 09705444 A 20090129**

Priority  
• EP 2009050980 W 20090129  
• DE 102008006771 A 20080130

Abstract (en)  
[origin: WO2009095427A1] The present invention relates to a method for producing a component from a steel product coated with an Al-Si protective coating, and to an intermediate product, which is generated in the course of such a method and can be used for the production of components of the type in question. In the course of the method, the steel product coated with the Al-Si coating is subjected to a first heating step, wherein the temperature and the duration of the heat treatment are set such that the Al-Si coating is only partially pre-alloyed with Fe of the steel product, in a second heating step the steel product is heated to a heating temperature above the Ac1 temperature, the steel product at said heating temperature having an at least partially austenitic structure, wherein the temperature and duration of the second heating step are set such that the Al-Si coating in the course of the second heating step is completely alloyed with Fe of the steel product, the steel product heated to the heating temperature is shaped into the component, and the resulting component is cooled in a controlled manner in order to produce a hardness structure.

IPC 8 full level  
**C23C 2/28** (2006.01); **C23C 10/50** (2006.01)

CPC (source: EP KR US)  
**C23C 2/12** (2013.01 - KR); **C23C 2/261** (2022.08 - KR); **C23C 10/50** (2013.01 - KR); **C23C 26/00** (2013.01 - EP US); **Y10T 428/12757** (2015.01 - EP US)

Citation (search report)  
See references of WO 2009095427A1

Cited by  
CN113166912A; EP3889313A4; WO2018158165A1

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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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
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