

Title (en)

METHOD FOR PRODUCING WORKPIECES FROM LIGHTWEIGHT STEEL HAVING MATERIAL PROPERTIES THAT CAN BE ADJUSTED OVER THE WALL THICKNESS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON WERKSTÜCKEN AUS LEICHTBAUSTAHL MIT ÜBER DIE WANDDICKE EINSTELLBAREN WERKSTOFFEIGENSCHAFTEN

Title (fr)

PROCÉDÉ DE FABRICATION DE PIÈCES EN ACIER LÉGER DE CONSTRUCTION AYANT DES PROPRIÉTÉS DE MATERIAU AJUSTABLES SUIVANT L'ÉPAISSEUR DE PAROI

Publication

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Application

**EP 11715650 A 20110210**

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Abstract (en)

[origin: WO2011113404A1] The invention relates to a method for producing workpieces from an austenitic lightweight steel having material properties that can be adjusted over the wall thickness or strip thickness and having an alloy composition (in weight percent) comprising: C 0.2 to = 1.0; Al 0.05 to < 15.0; Si 0.05 to = 6.0; Mn 9.0 to < 30.0; remainder iron including common steel companion elements, with the optional addition of Cr, Cu, B, Ti, Zr, V, and Nb with Cr = 6.5; Cu = 4.0; Ti+Zr = 0.7; Nb+V = 0.5; B = 0.1. The method according to the invention is characterized in that the workpiece is subjected to a particular decarburizing annealing treatment in an oxidizing atmosphere.

IPC 8 full level

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