

Title (en)

METHOD FOR THE BETA ANNEALING OF A WORKPIECE PRODUCED FROM A TI ALLOY

Title (de)

VERFAHREN ZUM BETA-GLÜHEN EINES AUS EINER TI-LEGIERUNG HERGESTELLTEN WERKSTÜCKES

Title (fr)

PROCÉDÉ POUR LE RECUIT BÊTA D'UNE PIÈCE À USINER FABRIQUÉE À PARTIR D'UN ALLIAGE DE TITANE

Publication

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Application

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Abstract (en)

[origin: WO2010089256A1] A description is given of a method for the heat treatment of a workpiece produced from a titanium alloy for obtaining a fine-grained microstructure by annealing the same above its β -transus temperature $T\beta$. According to the invention, the workpiece is heated in a furnace to a temperature level TH above its β -transus temperature $T\beta$. Reaching the temperature level TH determines the beginning of a predefined holding time, for which the workpiece is kept at this temperature level TH . The workpiece subsequently undergoes a cooling process. To carry out the heat treatment, the furnace temperature TF is set such that, for heating up the workpiece to the temperature level intended for carrying out the holding, it lies above the temperature level TH of the workpiece determining the beginning of the holding time.

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