

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  $\beta$ -transus temperature  $T_B$ . According to the invention, the workpiece is heated in a furnace to a temperature level  $T_H$  above its  $\beta$ -transus temperature  $T_B$ . Reaching the temperature level  $T_H$  determines the beginning of a predefined holding time, for which the workpiece is kept at this temperature level  $T_H$ . The workpiece subsequently undergoes a cooling process. To carry out the heat treatment, the furnace temperature  $T_F$  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  $T_H$  of the workpiece determining the beginning of the holding time.

IPC 8 full level

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Citation (search report)

See references of WO 2010089256A1

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