

Title (en)
METHOD FOR PRODUCING TITANIUM-ALUMINUM COMPONENTS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON TIAL-BAUTEILEN

Title (fr)
PROCÉDÉ DE FABRICATION DE PIÈCES EN TIAL

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Application
EP 14828000 A 20141125

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Abstract (en)
[origin: WO2015081922A1] The invention relates to a method for producing a component from a titanium-aluminum base alloy. The component is intended in particular as a component for turbocharger units of internal combustion engines. The method comprises the following steps: heating cast starting material within the (α + β) phase region to a temperature at which the β phase has at least 5 vol%, forging the heated starting material into a forged blank by means of impact forming at a rate of form change of ≥ 19 1/s, wherein the forged blank has no burrs after the forging, removing the forged blank from the die and cooling the forged blank in a controlled, even manner, wherein the forged blank has a proportion of β /B2 Ti phase of at most 10 vol% after the cooling to room temperature, and further processing the forged blank into the final product.

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