

Title (en)
PROCESS FOR MANUFACTURING A BETA-GAMMA TIAL-BASED ALLOY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER β -TiAl-BASISLEGIERUNG

Title (fr)
PROCÉDÉ DE FABRICATION D'UN ALLIAGE DE BETA-GAMMA TI-AL

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Application
EP 10765988 A 20100928

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Abstract (en)
[origin: WO2011047937A1] The invention relates to a method for producing a β -TiAl base alloy solidifying over the β -phase (β - β -TiAl base alloy) by means of vacuum arc remelting, having the following method steps: smelting a base smelting electrode (2) of a conventional β -TiAl primary alloy having a deficit content of titanium and/or at least one β -stabilizing element in respect of the β - β -TiAl base alloy to be produced in at least one first vacuum arc remelting step, allocating a quantity of titanium and/or β -stabilizing element corresponding to the deficit content of titanium and/or β -stabilizing element to the base smelting electrode (2) in uniform distribution over the length and circumference thereof, and alloying the allocated quantity of titanium and/or β -stabilizing element in the base smelting electrode to form the homogenous β - β -TiAl base alloy in a final vacuum arc remelting step.

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