

Title (en)

Process for producing a workpiece in titanium alloy comprising a modified hot working stage and workpiece thus produced.

Title (de)

Verfahren zur Herstellung eines Werkstückes aus einer Titanlegierung mit einer modifizierten Warmverarbeitungsstufe und hergestelltes Werkstück.

Title (fr)

Procédé de fabrication d'une pièce en alliage de titane comprenant un corroyage à chaud modifié et pièce obtenue.

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0514293A1] With this alloy having the composition (in mass %) Mo equivalent = 5 to 13 and Al equivalent = 3 to 8, Ti and impurities = the remainder, this process comprises a hot preliminary trimming of an ingot of the said alloy giving a hot blank, then a final trimming of at least a portion of this blank, preceded by a preheating above the real beta transition (2) of the said hot-trimmed alloy, the final trimming ratio (S/s) being higher than or equal to 1.5, and dissolving and then annealing treatments are then performed on the blank of an article obtained by final trimming. The process is characterised in that the said blank is cooled from its preheating temperature (8) to a temperature (9) of start of final trimming, situated between the beta transition (2) and the appearance of the alpha phase (7). <??>The invention also relates to the article obtained for a selected composition. The fabricated articles are intended, for example, for compressor discs or aircraft propulsion systems.

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C22F 1/18; **C22C 14/00**

IPC 8 full level

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