

Title (en)

MATERIAL FOR A GAS TURBINE COMPONENT, METHOD FOR PRODUCING A GAS TURBINE COMPONENT AND GAS TURBINE COMPONENT

Title (de)

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Title (fr)

MATÉRIAU POUR COMPOSANT DE TURBINE À GAZ, PROCÉDÉ DE FABRICATION D'UN COMPOSANT DE TURBINE À GAZ ET COMPOSANT DE TURBINE À GAZ

Publication

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Application

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Abstract (en)

[origin: CA2703906A1] The invention relates to a material for a gas turbine component, to be specific a titanium-aluminium-based alloy material, comprising at least titanium and aluminium. According to the invention, the same has a) in the region of room temperature the phase B2-Ti, the phase α 2-Ti3Al and the phase β -TiAl with a proportion of the B2-Ti phase of at most 5% by volume, and b) in the region of the eutectoid temperature the phase β -Ti, the phase α 2-Ti3Al and the phase β -TiAl, with a proportion of the β -Ti phase of at least 10% by volume.

IPC 8 full level

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H. F. CHLADIL ET AL.: "Characterization of a [beta]-Solidified [gamma]-TiAl alloy", BHM BERG- UND HÜTTENMÄNNISCHE MONATSHEFTE, vol. 151, no. 9, 1 September 2006 (2006-09-01), pages 356 - 361, XP055008248, ISSN: 0005-8912, DOI: 10.1007/BF03165196

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