

Title (en)

Turbine blade, manufacturing method of turbine blade, and strip judging method of a thermal barrier coat

Title (de)

Turbinenschaufel, Herstellungsverfahren einer Turbinenschaufel, sowie Beurteilungsverfahren für das Ablösen einer Wärmedämmschicht

Title (fr)

Aube de turbine, procédé de fabrication d'une aube de turbine, et procédé d'évaluation du détachement d'une couche de protection thermique

Publication

EP 1318273 A2 20030611 (EN)

Application

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Priority

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Abstract (en)

There is disclosed a turbine blade comprising a turbine blade main body 10 with a blade-shaped section and a thermal barrier coat 20 as an insulating layer. The turbine blade main body 10 includes an internal air gap 12 disposed inside so that a coolant gas passes and a plurality of coolant gas ports 13 connected to the internal air gap and disposed in the outer peripheral surface. The thermal barrier coat 20 is coated with the outer peripheral surface of the turbine blade main body. The thermal barrier coat fills in at least some of the coolant gas ports. Thereby, a temperature of a high-temperature gas is raised and the turbine blade can be run. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

EP1321629A3; EP1669545A1; EP1655454A1; EP3054105A1; US9718735B2; US7909581B2; US7186091B2; WO2006061267A1; EP2935836B1

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