Title (en)

COOLED TURBINE BLADE FOR A GAS TURBINE AND USE OF SUCH A TURBINE BLADE

Title (de)

GEKÜHLTE TURBINENSCHAUFEL FÜR EINE GASTURBINE UND VERWENDUNG EINER SOLCHEN TURBINENSCHAUFEL

Title (fr)

AUBE DE TURBINE REFROIDIE POUR TURBINE A GAZ ET UTILISATION D'UNE AUBE DE TURBINE DE CE TYPE

Publication

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Application

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Abstract (en)

[origin: WO2007012592A1] The invention relates to a turbine blade (50) for a gas turbine (1), comprising a blade root (52), adjoining which one after the other are a platform region having a transversely running platform (54) and then a blade profile (56) curved in the longitudinal direction, comprising at least one cavity (58) which is open on the root side and through which a coolant (K) can flow and which extends through the blade root (32) and the platform region into the blade profile (36). The cavity (58) is surrounded by an inner wall (59), on the surface of which structural elements (72, 73) influencing the coolant (60) are provided. In order to prolong the service life of such a turbine blade (50), the invention proposes that a section (A), lying at least in the blade profile (56) and adjoining the platform region, of the surface of the inner wall (59) be free of structural elements (72, 73). Such a turbine blade (50) can preferably be used in a stationary gas turbine.

IPC 8 full level

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