

Title (en)
Turbine blade and turbine

Title (de)
Turbinenschaufel und Turbine

Title (fr)
Aube de turbine et turbine

Publication
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Application
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Abstract (en)
[origin: WO2016030449A1] The invention relates to a turbine blade (1) with an internally cooled turbine blade airfoil (3), in which a hollow space (10) is divided by rib elements (11, 12) in at least one cooling channel (13) carrying a coolant (14), wherein a recess of material (29), which is arranged next to at least one rib element (11, 12) on a turbine blade airfoil wall (5), is embodied such that tensions occurring within the turbine blade airfoil (3) can be reduced in a region (28) surrounding the at least one rib element (11, 12).

Abstract (de)
Die Erfindung betrifft eine Turbinenschaufel (1) mit einem innengekühlten Turbinenschaufelblatt (3), in welchem ein Hohlraum (10) durch Rippelemente (11, 12) in wenigstens einen Kühlmittel (14) führenden Kühlkanal (13) unterteilt ist, wobei eine neben wenigstens einem der Rippelemente (11, 12) an einer Turbinenschaufelblattwand (5) angeordnete Materialausnehmung (29) derart ausgestaltet ist, dass innerhalb des Turbinenschaufelblatts (3) auftretende Spannungen in einem Umgebungsbereich (28) des wenigstens einen Rippelements (11, 12) reduzierbar sind.

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Citation (search report)

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