

Title (en)  
AIRFOIL FOR A TURBINE BLADE

Title (de)  
SCHAUFELBLATT FÜR EINE TURBINENSCHAUFEL

Title (fr)  
PALE D'AUBE POUR UNE AUBE DE TURBINE

Publication  
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Application  
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Abstract (en)  
[origin: WO2019211427A1] The invention relates to an aerofoil (16) for a turbine blade, comprising a leading edge (18) onto which a hot gas (S) can flow and from which a suction-side wall (17) and a pressure-side wall (19) extend to a trailing edge (20) of the aerofoil (16), the aerofoil (16) extending in a direction transverse thereto from a root-side end (21) having an aerofoil height of 0% to a tip-side end (23) having an aerofoil height of 100%, and having at least two rows (R1, R2) of cooling holes (22) arranged along the leading edge, which cooling holes are at a mutual spacing (A) which can be measured perpendicularly to the leading edge. In order to provide a turbine blade which can be used, with reduced cooling complexity, for additional reliable cooling of the leading edge (18) in various operating conditions, according to the invention the at least two rows (R1, R2) of cooling holes (22) are arranged at least in part in a wavy line along the leading edge (18).

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