

Title (en)

REINFORCEMENT AND COOLING STRUCTURE OF A TURBINE BLADE

Title (de)

VERSTEIFUNGS- UND KÜHLSTRUKTUR EINER TURBINENSCHAUFEL

Title (fr)

STRUCTURE DE RIGIDIFICATION ET DE REFROIDISSEMENT D'UNE AUBE DE TURBINE

Publication

**EP 1266128 A1 20021218 (DE)**

Application

**EP 01927732 A 20010315**

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Abstract (en)

[origin: WO0171164A1] The invention relates to a blade (13; 14) for a turbine (10) which has at least one channel (22) that can be impinged with a coolant fluid. Several turbulators (23) which improve the heat exchange between the wall (19; 20) and the coolant fluid are provided on at least one wall (19; 20) of the channel (22). In addition, the turbulators (23) reinforce the wall (19; 20) and converge. As a result of said reinforcement, the thickness (d) of the wall (19; 20) in the area between the turbulators (23) can be reduced.

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IPC 8 full level

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