

Title (en)

VANE WHEEL OF A TURBINE COMPRISING A VANE AND AT LEAST ONE COOLING CHANNEL

Title (de)

SCHAUFELRAD EINER TURBINE MIT EINER SCHAUFEL UND MINDESTENS EINEM KÜHLKANAL

Title (fr)

ROUE A AUBES D'UNE TURBINE PRESENTANT UNE AUBE ET AU MOINS UN CANAL REFRIGERANT

Publication

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Application

EP 05766734 A 20050613

Priority

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Abstract (en)

[origin: EP1614861A1] The blade wheel of a turbine has at least one blade with its root (12) mounted on a disc, and at least one cooling passage is located between the wheel disc and blade root. A number of turbulators (26) is formed on at least one of the walls of the cooling passage and are designed in such a way that they increase the turbulence of a cooling fluid flowing through the cooling passage. The turbulators are formed on the underside (24) of the blade root platform (16). Independent claims are also included for the following: (A) a blade of a blade wheel of a turbine, especially a gas turbine, with turbulators on the underside of the blade root platform; and (B) a method for the manufacturing of a blade in which the turbulators can be formed in a working process forming the blade aerofoil.

IPC 8 full level

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CPC (source: EP US)

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