

Title (en)

Turbine wheel comprising turbine blades having turbulators on the platform radially inner surface.

Title (de)

Schaufelrad einer Turbine mit einer Schaufel und mindestens einem Kühlkanal

Title (fr)

Roue de turbine comprenant des aubes de turbine avec turbulateurs sur la surface radiale interne de la plate-forme

Publication

EP 1614861 A1 20060111 (DE)

Application

EP 04016237 A 20040709

Priority

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Abstract (en)

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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Citation (search report)

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