

Title (en)
ROTOR BLADE FOR A GAS TURBINE WITH A COOLED SWEEP EDGE

Title (de)
LAUFSCHAUFEL FÜR EINE GASTURBINE MIT GEKÜHLTER ANSTREIFKANTE

Title (fr)
AUBE MOBILE POUR TURBINE À GAZ AVEC BORD DE FROTTEMENT REFROIDI

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Application
EP 17707889 A 20170301

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Abstract (en)
[origin: WO2017153219A1] The invention relates to a rotor blade for a gas turbine, comprising a blade (1) extending in a radial direction, with a blade body (2) comprising a peripheral wall with a pressure-side wall section (3a) and a suction-side wall section (3b), a plate-shaped crown base connected to the peripheral wall in the region of the blade tip, and a sweep edge extending along the peripheral wall, the peripheral wall and the crown base defining a cavity in the blade body, the sweep edge being aligned on the outer side with the peripheral wall and protruding radially over the crown base, and cooling channels are embodied in the blade body, extending from the cavity to cooling fluid outlets (12) provided in the sweep edge, at least one recess (9) being formed in the front surface (7b) of the sweep edge, into which at least some of the cooling channels flow such that the cooling fluid outlets are entirely arranged in a bottom region (9a) of the recess (9).

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