Title (en)

ROTOR BLADE FOR A GAS TURBINE WITH COOLED RUBBING EDGE

Title (de)

LAUFSCHAUFEL FÜR EINE GASTURBINE MIT GEKÜHLTER ANSTREIFKANTE

Title (fr)

AUBE DE TURBINE A GAZ COMPRENANT UNE ARETE DE FRICTION REFROIDIE

Publication

EP 3400373 B1 20210428 (DE)

Application

EP 17707889 A 20170301

Priority

- EP 16159107 A 20160308
- EP 2017054734 W 20170301

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 periperal 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 protuding 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).

IPC 8 full level

F01D 5/20 (2006.01); **F01D 11/10** (2006.01)

CPC (source: EP US)

F01D 5/187 (2013.01 - US); **F01D 5/20** (2013.01 - EP); F01D 5/186 (2013.01 - US); F01D 5/20 (2013.01 - US); F05D 2260/20 (2013.01 - EP); F05D 2260/202 (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3216983 A1 20170913; CN 209976583 U 20200121; EP 3400373 A1 20181114; EP 3400373 B1 20210428; US 11136892 B2 20211005; US 2020386104 A1 20201210; WO 2017153219 A1 20170914

DOCDB simple family (application)

EP 16159107 A 20160308; CN 201790000656 U 20170301; EP 17707889 A 20170301; EP 2017054734 W 20170301; US 201716081205 A 20170301