

Title (en)

TURBINE BLADE HAVING A GROOVE IN THE CROWN BASE

Title (de)

TURBINENSCHAUFEL MIT NUT IM KRONENBODEN

Title (fr)

AUBE DE TURBINE COMPRENANT UNE RAINURE DANS LA BASE DE COURONNE

Publication

EP 3341568 A1 20180704 (DE)

Application

EP 16762993 A 20160830

Priority

- EP 15187014 A 20150928
- EP 2016070352 W 20160830

Abstract (en)

[origin: WO2017054996A1] The invention relates to a turbine blade (01) for a gas turbine, comprising a blade (03), which (03) comprises a blade wall (04) and a crown base (07) arranged at the free end of the blade (03). The blade wall (04) surrounds at least a first and a second flow chamber (11, 12), between which (11, 12) a first separating wall (08) is arranged, wherein a free through-hole (14) for connecting the first and the second flow chambers (11, 12) is present between the first separating wall (08) and the crown base (07). Furthermore, at least one cooling air opening is present in the crown base (07). It is essential to the present invention that the cooling air opening is designed as a relief groove (21, 22a, 22b, 22c, 23), which extends to a point over the through-hole (14) at least in some sections.

IPC 8 full level

F01D 5/18 (2006.01)

CPC (source: EP US)

F01D 5/187 (2013.01 - EP US); **F01D 5/20** (2013.01 - US); **F05D 2220/32** (2013.01 - US); **F05D 2240/307** (2013.01 - EP US); **F05D 2260/20** (2013.01 - EP US)

Citation (search report)

See references of WO 2017054996A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3147456 A1 20170329; EP 3341568 A1 20180704; EP 3341568 B1 20210324; US 2018298764 A1 20181018; WO 2017054996 A1 20170406

DOCDB simple family (application)

EP 15187014 A 20150928; EP 16762993 A 20160830; EP 2016070352 W 20160830; US 201615762687 A 20160830