

Title (en)

BLADE FOR A GAS TURBINE AND ELECTRIC POWER PRODUCTION PLANT COMPRISING SAID BLADE

Title (de)

SCHAUFEL FÜR EINE GASTURBINE UND STROMPRODUKTIONSANLAGE MIT BESAGTER SCHAUFEL

Title (fr)

PALE DE TURBINE À GAZ ET INSTALLATION DE PRODUCTION D'ÉNERGIE ÉLECTRIQUE COMPRENANT LADITE PALE

Publication

EP 3828388 A1 20210602 (EN)

Application

EP 19212001 A 20191128

Priority

EP 19212001 A 20191128

Abstract (en)

A blade for a gas turbine (5) is provided with an airfoil (18) extending along a span wise direction (S) from a base (21) to a tip (22); the airfoil (18) comprising an outer wall (23) defining a leading edge (27), a trailing edge (28), a pressure side (24) and a suction side (25); the airfoil (18) enclosing at least one cooling duct (36; 36a, 36b, 36c) extending along the span wise direction (S) and fed, in use, with a cooling fluid; the tip (22) being provided with a rim (29) following the tip cross sectional profile at least along the leading edge (27), the suction side (25) and the pressure side (24); the airfoil (18) is provided with a cooling channel (42) connecting the at least one cooling duct (36; 36a) with an opening (44) at the trailing edge (28) and with at least one primary rim cooling hole (45) connected to the cooling channel (42) and arranged on the rim (29).

IPC 8 full level

F01D 5/20 (2006.01)

CPC (source: CN EP)

F01D 5/186 (2013.01 - CN); **F01D 5/20** (2013.01 - EP); **F05D 2240/304** (2013.01 - EP); **F05D 2240/307** (2013.01 - EP); **F05D 2260/202** (2013.01 - EP)

Citation (applicant)

- US 2017284207 A1 20171005 - NAIK SHAILENDRA [CH], et al
- US 2005232771 A1 20051020 - HARVEY NEIL W [GB], et al

Citation (search report)

- [X] EP 3088675 A1 20161102 - GEN ELECTRIC [US]
- [A] EP 2161412 A2 20100310 - ROLLS ROYCE PLC [GB]
- [A] EP 3118413 A1 20170118 - UNITED TECHNOLOGIES CORP [US]
- [A] EP 0319758 A1 19890614 - GEN ELECTRIC [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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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