

Title (en)
COOLED GAS TURBINE BLADE

Title (de)
GEKÜHLTE GASTURBINENSCHAUFEL

Title (fr)
AUBE REFROIDIE DE TURBINE À GAZ

Publication
EP 3412867 A1 20181212 (EN)

Application
EP 17174866 A 20170607

Priority
EP 17174866 A 20170607

Abstract (en)
A blade for a gas turbine (5) is provided with an airfoil (18) having a leading edge (27), a trailing edge (28), a pressure side (24) and a suction side (25); the airfoil (18) comprising an outer wall (30) and an inner wall (31) substantially enclosed by the outer wall (30); and with a cooling arrangement (29) which comprises a suction side cooling path (31a) defined at least partially along the suction side (25) between the outer wall (30) and the inner wall (31); the suction side cooling path (31a) having at least one suction side inlet (40) and at least one suction side discharge arrangement (41); the suction side inlet (40) being arranged closer to the trailing edge (28) than the suction side discharge arrangement (41).

IPC 8 full level
F01D 5/18 (2006.01)

CPC (source: CN EP)
F01D 5/186 (2013.01 - CN); **F01D 5/187** (2013.01 - EP); **F01D 5/186** (2013.01 - EP); **F05D 2260/22141** (2013.01 - EP)

Citation (applicant)
• US 8231349 B2 20120731 - NAIK SHAILENDRA [CH], et al
• EP 2107215 A1 20091007 - ALSTOM TECHNOLOGY LTD [CH]

Citation (search report)
• [XA] US 7862299 B1 20110104 - LIANG GEORGE [US]
• [XA] US 2005265837 A1 20051201 - LIANG GEORGE [US]
• [X] US 8366392 B1 20130205 - LIANG GEORGE [US]
• [X] US 8162609 B1 20120424 - LIANG GEORGE [US]
• [X] US 8585365 B1 20131119 - LIANG GEORGE [US]
• [X] US 2003044277 A1 20030306 - BOURRIAUD ISABELLE [FR], et al

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EP3597859B1

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 3412867 A1 20181212; **EP 3412867 B1 20240103**; **EP 3412867 B8 20240214**; CN 108999646 A 20181214

DOCDB simple family (application)
EP 17174866 A 20170607; CN 201810580811 A 20180607