

Title (en)
TURBINE BLADE AND TURBINE

Title (de)
TURBINENSCHAUFEL UND TURBINE

Title (fr)
AUBE DE TURBINE ET TURBINE

Publication
EP 3134621 B1 20181226 (DE)

Application
EP 15725320 A 20150527

Priority
• EP 14172768 A 20140617
• EP 2015061658 W 20150527

Abstract (en)
[origin: WO2015193068A1] The invention relates to a turbine blade (1) having an internally cooled turbine airfoil (3), which forms at least one cooling air main channel (19) extending in the longitudinal direction (18) of the turbine blade (1) in order to guide cooling air (23) from a cooling air main channel inlet arranged in a region (24) of a turbine blade root through the turbine blade airfoil (3) in the direction (25) of a turbine blade tip. Inside the at least one cooling air main channel (19), a hollow guide device (3) for guiding additional cooling air (36) is arranged, through which, independently from the cooling air main channel (19), additional cooling air (36) can be introduced into the turbine blade airfoil (3) downstream behind the cooling air main channel inlet.

IPC 8 full level
F01D 5/18 (2006.01)

CPC (source: EP)
F01D 5/18 (2013.01); **F01D 5/189** (2013.01)

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 2957724 A1 20151223; EP 3134621 A1 20170301; EP 3134621 B1 20181226; WO 2015193068 A1 20151223

DOCDB simple family (application)
EP 14172768 A 20140617; EP 15725320 A 20150527; EP 2015061658 W 20150527