

Title (en)
ROTOR BLADE AND CORRESPONDING GAS TURBINE

Title (de)
ROTORBLATT UND ZUGEHÖRIGE GASTURBINE

Title (fr)
PALE DE ROTOR ET TURBINE À GAZ ASSOCIÉE

Publication
EP 3088674 A1 20161102 (EN)

Application
EP 16166812 A 20160425

Priority
US 201514699308 A 20150429

Abstract (en)
A rotor blade includes an airfoil 106 having a blade tip 120 and a tip cavity 134 formed at the blade tip. The blade tip defines a radially outer surface of the airfoil. The tip cavity includes a tip cap 136 that is recessed radially inwardly from the tip and surrounded by pressure 114 and suction 116 side walls of the airfoil. The tip cap is in fluid communication with an internal cavity defined within the airfoil. A portion of the suction and/or the pressure side wall that define the tip cavity extends obliquely outwardly from the tip cavity. A plurality of slots 148 is defined in the suction and/or the pressure side wall along the radially outer surface proximate to the trailing edge of the airfoil.

IPC 8 full level
F01D 5/20 (2006.01)

CPC (source: CN EP US)
F01D 5/141 (2013.01 - CN); **F01D 5/189** (2013.01 - CN); **F01D 5/20** (2013.01 - EP US); **F05D 2250/314** (2013.01 - EP US); **F05D 2250/324** (2013.01 - EP US); **F05D 2250/713** (2013.01 - EP US)

Citation (search report)

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EP3138997A1

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

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