

Title (en)

Air baffle for the cooling circuit of turbine blades

Title (de)

Umlenkeinrichtung der Luft des K hlluftkreislaufs von Turbinenschaufeln

Title (fr)

D flecteur d'air pour circuit de refroidissement pour aube de turbine   gaz

Publication

EP 1760261 B1 20080305 (FR)

Application

EP 06119232 A 20060821

Priority

FR 0508740 A 20050825

Abstract (en)

[origin: EP1760261A1] The blade has an internal cooling circuit with a cavity (24) extending radially between a blade base (12) and a blade tip (14). An air inlet aperture (34) is held at a radial end of the cavity and an air outlet orifice opening into the cavity. An air deflector (48) is shaped and dimensioned with an inclined ramp to project the air flowing along a wall (24a) of the cavity towards an opposite wall (24b). The deflector is held based on the flow that is centrifugal or centripetal, to project the air circulating in the cavity towards the wall of the cavity which is disposed on a concave side (20). Independent claims are also included for the following: (1) a gas turbine comprising a set of blades (2) a turbine engine comprising a gas turbine.

IPC 8 full level

F01D 5/14 (2006.01); **F01D 5/18** (2006.01)

CPC (source: EP US)

F01D 5/187 (2013.01 - EP US); **F05D 2260/2212** (2013.01 - EP US); **F05D 2260/22141** (2013.01 - EP US)

Cited by

CN105849368A; US9551229B2; WO2015100082A1

Designated contracting state (EPC)

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EP 1760261 A1 20070307; **EP 1760261 B1 20080305**; CA 2557112 A1 20070225; CA 2557112 C 20131210; DE 602006000641 D1 20080417; DE 602006000641 T2 20090326; ES 2303312 T3 20080801; FR 2890103 A1 20070302; US 2007048136 A1 20070301; US 7192251 B1 20070320

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