

Title (en)

Turbine blade, use of the blade and manufacturing method thereof

Title (de)

Turbinenschaufel, Verwendung einer Turbinenschaufel und Verfahren zur Herstellung einer Turbinenschaufel

Title (fr)

Aube de turbine, utilisation et méthode de fabrication de l'aube de turbine

Publication

**EP 1717416 A1 20061102 (DE)**

Application

**EP 05009054 A 20050425**

Priority

EP 05009054 A 20050425

Abstract (en)

A separate throttle element (39) with adjustable throttle openings (41) is arranged into a cavity (47) formed between the convex suction face wall (35) and a concave compression face wall (37) in a wing-like blade airfoil (29). The throttle element facilitates coolant (51) flow between adjacent cavities or from within the cavity to the outside. A support rib (38) preferably with a connection channel is arranged in the cavity and in parallel to the throttle element. Independent claims are included for the following: (1) a use of a turbine blade; and (2) a manufacturing method of a turbine blade.

IPC 8 full level

**F01D 5/18** (2006.01)

CPC (source: EP)

**F01D 5/187** (2013.01); **F01D 5/188** (2013.01); **F05D 2230/237** (2013.01); **F05D 2250/323** (2013.01); **F05D 2260/202** (2013.01)

Citation (search report)

- [X] US 5511937 A 19960430 - PAPAGEORGIOU THEODORE [US]
- [X] DE 19961565 A1 20010621 - ABB ALSTOM POWER CH AG [CH]
- [X] US 4437810 A 19840320 - PEARCE ERIC W J [GB]

Cited by

EP2489837A1; EP3306036A1; US10975703B2; US10583489B2; US10683763B2; EP3396108A1; EP3315228B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

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