

Title (en)

Airfoil with array of cooling pins

Title (de)

Schaufelprofil mit Anordnung von Kühlstiften

Title (fr)

Profil d'aube avec agencement de broches de refroidissement

Publication

EP 2565382 A3 20150422 (EN)

Application

EP 12180753 A 20120816

Priority

US 201113221009 A 20110830

Abstract (en)

[origin: EP2565382A2] The present application provides an airfoil (100) with a cooling flow (130) therein. The airfoil (100) may include an internal cooling passage (110), a number of cooling holes (120) in communication with the internal cooling passage (110), and a number of pin-fins (150) positioned within the internal cooling passage (110). The pin-fins (150) are arranged with one or more turning openings (170) and one or more guiding openings (180) so as to direct the cooling flow (130) towards the cooling holes (120).

IPC 8 full level

F01D 5/18 (2006.01)

CPC (source: EP US)

F01D 5/188 (2013.01 - EP US); **F05D 2240/304** (2013.01 - EP US); **F05D 2260/2212** (2013.01 - EP US); **F05D 2260/2214** (2013.01 - EP US)

Citation (search report)

- [X] US 3858290 A 19750107 - ALBANI PETER E
- [XY] EP 1113145 A1 20010704 - ALSTOM POWER SCHWEIZ AG [CH]
- [Y] EP 0034961 A1 19810902 - SNECMA [FR]
- [Y] WO 0131171 A1 20010503 - PRATT & WHITNEY CANADA [CA]

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 2565382 A2 20130306; EP 2565382 A3 20150422; CN 102966380 A 20130313; US 2013052036 A1 20130228

DOCDB simple family (application)

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