

Title (en)

Impingement cooling of a turbomachine part and a manufacturing method of an impingement baffle

Title (de)

Prallkühlung eines Bauteils einer Strömungsmaschine und ein Verfahren zur Herstellung eines Prallkühlelementes

Title (fr)

Refroidissement par impact d'un élément d'une turbomachine et méthode de fabrication d'une plaque de refroidissement par impact

Publication

EP 1635042 A1 20060315 (DE)

Application

EP 04021701 A 20040913

Priority

EP 04021701 A 20040913

Abstract (en)

The part (41) has a hot gas admitting external wall (43) whose rear side (45) is distanced to an impingement cooling unit provided with an aperture (49) under the formation of an interspace (51). The aperture has an admission side opening that is provided for adjusting an impingement cooling stream, where the opening has a cross sectional area that is larger than a cross sectional area of a discharge side opening of the aperture. Independent claims are also included for the following: (A) a turbo-machine with a hot gas admitting component (B) a method for manufacturing a impingement cooling units.

IPC 8 full level

F01D 25/12 (2006.01)

CPC (source: EP)

F01D 25/12 (2013.01); **F05D 2250/232** (2013.01); **F05D 2250/292** (2013.01); **F05D 2250/75** (2013.01); **F05D 2260/201** (2013.01)

Citation (search report)

- [XA] US 6000908 A 19991214 - BUNKER RONALD SCOTT [US]
- [X] US 2003021685 A1 20030130 - FRIED REINHARD [CH], et al
- [X] DE 10202783 A1 20030731 - ALSTOM SWITZERLAND LTD [CH]
- [X] US 3844343 A 19741029 - BURGGRAF F
- [X] US 5083422 A 19920128 - VOGT ROBERT L [US]
- [A] GB 1285369 A 19720816 - ROLLS ROYCE

Cited by

GB2492374A; FR2955890A1; US11112113B2; EP3575688B1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1635042 A1 20060315

DOCDB simple family (application)

EP 04021701 A 20040913