

Title (en)

COOLED COMPONENT FOR A GAS TURBINE

Title (de)

GEKÜHLTES BAUELEMENT FÜR EINE GASTURBINE

Title (fr)

ÉLÉMENT STRUCTURAL REFROIDI POUR TURBINE À GAZ

Publication

EP 2384392 A1 20111109 (DE)

Application

EP 10701375 A 20100128

Priority

- EP 2010051018 W 20100128
- CH 1402009 A 20090130

Abstract (en)

[origin: WO2010086381A1] In order to cool a wall (12a), the front side of which is thermally loaded, a cooled component (10) for a gas turbine comprises a plurality of pins (15) that are distributed in a planar arrangement (17) on the rear side of the wall (12a) and project from the wall, and means (14, 16) for producing jets of a cooling medium, said jets being directed to the rear side of the wall (12a) in the region of the pins (15) and being used for impingement cooling. In order to better cool such a component, the pins (15) are more densely distributed in critical zones (Ac) of the component than in the remaining regions.

IPC 8 full level

F01D 5/18 (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP US)

F01D 5/187 (2013.01 - EP US); **F01D 25/12** (2013.01 - EP US); **F05D 2240/81** (2013.01 - EP US); **F05D 2260/201** (2013.01 - EP US)

Cited by

US11739935B1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010086381 A1 20100805; CH 700319 A1 20100730; EP 2384392 A1 20111109; EP 2384392 B1 20170531; EP 2384392 B2 20240904; RU 2011135942 A 20130310; RU 2539950 C2 20150127; US 2012020768 A1 20120126; US 8444376 B2 20130521

DOCDB simple family (application)

EP 2010051018 W 20100128; CH 1402009 A 20090130; EP 10701375 A 20100128; RU 2011135942 A 20100128; US 201113192656 A 20110728