

Title (en)

A GAS TURBINE SECTION WITH IMPROVED STRUT DESIGN

Title (de)

GASTURBINENABSCHNITT MIT VERBESSERTER STÜTZENKONSTRUKTION

Title (fr)

SECTION DE TURBINE À GAZ PRÉSENTANT UNE MEILLEURE CONCEPTION D'ENTRETOISE

Publication

**EP 3241989 A1 20171108 (EN)**

Application

**EP 16168422 A 20160504**

Priority

EP 16168422 A 20160504

Abstract (en)

A gas turbine section for an annular gas path is presented. The annular gas path is defined through a gas turbine engine. The gas turbine section includes an inner and an outer gas path walls that are concentrically arranged about an axis and adapted to form together at least a part of the annular gas path defined through the gas turbine engine. The gas turbine section includes at least one strut extending generally radially relative to the axis from the inner to the outer gas path walls. The strut has a leading edge, adapted to be positioned upstream relative to the annular gas path, and a trailing edge, adapted to be positioned downstream relative to the annular gas path. The strut further includes a cut-out. The cut-out is positioned at the trailing edge and is contiguous with the inner gas path wall or the outer gas path wall. Corresponding methods of designing and manufacturing a gas turbine section.

IPC 8 full level

**F01D 5/14** (2006.01); **F01D 9/04** (2006.01); **F01D 9/06** (2006.01); **F01D 25/16** (2006.01)

CPC (source: EP)

**F01D 5/141** (2013.01); **F01D 9/041** (2013.01); **F01D 9/065** (2013.01); **F01D 25/162** (2013.01); **F05D 2240/122** (2013.01); **F05D 2260/941** (2013.01)

Citation (search report)

- [X] US 2011214433 A1 20110908 - FEINDEL DAVID T [US], et al
- [X] EP 2602441 A1 20130612 - ALSTOM TECHNOLOGY LTD [CH]
- [X] WO 2015142200 A1 20150924 - GEN ELECTRIC [US], et al
- [A] EP 2441918 A1 20120418 - SIEMENS AG [DE]

Cited by

DE102017218886A1; EP3715585A1; US10781705B2; US10844726B2; US11655730B2; US11739658B2; WO2021188114A1

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 3241989 A1 20171108**; WO 2017190978 A1 20171109

DOCDB simple family (application)

**EP 16168422 A 20160504**; EP 2017059741 W 20170425