

Title (en)

Axial segmented vane support for a gas turbine

Title (de)

Axial segmentierter Leitschaufelträger für einen Gasturbine

Title (fr)

Support d'aubes statorique axialement segmenté d'une turbine à gaz

Publication

EP 2184445 A1 20100512 (DE)

Application

EP 08019365 A 20081105

Priority

EP 08019365 A 20081105

Abstract (en)

The support (1) has axial segments (24) designed as a grid pipe structure (26) and casting parts (30), where the axial segments are welded with each other for forming a fixed structure. The grid pipe structure is provided with a sheet metal covering (28) at inner- and outer sides. The sheet metal covering is provided with cooling air holes. Material of the axial segments and/or the sheet metal covering is adapted to local thermal and mechanical loads during operation. Upper and lower segments are connected with each other by a flange.

Abstract (de)

Ein Leitschaufelträger (1), insbesondere für eine Gasturbine (101), der aus einer Anzahl von Axialsegmenten (24) besteht, soll unter Erhaltung der betrieblichen Sicherheit eine technisch einfachere Konstruktion und flexiblere Anpassung an das am Leitschaufelträger vorherrschende Temperaturprofil erlaubt. Dazu ist mindestens ein Axialsegment (24) als Gitterrohrstruktur (26) ausgelegt.

IPC 8 full level

F01D 9/04 (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP US)

F01D 9/041 (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US)

Citation (search report)

- [A] GB 1051244 A
- [A] CH 417637 A 19660731 - LICENTIA GMBH [DE]
- [A] WO 2005008032 A1 20050127 - MTU AERO ENGINES GMBH [DE], et al
- [A] GB 2378730 A 20030219 - ROLLS ROYCE PLC [GB]

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2184445 A1 20100512; CN 102216568 A 20111012; CN 102216568 B 20151125; EP 2342427 A1 20110713; EP 2342427 B1 20130619; JP 2012507652 A 20120329; JP 5596042 B2 20140924; PL 2342427 T3 20131129; RU 2011122612 A 20121220; RU 2508450 C2 20140227; US 2011268580 A1 20111103; US 8870526 B2 20141028; WO 2010052050 A1 20100514

DOCDB simple family (application)

EP 08019365 A 20081105; CN 200980144348 A 20090910; EP 09824439 A 20090910; EP 2009061744 W 20090910; JP 2011533644 A 20090910; PL 09824439 T 20090910; RU 2011122612 A 20090910; US 200913127295 A 20090910