

Title (en)

Assembly for axial protection on rotor blades in a rotor of a gas turbine

Title (de)

Anordnung zur Axialsicherung von Laufschaufeln in einem Rotor einer Gasturbine

Title (fr)

Dispositif de sécurité axiale sur aubes mobiles d'un rotor d'une turbine à gaz

Publication

**EP 2088287 A1 20090812 (DE)**

Application

**EP 08002388 A 20080208**

Priority

EP 08002388 A 20080208

Abstract (en)

The assembly has rotor blade retention slots running in an axial direction of a rotor at an outer periphery of a shaft collar. A radially outwardly open groove is arranged at a front-sided side surface of the collar in an area of the slots. A sheet-like sealing element (16) is seated in the groove for axial securing of rotor blades and forms a front-sided sealing ring in a peripheral direction. The sealing element has a metal strip (30) with a bracket (64) that is form-fittingly laid at the blades or the collar, where the metal strip is made of shape memory alloy.

Abstract (de)

Die Erfindung betrifft eine Anordnung (10) zur Axialsicherung von Laufschaufeln (14) eines Rotors (23) einer Gasturbine. Die Anordnung umfasst ein an der stirnseitigen Fläche des Rotors (23) angeordnetes Dichtelement (16), welches mittels eines Blechstreifens aus einer Formgedächtnis-Legierung besonders zuverlässig am Rotor (23) befestigt werden kann.

IPC 8 full level

**F01D 5/30** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP US)

**F01D 5/323** (2013.01 - EP US); **F04D 29/322** (2013.01 - EP US); **F05D 2300/505** (2013.01 - EP US)

Citation (applicant)

WO 2007028703 A1 20070315 - SIEMENS AG [DE], et al

Citation (search report)

- [DY] WO 2007028703 A1 20070315 - SIEMENS AG [DE], et al
- [Y] FR 2715968 A1 19950811 - SNECMA [FR]
- [A] DE 102004030965 A1 20060209 - FAG KUGELFISCHER AG & CO OHG [DE]
- [A] EP 0258754 A2 19880309 - MTU MUENCHEN GMBH [DE]
- [A] JP S6469702 A 19890315 - HITACHI LTD
- [A] WO 02066844 A1 20020829 - SIEMENS AG [DE], et al

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CN112302766A; EP2372095A1

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 2088287 A1 20090812**; CN 101939509 A 20110105; CN 101939509 B 20131211; EP 2238314 A1 20101013; EP 2238314 B1 20120523; JP 2011514467 A 20110506; JP 5002063 B2 20120815; US 2011020125 A1 20110127; US 8535012 B2 20130917; WO 2009098111 A1 20090813

DOCDB simple family (application)

**EP 08002388 A 20080208**; CN 200980104499 A 20090114; EP 09707238 A 20090114; EP 2009050363 W 20090114; JP 2010545421 A 20090114; US 86607209 A 20090114