

Title (en)

SEALING ARRANGEMENT FOR A GAS TURBINE

Title (de)

DICHTUNGSANORDNUNG FÜR EINE GASTURBINE

Title (fr)

DISPOSITIF D'ETANCHEITE POUR UNE TURBINE A GAZ

Publication

**EP 1673519 A1 20060628 (DE)**

Application

**EP 04786886 A 20040930**

Priority

- DE 2004002174 W 20040930
- DE 10348290 A 20031017

Abstract (en)

[origin: WO2005040561A1] The sealing arrangement serves to seal off a gap (19) between the radially inner lying ends (18) of the guide blades (16) of a vane ring (15) and a rotor (12), wherein the rotor (12) has at least two sealing protrusions (25, 26) extending in peripheral direction of the rotor (12) and positioned at an axial distance with respect to one another, which, combined with inlet linings (27, 28) assigned to the radially inner-lying ends (18) of the guide blades (16), form a sealing of the gap (19). According to the invention, the sealing protrusions (25, 26) are inclined or slanted in axial direction towards a side having a higher pressure, wherein at least one recirculation structure (30) is arranged in an area (29) defined by the at least two sealing protrusions (25, 26) and the corresponding inlet linings (27, 28) and wherein the recirculation structure(s) (30) are aligned towards the side having a higher pressure.

IPC 1-7

**F01D 11/00**; F01D 11/02; F16J 15/44

IPC 8 full level

**F01D 11/00** (2006.01); **F01D 11/02** (2006.01)

CPC (source: EP US)

**F01D 11/001** (2013.01 - EP US); **F01D 11/02** (2013.01 - EP US); **F05D 2240/55** (2013.01 - EP US); **F05D 2240/80** (2013.01 - EP US); **F05D 2250/283** (2013.01 - EP US)

Citation (search report)

See references of WO 2005040561A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**DE 10348290 A1 20050512**; EP 1673519 A1 20060628; EP 1673519 B1 20120829; US 2007274825 A1 20071129; US 9011083 B2 20150421; WO 2005040561 A1 20050506

DOCDB simple family (application)

**DE 10348290 A 20031017**; DE 2004002174 W 20040930; EP 04786886 A 20040930; US 57603504 A 20040930