

Title (en)

Gas turbine shroud labyrinth seal

Title (de)

Gasturbine mit Deckband-Labyrinthdichtung

Title (fr)

Turbine à gaz avec un joint à labyrinthe de la virole

Publication

EP 2302174 A3 20140122 (DE)

Application

EP 10007636 A 20100722

Priority

DE 102009042857 A 20090924

Abstract (en)

[origin: EP2302174A2] The gas turbine has a casing (1), and a rotor (9) including blades (2) provided with a shroud (3). A labyrinth seal (4) is provided between the shroud and the casing. The shroud comprises two radially spaced and axially protruding annular fins (5). A sealing fin (6) is provided on the casing. The sealing fin extends radially inward to the shroud over a part of circumference and partly in a space between the annular fins.

IPC 8 full level

F01D 11/08 (2006.01)

CPC (source: EP US)

F01D 11/08 (2013.01 - EP US)

Citation (search report)

- [XII] GB 767656 A 19570206 - ROLLS ROYCE
- [XII] DE 102007044727 A1 20080403 - GEN ELECTRIC [US]
- [X] DD 54380 A1
- [A] DE 69731828 T2 20051201 - TURBO PARTS L L C [US]

Cited by

EP3822461A1; US9416671B2; EP2650476B1

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2302174 A2 20110330; EP 2302174 A3 20140122; DE 102009042857 A1 20110331; US 2011070074 A1 20110324

DOCDB simple family (application)

EP 10007636 A 20100722; DE 102009042857 A 20090924; US 88165510 A 20100914