

Title (en)

Turbomachine having clearance control capability

Title (de)

Strömungsmaschine mit Abstandssteuerungsfähigkeit

Title (fr)

Turbomachine dotée d'une capacité de commande de jeu

Publication

EP 2666971 A1 20131127 (EN)

Application

EP 13167700 A 20130514

Priority

US 201213477839 A 20120522

Abstract (en)

A turbomachine 10 having clearance control capability is provided and includes a turbine stage 20 including a blade 21 configured to rotate around a centerline 22, a movable portion 43 of a casing 40 circumferentially surrounding the turbine stage 20 and a rotatable cam 60 operably coupled to the movable portion and thereby configured to control an axial position of the movable portion. A radially outermost tip of the blade 21 and an interior surface of the movable portion 43 are sloped with respect to the centerline such 22 that the controlled axial position of the movable portion 43 is determinative of a clearance between the blade 21 and the movable portion 43.

IPC 8 full level

F01D 11/22 (2006.01)

CPC (source: EP US)

F01D 11/22 (2013.01 - EP US); **F05D 2230/644** (2013.01 - EP US)

Citation (search report)

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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)

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US 2013315716 A1 20131128

DOCDB simple family (application)

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