

Title (en)

Turbine shroud cooling assembly for a gas turbine system and corresponding gas turbine system

Title (de)

Turbinenummantelungskühlanordnung für ein Gasturbinensystem und zugehöriges Gasturbinensystem

Title (fr)

Agencement de refroidissement d'une virole de turbine pour un système de turbine à gaz et système de turbine à gaz associé

Publication

EP 2666972 A2 20131127 (EN)

Application

EP 13168436 A 20130520

Priority

US 201213480906 A 20120525

Abstract (en)

A turbine shroud cooling assembly (30) for a gas turbine system includes an inner shroud component (34) disposed within a turbine section of the gas turbine system and proximate a hot gas path (32) therein, wherein the inner shroud component (34) includes a base portion (40) in direct contact with the hot gas path (32). Also included is a rib (70) protruding radially away from the base portion (40) and disposed proximate at least one cavity (54) configured to receive a cooling flow (38) from a cooling source, wherein the cooling flow (38) passes through a main passage (72) of the rib (70) for cooling the inner shroud component (34). A corresponding gas turbine system is also provided.

IPC 8 full level

F01D 11/24 (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP US)

F01D 9/04 (2013.01 - EP US); **F01D 11/24** (2013.01 - EP US); **F05D 2240/11** (2013.01 - EP US); **F05D 2260/22141** (2013.01 - EP US)

Cited by

EP3246523A1; US10344611B2

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)

EP 2666972 A2 20131127; CN 103422917 A 20131204; JP 2013245676 A 20131209; RU 2013123451 A 20141127;
US 2013315719 A1 20131128

DOCDB simple family (application)

EP 13168436 A 20130520; CN 201310195921 A 20130524; JP 2013106685 A 20130521; RU 2013123451 A 20130522;
US 201213480906 A 20120525