Title (en)

Low-ductility turbine shroud

Title (de)

Turbinenummantelung mit geringer Leitfähigkeit

Title (fr)

Carénage de turbine à faible ductilité

Publication

EP 2631434 A2 20130828 (EN)

Application

EP 13156445 A 20130222

Priority

US 201213402616 A 20120222

Abstract (en)

A shroud segment (118) for a gas turbine engine, the shroud segment constructed from a composite material including reinforcing fibers embedded in a matrix, and having a cross-sectional shape defined by opposed forward and aft walls (124,126), and opposed inner and outer walls (120,122), the walls extending between opposed first and second end faces, wherein the inner wall defines an arcuate inner flowpath surface; and wherein a compound fillet (119) is disposed at a junction between first and second ones of the walls, the compound fillet including first and second portions (119A,119B) the second portion having a concave curvature extending into the first one of the walls.

IPC 8 full level

F01D 11/24 (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP)

F01D 25/246 (2013.01); F01D 11/24 (2013.01); F05D 2240/11 (2013.01); F05D 2300/6033 (2013.01)

Citation (applicant)

US 7749565 B2 20100706 - JOHNSON CURTIS ALAN [US], et al

Cited by

EP3173583A1; EP3088690A1; EP3121387A1; FR3056633A1; FR3034132A1; FR3036433A1; RU2703896C2; EP3663532A1; US10927694B2; US9874104B2; US10914186B2; EP3663538A1; EP3663531A1; US2020182077A1; US9726043B2; US11365644B2; US10619514B2; US11215082B2; US10472989B2; EP3760836A1; US10550709B2; US10633996B2; US10934878B2; US11053806B2; US11408300B2; US10400619B2; US11092029B2; US11668207B2; US10718235B2; US10858958B2; WO2016151233A1; WO2016189222A1; US10100654B2; US10309244B2; US10801350B2; US11002143B2; US10378387B2; US10415426B2; US10415427B2; US10428688B2; US10465558B2; US10641120B2

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 2631434 A2 20130828; **EP 2631434 A3 20170726**; CA 2806401 A1 20130822; CN 103291387 A 20130911; CN 103291387 B 20170426; JP 2013170578 A 20130902; JP 6063285 B2 20170118

DOCDB simple family (application)

EP 13156445 A 20130222; CA 2806401 A 20130214; CN 201310056712 A 20130222; JP 2013027200 A 20130215