

Title (en)
Cooled gas turbine stator assembly

Title (de)
Gekühlte Gasturbinenstatoranordnung

Title (fr)
Ensemble de stator de turbine à gaz refroidi

Publication
EP 2264282 A3 20131023 (EN)

Application
EP 10250997 A 20100528

Priority
US 47482209 A 20090529

Abstract (en)
[origin: EP2264282A2] A stator assembly (100) for a gas turbine engine is provided having an annular body (10), an inner gas path platform (30), a plurality of fairings (20), and at least one nozzle (50). The annular body (10) has an outer gas path platform (12) and a circumferentially extending annular cavity (14) disposed radially outside of the outer gas path platform (12). The fairings (20) extend radially between the inner gas path platform (30) and the outer gas path platform (12). Each fairing (20) includes a gas passage (22) extending from the annular cavity (14) through the inner gas path platform (30). The at least one nozzle (50) has an inlet orifice (52) disposed outside of the annular cavity (14) and an exit orifice (54) disposed within the annular cavity (14). The exit orifice (54) is oriented within the annular cavity (14) such that cooling air exiting the nozzle (50) travels in a substantially circumferential direction within the annular cavity (14).

IPC 8 full level
F01D 5/18 (2006.01); **F01D 9/04** (2006.01); **F01D 9/06** (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP US)
F01D 5/18 (2013.01 - EP US); **F01D 5/187** (2013.01 - EP US); **F01D 9/041** (2013.01 - EP US); **F01D 9/065** (2013.01 - EP US); **F01D 25/12** (2013.01 - EP US); **F05D 2240/81** (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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2264282 A2 20101222; EP 2264282 A3 20131023; US 2010303610 A1 20101202

DOCDB simple family (application)
EP 10250997 A 20100528; US 47482209 A 20090529