

Title (en)

Cooling configuration, corresponding stator heat shield, blade, and vane for a gas turbine

Title (de)

Kühlanordnung, zugehörige Statorhitzeschild, Laufschaufel und Statorschaufel für eine Gasturbinenanlage

Title (fr)

Ensemble de refroidissement, écran thermique statorique, aube mobile et aube statorique associés pour un moteur à turbine à gaz

Publication

EP 2754857 A1 20140716 (EN)

Application

EP 13150882 A 20130110

Priority

EP 13150882 A 20130110

Abstract (en)

Cooling configuration for a gas turbine T-junction (100) joining a first wall (1) and a second wall (2), the second wall (2) requiring cooling because it is subjected to hot gas on one side (3), the cooling configuration comprising an impingement sheet (4) having a plurality of holes (40) through which an air flow (400) is blown, and comprising a plurality of reinforcing ribs (5) defining a plurality of cavities (7) between them, such that the air flow (400) impacts into said cavities (7). The wall thickness of the second wall (2) can be locally reduced in the vicinity of its junction to the first wall (1) and the wall thickness of the first wall (1) can also be locally reduced in the vicinity to its junction to the second wall (2). Corresponding stator heat shield, blade, and vane are also provided.

IPC 8 full level

F01D 5/18 (2006.01); **F01D 9/04** (2006.01); **F01D 11/24** (2006.01)

CPC (source: EP)

F01D 5/189 (2013.01); **F01D 9/041** (2013.01); **F01D 11/24** (2013.01)

Citation (applicant)

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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)

EP 2754857 A1 20140716

DOCDB simple family (application)

EP 13150882 A 20130110