

Title (en)

GAS TURBINE STATOR VANE WITH SEALING MEMBER AND METHOD FOR MODIFYING A GAS TURBINE STATOR VANE

Title (de)

GASTURBINENLEITSCHAUFEL MIT DICHELEMENT UND VERFAHREN ZUR MODIFIZIERUNG EINER GASTURBINENLEITSCHAUFEL

Title (fr)

AUBE DE STATOR DE TURBINE À GAZ DOTÉE D'UN ÉLÉMENT D'ÉTANCHÉITÉ ET PROCÉDÉ DE MODIFICATION D'UNE AUBE DE STATOR DE TURBINE À GAZ

Publication

EP 3926141 B1 20240313 (EN)

Application

EP 20425018 A 20200615

Priority

EP 20425018 A 20200615

Abstract (en)

[origin: EP3926141A1] A gas turbine stator vane includes, an airfoil (13), having a leading edge (13a) and a trailing edge (13b), an outer platform (14), connected to an outer end of the airfoil (13), and an inner platform (15), connected to an inner end of the airfoil (13). The inner platform (15) has a front edge (15a) and an aft edge (15b) at the leading edge (13a) and at the trailing edge (13b) of the airfoil (13), respectively and includes a stator aft sealing portion (19) at the aft edge (15b) and at least one aft sealing rib (20), integral with the inner platform (15) and delimited by adjacent aft grooves (21) that extend parallel to each other all along the aft edge (15b) in the stator aft sealing portion (19), whereby in use the stator aft sealing portion (19) contacts a respective adjacent rotor portion of a gas turbine rotor (3) in response to thermal expansion only at the at least one aft sealing rib (20).

IPC 8 full level

F01D 5/14 (2006.01); **F01D 9/04** (2006.01); **F01D 11/00** (2006.01); **F01D 25/24** (2006.01)

CPC (source: CN EP)

F01D 5/143 (2013.01 - EP); **F01D 9/041** (2013.01 - CN); **F01D 9/042** (2013.01 - EP); **F01D 11/00** (2013.01 - EP); **F01D 11/001** (2013.01 - CN EP); **F01D 25/246** (2013.01 - EP); **F05D 2240/11** (2013.01 - EP); **F05D 2240/55** (2013.01 - EP); **F05D 2240/80** (2013.01 - EP); **F05D 2250/00** (2013.01 - EP); **F05D 2250/70** (2013.01 - EP)

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

DOCDB simple family (publication)

EP 3926141 A1 20211222; **EP 3926141 B1 20240313**; CN 113803119 A 20211217

DOCDB simple family (application)

EP 20425018 A 20200615; CN 202110660356 A 20210615