

Title (en)

STATOR ASSEMBLY FOR A GAS TURBINE AND GAS TURBINE COMPRISING SAID STATOR ASSEMBLY

Title (de)

STATORANORDNUNG FÜR EINE GASTURBINE UND GASTURBINE MIT DIESER STATORANORDNUNG

Title (fr)

ENSEMBLE DE STATOR POUR TURBINE À GAZ ET TURBINE À GAZ COMPORTANT LEDIT ENSEMBLE DE STATOR

Publication

EP 3816402 A1 20210505 (EN)

Application

EP 19425078 A 20191104

Priority

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Abstract (en)

A stator assembly (22) for a gas turbine is provided with a stator ring (24), which extends about a longitudinal axis (A) and comprises an outer edge (29) provided with an annular groove (30); the annular groove (30) defining a leading wall (34) and a trailing wall (35); the leading wall (34) being provided with an annular leading radial face (56) and with an annular leading axial face (57); and with a plurality of stator vanes (25) radially arranged and coupled alongside one another to the outer edge (29) of the stator ring (24) so as to close the annular groove (30) and define an annular cooling channel (32); each stator vane (25) comprises an airfoil (38), an outer shroud (39) and an inner shroud (40) coupled to the stator ring (24); the inner shroud (40) comprising a platform (42), a leading flange (43) and a trailing flange (44) extending radially inward from the platform (42); the leading flange (43) being coupled to the leading wall (34) and the trailing flange (44) being coupled to the trailing wall (35); the leading flange (43) being coupled to the leading wall (34) so as to leave a primary radial gap (48) between the leading wall (34) and the platform (42) and define a leading surface (50) of the leading flange (43); the platform (42) having a leading border (54a) and a trailing border (54b), both extending circumferentially; the leading border (54a) comprising at least one first surface (61) facing the primary radial gap (48); the first surface (61) being curved.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

- [XA] US 9062557 B2 20150623 - THAM KOK-MUN [US], et al
- [X] WO 2015104695 A1 20150716 - ANSALDO ENERGIA SPA [IT]
- [A] US 6481959 B1 20021119 - MORRIS MARK C [US], et al
- [A] US 2010008760 A1 20100114 - MORRIS MARK C [US], et al

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)

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