

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 3663522 B1 20211124 (EN)

Application

EP 18425095 A 20181207

Priority

EP 18425095 A 20181207

Abstract (en)

[origin: EP3663522A1] A stator assembly (22) for a gas turbine comprising: 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 edge wall (34) and a trailing edge wall (35); the leading edge wall (34) being provided with an annular leading edge radial face (56) and with an annular leading edge axial face (57); 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) and a leading edge flange (43) and a trailing edge flange (44) extending radially inward from the platform (42); the leading edge flange (43) being coupled to the leading edge wall (34) and the trailing edge flange (44) being coupled to the trailing edge wall (35); the leading edge flange (43) being coupled to the leading edge wall (34) so as to leave a primary radial gap (48) between the leading edge wall (34) and the platform (42) and define a leading edge surface (50) of the leading edge flange (43); the leading edge flange (43) being provided, on the leading edge surface (50), with at least one primary cooling hole (55) in fluid communication with the annular cooling channel (32); the leading edge wall (34) comprising a primary baffle (59) protruding radially from the annular leading edge axial face (57) and axially facing the at least one primary cooling hole (55) .

IPC 8 full level

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CPC (source: CN EP)

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Cited by

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