

Title (en)

GAS TURBINE ASSEMBLY AND METHOD FOR OPERATING SAID GAS TURBINE ASSEMBLY

Title (de)

GASTURBINENANORDNUNG UND VERFAHREN ZUM BETRIEB DER BESAGTEN GASTURBINENANORDNUNG

Title (fr)

ENSEMBLE TURBINE À GAZ ET PROCÉDÉ DE FONCTIONNEMENT DUDIT ENSEMBLE TURBINE À GAZ

Publication

EP 4019743 B1 20240612 (EN)

Application

EP 20217259 A 20201224

Priority

EP 20217259 A 20201224

Abstract (en)

[origin: EP4019743A1] A gas turbine assembly extending along a longitudinal axis (A) comprises: a stator (6) defining a working channel (8, 9); a rotor (11) comprising a plurality of rotor stages (13); each rotor stage (13) comprising a plurality of blades (17) rotatable in the working channel (8, 9) about the longitudinal axis (A); each blade (17) being provided with a tip (29); at least one movable element (30) which is coupled to the stator (6) by means of at least one retaining device (32) and moves radially between the stator (6) and at least one tip (29) of the blades (17) for regulating a clearance gap (33) between the at least one tip (29) and the movable element (30); wherein the movable element (30) is coupled to the stator (6) by means of a retaining device (32) so as to create a regulating gap (35) between the stator (6) and the movable element (30) which is in fluidic communication with the working channel (8, 9); the movable element (30) being provided with at least one first sealing element (37) dividing the regulating gap (35) in at least two chambers (38); one first chamber (38a) of the at least two chambers (38) being in fluidic communication with the working channel (8, 9) upstream the rotor stage (13) and one second chamber (38b) of the at least two chambers (38) being in fluidic communication with the working channel (8, 9) downstream the rotor stage (13).

IPC 8 full level

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