

Title (en)

SEALING ARRANGEMENT FOR A GAS TURBINE

Title (de)

DICHTUNGSANORDNUNG FÜR EINE GASTURBINE

Title (fr)

DISPOSITIF D'ETANCHEITE POUR UNE TURBINE A GAZ

Publication

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Application

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Abstract (en)

[origin: WO2005040561A1] The sealing arrangement serves to seal off a gap (19) between the radially inner lying ends (18) of the guide blades (16) of a vane ring (15) and a rotor (12), wherein the rotor (12) has at least two sealing protrusions (25, 26) extending in peripheral direction of the rotor (12) and positioned at an axial distance with respect to one another, which, combined with inlet linings (27, 28) assigned to the radially inner-lying ends (18) of the guide blades (16), form a sealing of the gap (19). According to the invention, the sealing protrusions (25, 26) are inclined or slanted in axial direction towards a side having a higher pressure, wherein at least one recirculation structure (30) is arranged in an area (29) defined by the at least two sealing protrusions (25, 26) and the corresponding inlet linings (27, 28) and wherein the recirculation structure(s) (30) are aligned towards the side having a higher pressure.

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