

Title (en)
TURBOMACHINE, PARTICULARLY A GAS TURBINE

Title (de)
STRÖMUNGSMASCHINE, INSBESONDERE GASTURBINE

Title (fr)
TURBO MACHINE, EN PARTICULIER TURBINE À GAZ

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Abstract (en)
[origin: WO2008074633A1] The invention relates to a gas turbine (1), comprising a rotor (2), which has two blade rows (5) with a plurality of blades (6) and an interposed rotor heat shield (7) with a plurality of shield elements (12), and a stator (3), which has a guide vane row (8) with a plurality of guide vanes (9) disposed axially between the two adjoining guide vane rows (5). The guide vanes (9) have a stator sealing structure (10) radially on the inside. The shield elements (12) have a rotor sealing structure (13) radially on the outside, the structure interacting with the stator sealing structure (10) to form an axial seal (14). In addition, between two adjoining blades (6) a radial blade seal (15), and between two adjoining shield elements (12) a radial shield seal (16), are configured, which each separate a gas path (17) from the rotor (2). In order to increase the efficiency, the shield elements (12) and the blades (6) are matched to one another such that the radial shield seal (16) transitions without interruption into the radial blade seals (15) of the two axially adjoining blades (6) so that a continuous radial seal (21) is formed from the one blade (6) via the shield element (12) to the other blade (6).

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