

Title (en)
TURBO ENGINE

Title (de)
TURBOMASCHINE

Title (fr)
TURBOMACHINE

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Application
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Abstract (en)
[origin: US2010003122A1] The invention concerns a turbo engine, especially a gas turbine, with a stator and a rotor, wherein the rotor has rotating blades and the stator has a housing (11) and guide blades (12), wherein the rotating blades at the rotor side form at least one rotating blade ring, and the rotating blade ring or each rotating blade ring at one radially outward lying end adjoins an inner ring or casing ring (17) of the housing at the stator side, by which it is surrounded and with which it bounds a gap, wherein the particular casing ring (17) is connected to a support ring (20) via curved walls (19), which together with the casing ring (17) and the support ring (20) bound a cavity (22) and form a bellows-like structure (21), and wherein by changing the pressure prevailing in the cavity (22) of the respective bellows-like structure (21) the gap between the casing ring (17) and the radially outward lying ends of the respective rotating blade ring can be pneumatically adjusted. According to the invention, in the region of the bellows-like structure or each bellows-like structure (21), each wall (19) is curved only once inwardly into the respective cavity (22), looking in the axial direction.

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