

Title (en)

APPARATUS FOR THE AUTOMATIC CONTROL OF THE PLAY OF A LABYRINTH SEAL OF A TURBO MACHINE

Publication

EP 0176447 B1 19871104 (FR)

Application

EP 85401864 A 19850925

Priority

FR 8414819 A 19840927

Abstract (en)

[origin: US4662821A] Apparatus associated with a labyrinth seal of a turbo machine for automatically maintaining a desired clearance between lip members and a wear seal of the labyrinth seal over a range of operational states of the turbo machine. The wear seal comprises a first part made of honeycomb material and a second smooth part spaced axially from the first part. An annular carrier supports the wear seal, and a stator supports the carrier, thereby defining between the carrier and the stator an annular chamber having radially outer orifices for admission of an air supply to the chamber. An annular sheet member disposed within the annular chamber has a plurality of holes and is spaced at a small distance from the carrier. Whereas acceleration and deceleration of the turbo machine normally would tend to alter the spacing of the wear seal and the lip members, the structure recited above corrects for this effect, thereby maintaining a desired clearance between the wear seal and the lip members.

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