

Title (en)

ROTARY REGENERATIVE HEAT EXCHANGER AND A METHOD FOR OPERATING A ROTARY REGENERATIVE HEAT EXCHANGER

Title (de)

UMLAUFENDER REGENERATIVER WÄRMETAUSCHER UND VERFAHREN ZUM BETREIBEN EINES UMLAUFENDEN REGENERATIVEN WÄRMETAUSCHERS

Title (fr)

ECHANGEUR THERMIQUE ROTATIF A REGENERATION ET PROCEDE D'EXPLOITATION D'UN ECHANGEUR THERMIQUE ROTATIF A REGENERATION

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Application

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Abstract (en)

[origin: WO9624813A1] In a rotary regenerative heat exchanger of the kind having a rotor mounted in a casing, supports are provided for maintaining a certain clearance between the rotor and movable sector plates (6) connected to the casing and located closed to the rotor ends. Each support co-operates through a front surface on a sliding shoe (25) with an end surface (61) on a flange (12) on the rotor. Each support is provided with gas conduit means ending in the gas outlet means in the front surface and being connected to a gas source of a pressure sufficient to establish a gap between the front surface and the end surface (61) so that a cushion of gas is established between the surfaces as the gas escapes from the gas outlet means through the gap. According to the invention a sector plate (6) is provided with only one single gas cushion support located in the region of the symmetry line (69) of the plate (6), and at the outer corners of the plate (6) axially directed stabilizing projections (68) are provided, which face the end surface (61) of the flange (12). These supports (68) prevent tilting of the plate (6) as only one single gas cushion support is provided.

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