Title (en)

REGENERATIVE HEAT EXCHANGER

Title (de

RÉGENERATIV-WÄRMETAUSCHER

Title (fr)

ECHANGEUR THERMIQUE A REGENERATION

Publication

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Application

EP 94920634 A 19940701

Priority

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Abstract (en

[origin: WO9501541A1] The invention relates to a regenerative, rotating heat exchanger comprising a first main part (2), which is essentially cylindrical and contains a mass of regenerating material (3), and a second main part comprising a housing structure provided with inlet and outlet ducts for the heat exchanging media, which are separated by movable sector plates (5, 6, 7, 8). The sector plates are positioned with a small gap closely adjacent to the ends of the cylindrical part (2) by means of setting units in the shape of sliding shoes (25), which are attached axially movable at the outer end portions of the sector plates (6, 8) facing end flanges (12) extending around the periphery of each end of the cylindrical part. The sliding shoes are provided with recesses (40, 41) in their end surfaces facing the corresponding end flanges, which recesses communicate with a pressure gas source for creating a pressure gas cushion between each sliding shoe (25) and corresponding end flange (12). The pivotally sector plates (6, 8) are, according to a preferred embodiment of the invention, actuated outwardly from the ends of the cylindrical part by resilient members (37) and/or balancing members, and in the opposite direction by pressure medium operated push means (34, 35), the pressure medium of which being arranged to cease in case of a breakdown of the pressure from the pressure gas source feeding the sliding shoes (25).

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CPC (source: EP)

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DE 1120485 B - APPBAU ROTHEMUEHLE DR BRANDT &

Cited by

US6261092B1; US7325562B2; US7150446B1; US6669472B1; US6783111B2; US6899121B2; US6749815B2

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