

Title (en)

CYLINDRICAL HEAT EXCHANGER MANUFACTURED FROM PREFABRICATED COMPONENTS, IN PARTICULAR A CHIMNEY RECUPERATOR

Publication

EP 0230982 B1 19900110 (DE)

Application

EP 87100820 A 19870121

Priority

HU 37186 A 19860127

Abstract (en)

[origin: EP0230982A2] 1. Cylindrical heat exchanger manufactured of prefabricated components, especially chimney recuperator to be assembled to a selected length, comprising a plurality of heat exchange pockets (1) disposed in a circular arrangement, in axial planes, and spaced from each other in the direction of circumference of the exchanger, which heat exchange pockets (1) are connected to at least one inlet opening (9) and at least one outlet opening (10) and are surrounded by a cylindrical exterior envelope (6), a flow-preventing guide member (13) being provided in the thermally inactive space defined by the radially inner ends of the heat exchange pockets (1), characterised in that the heat exchange pockets (1) are connected to annular flow chambers (8) through a respective radial inlet conduct (2) and a respective radial outlet conduct (3) axially arranged one above the other, the annular flow chambers (8) being formed between the exterior envelope (6) and an inner cylindrical envelope (5) surrounding the heat exchange pockets (1) and formed by mutual connection of the walls of the inlet and outlet conducts and by their connection with jacket sheets (4), the annular flow chambers (8) being separated from each other by annular dividing walls (7), and the inlet and outlet conducts (9, 10) leading radially or axially into a respective annular flow chamber (8).

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IPC 8 full level

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CPC (source: EP)

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Cited by

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