

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Échangeur de chaleur

Publication
EP 1972863 A2 20080924 (EN)

Application
EP 08152231 A 20080304

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• PL 38191907 A 20070306
• PL 38318807 A 20070823

Abstract (en)
An object of the present invention is a heat exchanger for warming up liquids, and more particularly in central heating installations, enclosing an assembly of elements being hermetically connected and inside of which the warmed up liquid flows through. Those elements are placed in a cylindrical jacket, wherein the assembly being provided with liquid inlet and outlet elements, consists of a series of circular ring shaped cylindrical elements being vertically and concentrically positioned, forming the ring shaped spaces being closed in the top and in the bottom, used for the flow of the warmed up liquid. The cylindrical elements are placed in certain distances from each other to form ring shaped gaps for the flow of heat exchange medium, and more particularly the combustion gas, and all closed inner spaces of the ring shaped cylindrical elements are connected with each other in the bottom and top by means of connector pipes. According to the present invention, the outer ring shaped cylindrical element (2) forming a heat exchanger jacket is longer than the other elements and is covered from the top with a double-walled head, consisting of walls (15, 16), which forms a stabilizing outlet container (17), wherein there is an inlet connection (14) in the bottom of the outer ring shaped cylindrical element (2), and an outlet connection (18) is to be found in the top thereof. The connector pipes (4, 4') as placed in the bottom and top of the cylindrical elements (2) are radially arranged in a cross-shaped arrangement.

IPC 8 full level
F24H 1/28 (2006.01)

CPC (source: EP)
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Citation (applicant)
• DE 19517633 A1 19961114 - WAERMETECHNIK GMBH [DE]
• JP S6475891 A 19890322 - EBARA CORP

Cited by
RU2671669C1; JP2021038894A; WO2014142688A1; WO2021044648A1

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