

Title (en)
HEAT EXCHANGER AND ASSEMBLY OF A HEAT EXCHANGER AND A BURNER

Title (de)
WÄRMEÜBERTRAGER UND ANORDNUNG EINES WÄRMETAUSCHERS UND EINES BRENNERS

Title (fr)
ÉCHANGEUR DE CHALEUR ET ENSEMBLE CONSTITUE D'UN BRULEUR ET D'UN ECHANGEUR DE CHALEUR

Publication
EP 3076101 A3 20180328 (EN)

Application
EP 16159342 A 20160309

Priority
NL 2014432 A 20150310

Abstract (en)
[origin: EP3076101A2] The invention relates to a heat exchanger, comprising: - a casing, comprising: - a substantially U-shaped body as seen in cross-section and extending in a longitudinal direction, wherein a base of the U-shape body comprises a gas outlet opening and wherein an open end, opposite to the base, of the U-shape body comprises a receiving space for receiving a burner, and - two end plates arranged at the two longitudinal end zones of said U-shape body; - a plurality of pipes arranged within said casing and connected to said end plates, through which pipes in use a liquid can flow; - a plurality of connecting means for providing a liquid through flow connection between at least two pipes at each longitudinal end zone of said U-shape body, such that liquid flowing through a first pipe of the at least two pipes is directed to the other pipe of the at least two pipes, wherein a first part of the pipes is arranged in a first pattern defining two legs of a substantially U-shape as seen in cross-section, said first pattern being arranged substantially parallel to legs of said U-shape body, and wherein a second part of said pipes are arranged within a space at least partly bounded by said first pattern. The invention further relates to an assembly of a heat exchanger according to the invention and a burner, wherein the burner is arranged in said receiving space.

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Citation (search report)
• [XDY] EP 0687870 A1 19951220 - ATAG VERWARMING BV [NL]
• [X] EP 1243866 A1 20020925 - IMMERGAS SPA [IT]
• [A] GB 2244799 A 19911211 - WELMARK LIMITED [GB]
• [Y] FR 2518715 A1 19830624 - REMEHA FABRIEKEN BV [NL]
• [A] GB 2066432 A 19810708 - LANDREAU A, et al
• [Y] EP 0905457 A2 19990331 - FERROLI SPA [IT]
• [Y] DE 102009028624 A1 20110224 - SANDVIK INTELLECTUAL PROPERTY [SE]
• [A] DE 9212347 U1 19921029

Cited by
CN110529840A; DE102017212965A1; DE102017212965B4

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