

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 A2 20161005 (EN)**

Application

**EP 16159342 A 20160309**

Priority

NL 2014432 A 20150310

Abstract (en)

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.

IPC 8 full level

**F24H 1/40** (2006.01); **F28D 7/00** (2006.01)

CPC (source: EP)

**F24H 1/40** (2013.01); **F24H 1/406** (2013.01); **F28D 7/0041** (2013.01); **F28D 7/1638** (2013.01); **F28D 21/0003** (2013.01); **F28F 2210/08** (2013.01)

Citation (applicant)

EP 0687870 B1 20000112 - ATAG VERWARMING BV [NL]

Cited by

CN110529840A; DE102017212965A1; DE102017212965B4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3076101 A2 20161005**; **EP 3076101 A3 20180328**; NL 2014432 A 20161010; NL 2014432 B1 20170106

DOCDB simple family (application)

**EP 16159342 A 20160309**; NL 2014432 A 20150310