

Title (en)

MIXING AND HEAT-EXCHANGE SYSTEM FOR CONDENSING GAS BOILERS.

Title (de)

MISCH- UND WÄRMETAUSCHSYSTEM AN KONDENSATIONSGASKESSELN.

Title (fr)

DISPOSITIF DE MELANGE ET D'ECHANGE DE CHALEUR MONTE SUR DES CHAUDIERES A CONDENSATION.

Publication

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Application

EP 93921777 A 19931011

Priority

- CS 309792 A 19921009
- CZ 9300025 W 19931011

Abstract (en)

[origin: WO9409326A1] The invention pertains to a device consisting of a combustion chamber (12) and, situated at its upper surface, a mixing chamber (6), with a gas burner panel (11), and of a heat exchanger enclosed in the lower part of the combustion chamber. The mixer (1) is placed between gas and air feed lines and the mixing chamber (6) and made with a surrounding chamber (3), while near the critical inside diameter of the mixer there is a ring of at least three symmetrically penetrating nozzles (5). The mixer feeds into the mixing chamber (6), which consists of the preparation sector (8) and the feed-line sector (7) comprising at least one feed partition (10) and a section wall (100). At the base of the combustion chamber there is at least one ribbed tube (14) with one end in the combustion chamber (12) and the other at the base of the descending channel (15). Between the descending channel wall and the combustion chamber wall there is a descending channel (17) linked with the mixer (1) via communication of the junction channel (22) with ventilator (21).

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F24H 8/00; **F23D 14/62**

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Citation (search report)

See references of WO 9409326A1

Citation (examination)

- EP-A- 0 373 027
- EP-A- 0 415 008
- DE-A- 2 700 786
- DE-A- 3 312 563
- DE-A- 3 842 463
- DE-U- 9 213 594
- US-A- 4 998 508

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