

Title (en)

Heat exchanger for a boiler and gas boiler, in particular a condensation boiler, provided with said heat exchanger

Title (de)

Wärmetauscher für ein Heizgerät and Gasheizgerät, insbesondere Brennwertheizgerät mit einem solchen Wärmetauscher

Title (fr)

Echangeur de chaleur pour chaudière et chaudière à gaz, particulièrement chaudière à condensation avec un tel échangeur de chaleur

Publication

EP 2012071 A2 20090107 (EN)

Application

EP 08159622 A 20080703

Priority

IT MI20071330 A 20070704

Abstract (en)

A heat exchanger (4) for a gas boiler for producing hot water is provided with a casing (11) through which combustion fumes flow and which extends along an axis (A), and a pipe (12) along which water flows and which is arranged inside the casing (11) and coiled about the axis (A) so as to form a succession of turns (20); the pipe (12) has a cross-section (32) comprising at least one outwardly concave portion (33) and one outwardly convex portion (34) opposite the concave portion (33). Adjacent turns (20) face one another parallel to the axis (A) so that the concave portion (33) of one turn faces the convex portion (34) of the adjacent turn to delimit a channel (41) through which the combustion fumes flow, said channel (41) extending along a curved and/or non-rectilinear axis. Optionally, an outer surface (22) and/or an inner surface (23) of the pipe (12) are longitudinally grooved.

IPC 8 full level

F24H 1/43 (2006.01)

CPC (source: EP)

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Cited by

EP2941609A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

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