

Title (en)
IMPROVED HEAT EXCHANGER

Title (de)
VERBESSERTER WÄRMETAUSCHER

Title (fr)
ECHANGEUR THERMIQUE AMELIORE

Publication
EP 1957883 A1 20080820 (EN)

Application
EP 06832335 A 20061123

Priority
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Abstract (en)
[origin: WO2007066369A1] The present invention relates to an improved heat exchanger comprising a water inlet duct and a water outlet duct, between which a heat exchanger is provided, comprised of a spiral duct through which water to be heated passes; said heat exchanger individuating a combustion chamber within which a burner is provided, said burner being supplied by an air-gas mixture; and upper cap placed so as to be in touch with at least the last upper turn of the heat exchanger duct, and a lower cap, placed distanced from the last lower turn of the heat exchanger duct, so as to create a gap for passage of gas and discharging condensate; said heat exchanger being characterised in that it comprises a manifold element having such a surface to innerly occupy the upper surface of said combustion chamber, an concave shape and placed above said upper cap, with the upper surface of which it realises a cavity within which an air - gas mixture is collected before being conveyed within said burner.

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