

Title (en)

Heating apparatus for heating air and/or water

Title (de)

Heizgerät zum Erwärmen von Luft und/oder Wasser

Title (fr)

Appareil de chauffage pour chauffer de l'air et/ou de l'eau

Publication

EP 0926453 B1 20040421 (DE)

Application

EP 98119759 A 19981022

Priority

DE 29722802 U 19971223

Abstract (en)

[origin: EP0926453A2] The unit has a burner (1) placed in a flame tube (2) surrounded by a heating chamber (4), which is itself surrounded by a heat transfer insert (5). A water boiler (7) around the insert has regions (9-11) of different defined clearance geometry on its inner surface, determining the heat transfer from the insert. In the first region (9) close to the insert, the predominant way of heat transfer may be thermal conduction, whereas in the second region (10) near the outlet (13) for combustion gases from the flame tube, the predominant way of heat transfer may be convection and thermal radiation. The clearance in a third region (11) has a clearance between those of the other two regions pressure.

IPC 1-7

F24H 1/26; **F24H 3/06**

IPC 8 full level

F24H 1/26 (2006.01); **F24H 3/06** (2006.01)

CPC (source: EP)

F24H 1/263 (2013.01); **F24H 3/065** (2013.01); **F28F 2215/10** (2013.01)

Cited by

US2009008465A1; DE102007034245A1; DE102023000495A1; US12043081B2; WO2019025633A1; WO2019025634A1; USD905217S; USD907183S; USD944374S; US11772452B2

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