

Title (en)
Indirect liquid heating system.

Title (de)
Anlage zur indirekten Beheizung einer Flüssigkeit.

Title (fr)
Dispositif pour chauffer indirectement un liquide.

Publication
EP 0295967 A2 19881221 (EN)

Application
EP 88305611 A 19880620

Priority
GB 8714419 A 19870619

Abstract (en)
An indirect liquid heating system comprises a water tank (20) having an inlet (5) and outlet (7). A fuel gas burner (1) below the tank discharges products of combustion through heat exchanger tubes (2) to a smoke box (10) above the tank, from whence they are vented from a flue (8). According to the invention the part (3) of the tank bottom (21) immediately above the burner (1) is conical or pyramidal, its tip or apex (24) projecting into the orifice of the inlet (5) so as to restrict the same and cause local increase in the speed and pressure of incoming liquid. In the case of raw water this will inhibit scale formation. Scale which does form on the cone or pyramid (3) is shed by differential contraction and expansion and falls down the sloping surface(s) of the cone or pyramid (3) to collect at the bottom (21) of the tank at a position laterally offset from the burner (1), thus avoiding overheating of the tank bottom and inefficiency due to scale accumulation.

IPC 1-7
F24H 1/20; **F24H 9/12**

IPC 8 full level
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CPC (source: EP)
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Cited by
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EP 0295967 A2 19881221; **EP 0295967 A3 19900530**; **EP 0295967 B1 19911030**; DE 3865894 D1 19911205; GB 2207740 A 19890208; GB 2207740 B 19910306; GB 8714419 D0 19870722; GB 8814646 D0 19880727

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