

Title (en)
A boiler

Title (de)
Kessel

Title (fr)
Chaudière

Publication
EP 1106937 A1 20010613 (EN)

Application
EP 99650113 A 19991210

Priority
EP 99650113 A 19991210

Abstract (en)
There is provided an enclosed boiler (1) having sidewall means (4,5,6,7) in the form of water carrying side wall tanks which define an enclosure within which is mounted a heat exchanger (10) through which flame and hot gases are led from an oil burner (12) to an exhaust gas flue (15). The heat exchanger (10) comprises an upper transverse baffle plate (20) and a lower transverse baffle plate (21) and a central core formed by four rectangular plates (22). A number of upright baffle plates (24) project from the core (23) to meet the sidewall means (4,5,6,7) to form various passageways. Gas is then delivered into the heat exchanger means (10) and is delivered up and down the heat exchanger between the core, the upper transverse baffle plate (20) and the lower transverse baffle plate (21) between the baffle plates until they are delivered out of the heat exchanger (10). The hot exhaust gas thus travels up and down between the two transverse baffle plates causing them to travel a considerable distance over the surface of the water carrying tanks of the boiler (1). <IMAGE>

IPC 1-7
F24H 1/26; **F24H 9/00**

IPC 8 full level
F24H 1/26 (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP)
F24H 1/26 (2013.01); **F24H 9/0026** (2013.01)

Citation (applicant)
EP 0616676 A1 19940928 - ALLEY ENTERPRISES LTD [IE]

Citation (search report)
• [A] GB 2187271 A 19870903 - PUBAVON LTD
• [A] DE 3239267 A1 19840426 - SIEGER HEIZKESSELWERK GMBH [DE]

Cited by
CN103206705A

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EP 1106937 A1 20010613; **EP 1106937 B1 20040616**; AT E269522 T1 20040715; DE 69918129 D1 20040722; DE 69918129 T2 20050707; IE 991036 A1 20010711

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