

Title (en)
WATER HEATER

Publication
EP 0337923 B1 19921111 (DE)

Application
EP 89710028 A 19890417

Priority
AT 97788 A 19880415

Abstract (en)
[origin: EP0337923A2] A water heater with a downward burner (1) assigned to a combustion chamber (2) comprises at least one heat exchanger arranged in the waste gas guide (3). In order to prevent overheating of the heat exchanger elements lying closer to the burner (1), these elements are designed and/or arranged with a lower heat absorption capacity than the elements lying further from the burner (1). To this end, the heat exchanger elements lying closer to the burner (1) can be formed for example from pipe trains (4) with a smooth surface and the pipe trains (6 or 10) lying further from the burner (1) with ribs (5 or 11). Moreover, there can be arranged in the region of the heat exchanger elements (4 or 6) facing the burner (1) rods (7) consisting of ceramic material which deflect and absorb radiation heat. <IMAGE>

IPC 1-7
F24H 1/40; **F24H 9/00**

IPC 8 full level
F24H 1/40 (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP)
F24H 1/40 (2013.01); **F24H 9/0026** (2013.01); **F28F 1/24** (2013.01); **F28F 2215/04** (2013.01)

Cited by
EP0687870A1; GB2286237A; GB2286237B; US6763786B2

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AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0337923 A2 19891018; **EP 0337923 A3 19901031**; **EP 0337923 B1 19921111**; AT 395268 B 19921110; AT A97788 A 19920315; AT E82381 T1 19921115; DE 3912616 A1 19891026; DE 58902642 D1 19921217; ES 2037460 T3 19930616; GR 3006755 T3 19930630

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