

Title (en)
WATER HEATER CONSTRUCTION AND METHOD OF HEATING WATER WATER HEATER CONSTRUCTION AND METHOD OF HEATING WATER

Publication
EP 0171504 A3 19870722 (EN)

Application
EP 85103703 A 19850327

Priority
US 63919584 A 19840809

Abstract (en)
[origin: EP0171504A2] A water heater including a water tight tank having a tank wall and top and bottom head members welded thereto. A combustion chamber and burner are mounted beneath the bottom head. A pair of concentrically arranged jacket members are mounted around the tank wall with the space between the jacket members serving as a flow passageway through which combustion air flows downwardly to the combustion chamber. A pair of concentrically arranged tube assemblies are connected to the top of the heater. The inside tube assemblies carry products of combustion from the heater and the space between the inside tube assemblies and the outside tube assemblies serve as a flow passageway through which combustion air flows to the flow passageway space between the jacket members.

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F24H 1/20; **F23J 13/02**; **F24H 1/18**

IPC 8 full level
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F23J 13/025 (2013.01); **F23L 17/04** (2013.01); **F24H 1/205** (2013.01); **F23J 2211/101** (2013.01)

Citation (search report)
• [X] FR 2124808 A5 19720922 - PALOMA KOGYO KK
• [A] DE 2722626 A1 19780209 - LEBLANC SA E L M
• [A] US 3091223 A 19630528 - VITALE JOHN J

Cited by
GB2220477A; AT406416B; EP1134496A1; GB2402464A; GB2402464B; GB2238378A; GB2238378B; NL1020564C2; EP1094274A1; EP0278270A3; GB2359352A; FR2602578A1; BE1001161A3

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