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(71) Applicant: AMBI-RAD LIMITED

Brierley Hill, West Midlands DY5 1QA (GB)

(72) Inventors:

- Eaves, Robert Nicholas West Midlands B63 1JB (GB)
- Herbert, Lee Brian Kinver StourbridgeDY7 6BZ (GB)
- (74) Representative: Croston, David et al Withers & Rogers, Goldings House,
 2 Hays Lane London SE1 2HW (GB)

(54) A radiant tube burner

(57) A radiant tube burner (10) comprising a burner tube, a fuel inlet (18) arranged to receive fuel from a supply (16) and to supply fuel to the burner, an air inlet for receiving combustion air, a mixing chamber (30) and a burner head (32), the fuel inlet being arranged to supply fuel to the mixing chamber upstream of the burner head and the air inlet comprising primary air inlet means (22) for providing a turbulent air flow into the mixing chamber upstream of the burner head and secondary

air inlet (24) means for providing a substantially non-turbulent air flow downstream of the burner head.

A method of operating a radiant tube burner, the burner comprising a fuel supply, an air inlet, a fuel air mixing chamber and a burner head, the method comprising the steps of supplying fuel to the mixing chamber, providing a primary turbulent air flow to the mixing chamber to mix fuel and air, burning the fuel/air mixture at the burner head and providing a secondary substantially non-turbulent air flow downstream of the burner head.

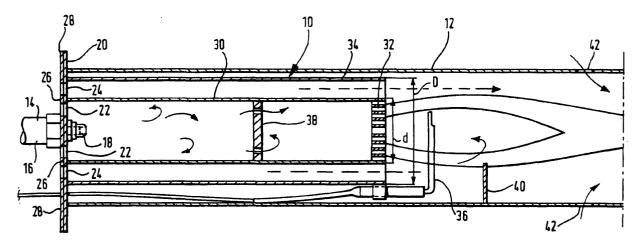


FIG.2.



EUROPEAN SEARCH REPORT

Application Number EP 01 20 4849

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