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54 **Radiant heater.**

57 The present invention provides a high output radiant heater which uses a heat exchanger to obtain a variety of types of heat from a single power source. The heater is comprised of a housing; a combustion chamber in the housing, the combustion chamber defining a central axis and having an intake end having an intake opening thereat and an exhaust end having a discharge opening thereat, the chamber defining a flow passage for products of combustion along the central axis; a heat exchange chamber surrounding the intake end of the combustion chamber; a heat exchanger disposed within the heat exchange chamber; radiator means defining the exhaust end of the combustion chamber for radiating heat radially outwardly of the exhaust end of the combustion chamber, the radiator having a plurality of fluid flow passages disposed in planes containing the central axis, each of the passages having an inlet end communicating with the combustion chamber and an outlet end opening into the heat exchange chamber, whereby products of combustion enter the passage inlets and flow therealong and into the heat exchange chamber; and reflector means surrounding the radiator means for reflecting axially outwardly of the housing heat radiated by the radiator means.

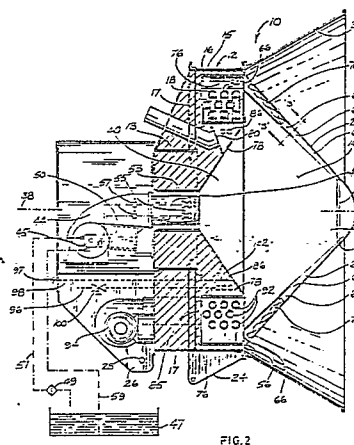


FIG. 2



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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	FR-A-2 174 789 (BROLA) * Whole document * ---	1-4	F 24 C 1/08 F 24 C 3/14 F 24 C 1/14
Y	US-A-3 763 847 (GUZDAR) * Column 6, lines 6-21; figures * ---	1-4	
A	FR-A-2 267 524 (FLORARM) * Page 5, claims; figure 1 * ---	1	
A	US-A-3 805 763 (COWAN) * Page 1, abstract * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 24 C F 23 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26-04-1989	Examiner VANHEUSDEN J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			