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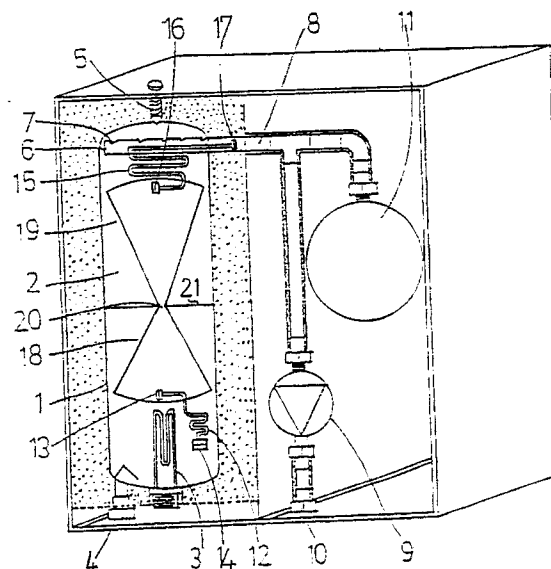
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(54) **Heating boiler.**

(57) The boiler which is the object of the present invention comprises a vertical metallic vessel (1) occupied by a mass of thermal fluid (2) and with connection pieces (4) connected to a closed heating circuit. The vessel houses two conical deflectors (18, 19) having vertical axis connected at their vertices and determining a zone of reduced cross section in the middle portion of the internal space of the vessel which comprises in its lower portion a heat generator of any kind (3) and a serpentine pipe (12) with valves (13, 14) at the ends thereof, and in the upper portion another serpentine pipe (15) with valves (16, 17) at the ends thereof, one of said valves being in correspondence with the base of the upper deflector and the other with the exit conduit. The head of the vessel also comprises an air discharge valve (5).

The invention is based on the improvement of the performance and the increase of energy which results from the zero-gravity within the installation system in case that the boiler is adapted to work under said conditions.

Thus, it is obvious that for obtaining the maximum efficiency of the boiler which is the object of the invention the disclosed system must function in a zero-gravity state.



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# EUROPEAN SEARCH REPORT

Application Number

EP 90 10 0849

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.5)
A	DE-U-8 716 241 (BUDERUS HEIZTECHNIK GMBH) * complete document * -----	1	F 24 H 1/00
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 24 H
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 14-01-1991	Examiner PIEPER C
<b>CATEGORY OF CITED DOCUMENTS</b> 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			