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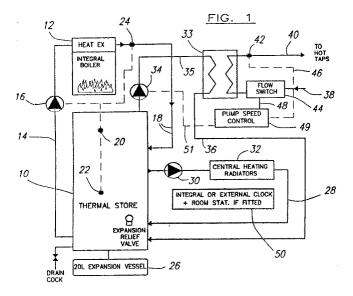
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(54) Improvements relating to heating apparatus

(57) The invention provides a heat exchange system wherein primary fluid (heated water) is circulated by means of a pump (34) through a heat exchanger (33) through which secondary fluid (water to be heated) is also circulated, and including sensing means (42, 47) for controlling the rate of heat supplied to the heat exchanger (33) via the primary fluid, characterised in that the sensing means (42, 47) comprises a temperature sensor means (42, 47) which is arranged to sense the rate of change of temperature of the primary and/or sec-

ondary fluid issuing from the heat exchanger (33). Preferably, there are two temperature sensors (42, 47) which respectively sense the rate of change of temperature of the secondary water and primary water such that in use, when a pre set rate of change of temperature in the secondary water is detected (showing that the secondary water is flowing), the pump (34) is switched on for the supply of hot primary water, and the rate of change of temperature of the primary water is used to control the pump (34) to control the temperature of the secondary water.





EUROPEAN SEARCH REPORT EP 99 11 5641

Application Number

ategory	Citation of document with indica of relevant passages	tion, where appropriate,	Relevant to claim	CLASSIFICA APPLICATIO	TION OF THE N (Int.Cl.7)
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				TECHNICAI SEARCHED	
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	The present search report has been			<u> </u>	
	Place of search THE HAGUE	Date of completion of the search 28 February 2000	Var	Examiner n Gestel,	Н
X:pa Y:pa do A:teo	CATEGORY OF CITED DOCUMENTS rticularly relevant if taken alone rticularly relevant if combined with another pument of the same category chnological background chr-written disclosure	T : theory or principl E : earlier patent doc after the filing dat D : document cited i L : document cited fe	e underlying the cument, but publice in the application or other reasons	invention ished on, or	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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 $\stackrel{\bigcirc}{\mathbb{L}}$ For more details about this annex : see Official Journal of the European Patent Office, No. 12/82