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(54) **Improvements in a solar boiler**

(57) A solar boiler provided with means for absorbing the volume changes of the thermal carrier fluid caused

by the expansion of the latter and inlet means of the thermal carrier fluid which has been discharged under over-pressure and/or high-temperature conditions.

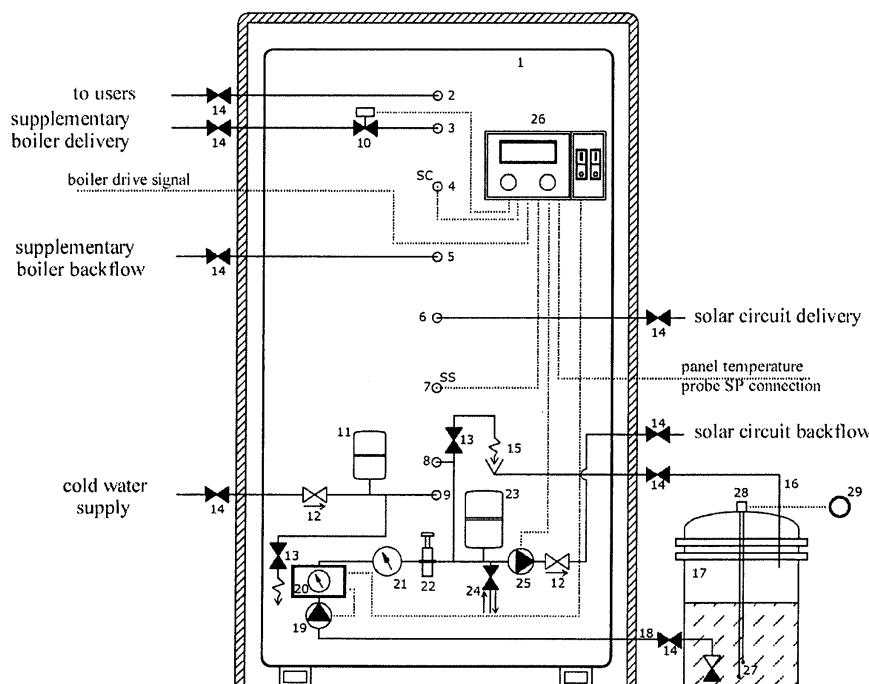


FIG. 1



European Patent
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EUROPEAN SEARCH REPORT

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EP 06 42 5165

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	GB 1 596 801 A (SUNSENSE LTD) 3 September 1981 (1981-09-03) * the whole document *	1,6,8, 12,13	INV. F24D3/10 F24J2/46
X	EP 0 543 285 A1 (SCHWARZ A & CO [AT]) 26 May 1993 (1993-05-26) * the whole document *	1-4,7,8, 12,13	
A	WO 95/20132 A (CNOSSEN JAN HENK [NL]) 27 July 1995 (1995-07-27) * abstract *	1-13	
A	WO 88/08943 A (SCHWARZ A & CO [AT]) 17 November 1988 (1988-11-17) * abstract *	1-13	
			TECHNICAL FIELDS SEARCHED (IPC)
			F24D F24J
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 14 August 2007	Examiner van Gestel, Harrie
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			

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

EP 06 42 5165

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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14-08-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1596801	A	03-09-1981	NONE	

EP 0543285	A1	26-05-1993	AT 399217 B	25-04-1995
			AT 232191 A	15-08-1994
			DE 59206033 D1	23-05-1996

WO 9520132	A	27-07-1995	CA 2181905 A1	27-07-1995
			EP 0740759 A1	06-11-1996
			NL 9400106 A	01-09-1995
			US 5718374 A	17-02-1998

WO 8808943	A	17-11-1988	AT 68868 T	15-11-1991
			CA 1323546 C	26-10-1993
			EP 0313599 A1	03-05-1989
			US 5007583 A	16-04-1991
