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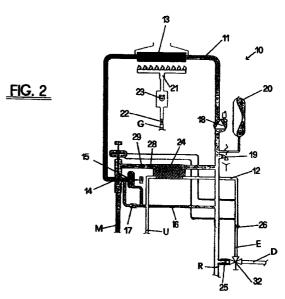
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(54) Water circuit of a combined service wall-mounted gas-fired boiler

(57)The water circuit (10) for a combined service wall-mounted gas-fired boiler includes a primary circuit (11) in which the hot water for room heating is circulated and a secondary circuit (12) in which hot water for domestic use is circulated. In order to fill with water the primary circuit (11) of the boiler and the room heating units connected thereto through pipes (M,R) a threeway valve (32) is provided. This valve (32) is arranged so as to connect the primary circuit (11) or the secondary circuit (12) to the water mains (D) or to disconnect both therefrom. When the filling with water of the primary circuit (11) and the room heating units is required, the three-way valve (32) connects the primary circuit (11) to the water mains (D), while during the normal operation of the boiler the three-way valve (32) connects the secondary circuit (12) to the water mains (D).



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EUROPEAN SEARCH REPORT

Application Number

EP 98 12 3350

Category	Citation of document with income of relevant passa	dication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
A	EP 0 829 687 A (WILC 18 March 1998 (1998: * column 1, line 3 * column 1, line 27 * column 3, line 38 * figures 1-3 *	-03-18) - line 5 * - line 33 *	1	F24H9/14	
A	DE 196 23 807 A (TOI 19 June 1997 (1997-0 * column 1, paragra * column 2, line 33 * column 5, line 18 * claim 2; figure 4	1			
A	DE 94 06 048 U (HEN); SCHROEDER ULRICH (16 June 1994 (1994-6* page 1, line 3 - * page 3, line 36 - * page 4, line 25 - * figure 1 *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7)		
A	EP 0 568 122 A (FUG 3 November 1993 (19 * column 1, paragra * column 6, line 29 * figure 1 *	93-11-03) ph 1 *		F24H	
	The present search report has b	peen drawn up for all claims	-		
	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	19 September 200	90 Mo	ugey, M	
X ; par Y : par doo A : tecl	ATEGORY OF CITED DOCUMENTS tioularly relevant if taken alone tioularly relevant if combined with anoth ument of the same category hnological background 1-written disolosure	L : document cited t	ocument, but pub ate in the application for other reasons	lished on, or	

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

EP 98 12 3350

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19-09-2000

Patent document cited in search repor	t	Publication date		Patent family member(s)	Publication date
EP 0829687	Α	18-03-1998	DE	19632604 A	19-02-199
DE 19623807	Α	19-06-1997	KR JP JP	169561 B 2761478 B 9159275 A	15-01-199 04-06-199 20-06-199
DE 9406048	U	16-06-1994	NON	E	
EP 0568122	Α	03-11-1993	IT DE DE ES	1254266 B 69306461 D 69306461 T 2096189 T	14-09-199 23-01-199 15-05-199 01-03-199

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82