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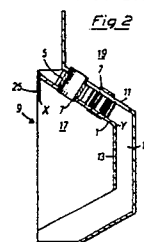
54 **Improvements relating to gas fires.**

**EP 0 267 746 A3**

57 The present specification discloses a gas fire incorporating a heat exchanger (1) for use in transferring heat from the gaseous products of combustion in the gas fire (9) to a path (15) through the fire (9) for convection air. In certain such gas fires the heat exchanger is of a complex and expensive construction.

The present invention provides a gas fire (9) with a simple and inexpensive heat exchanger (1). A number of these heat exchangers (1) are provided, each being in the form of a hollow tubular element (1) made of a thermally conducting material. Each

hollow tubular element (1) extends across a path (15) for convection air in the fire (9), and provides a passage therethrough for gaseous combustion products passing to a flue at the rear (19) of the fire (9). To aid heat transfer fins (5) can be provided on the outside of the hollow tubular element (1).





EP 87 30 9822

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)
X	DE-C- 186 014 (LUERKEN) * page 1, line 61 - page 2, line 4; figure 1 * ---	1,7,9	F 24 C 1/14 F 24 C 3/00 F 24 C 3/02 F 24 C 15/32
X	GB-A-1 041 223 (OATLEY TECHNICAL DEVELOPMENTS LTD.) * page 1, lines 67-79; page 2, lines 5-19 *	1,2,6	
Y	---	3,10	
Y	GB-A- 843 026 (R. & A. MAIN LTD.) * page 2, line 107 - page 3, line 14 *	3,10	
X	GB-A-2 123 944 (BEARDMORE) * page 1, lines 54-82; figure 3 * -----	1,2,7,9	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			F 24 C 1/00 F 24 C 3/00 F 24 C 15/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 08-06-1989	Examiner PIEPER C
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			