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Gas fire.

n a gas fire, the radiant heat output from imitation coal pieces 2 caused to radiate by flames from a burner 1 is supplemented by convective air drawn into the base of the fire and passing through duct 6 before emerging through outlets 7, the duct being transversed by flue tubes 8, 9, 10, 11 to which combustion gases from the burner pass in the direction of the arrows B.

A problem with such a fire is if the flue outlet 12 become blocked because the flow of gases reverses direction relative to the arrows B and the burner then combusts within unsafe limits if the doors 4, 5 are closed. To overcome this some of the flue tubes 8, 10 are provided with openings 10a, partially shielded by shield 22, to allow escape of recirculating combustion products into the convection duct, thereby allowing the burner to continue operation in safe limits in the event of flue blockage.

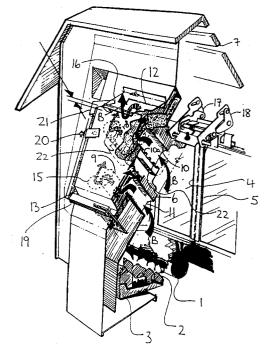


Fig 1.



EUROPEAN SEARCH REPORT

EP 91 30 8662

Category	Citation of document with indicate of relevant passage		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
A	US-A-2 789 554 (DUPLER)		, 3	F24C3/10	
	* claims 1,2; figures *	[-	,	F24C3/00	
				F24B1/18	
A	GB-A-2 177 490 (TAYLOR-ECO	OMIC) 1			
	* the whole document *				
A	GB-A-1 488 479 (UNITED GAS	INDUSTRIES)			
			!	TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
				F24B	
		ł		F24C	
				F23D	
	The present search report has been to	lrawn up for all claims			
Place of search		Date of completion of the search	Examiner		
THE HAGUE		14 SEPTEMBER 1992	VANHEUSDEN J.		
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		E : earlier patent docum after the filing date D : document cited in t	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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