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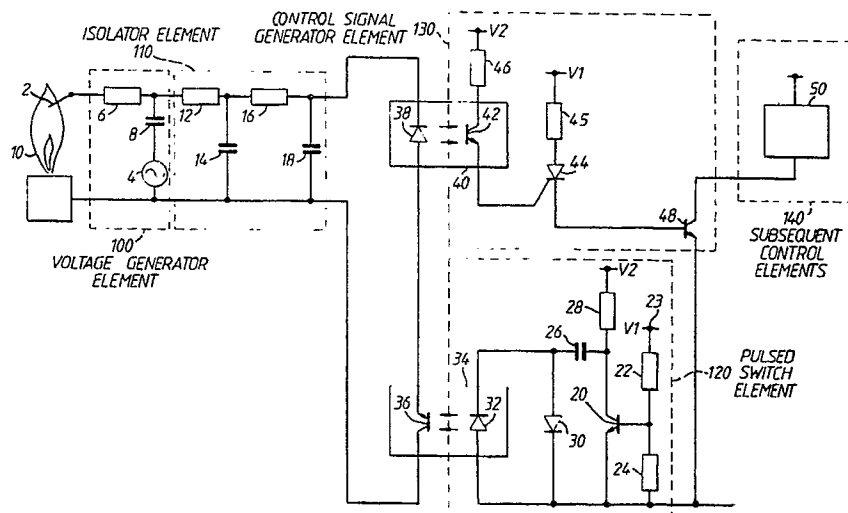
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Flame detection apparatus and method.

Apparatus and methods are described for the detection of the presence of a flame (10), the apparatus including circuit means for applying an alternating voltage to a flame probe (2) such that the alternating voltage is partially rectified in the presence of a flame (10) at the probe (2) resulting in the development of a DC voltage component. The DC voltage component causes the accumulation of a

corresponding electrical charge in a storage element (18), the apparatus includes means (120,36) for periodically releasing the charge. An optical coupling means (40) is responsive to the released charge to initiate a control signal in a control signal generator (130), the control signal indicating detection of the flame (10).





European Patent
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EUROPEAN SEARCH REPORT

Application Number

EP 90 30 2390

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.5)
Y	DE-A-1526255 (MAY & CHRISTE) * the whole document * ---	1, 7, 9	F23N5/12
Y,D	GB-A-1419653 (WALTER KIDDE) * the whole document * ---	1, 7, 9	
A	US-A-4370125 (DONNELLY) ---		
A	US-A-3348104 (ZIELINSKI ET AL.) ---		
A	PATENT ABSTRACTS OF JAPAN vol. 4, no. 150 (M-37)(632) 22 October 1980, & JP-A-55 102826 (TOKYO SHIBAURA) 06 August 1980, * the whole document * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F23N
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 FEBRUARY 1991	Examiner KOOIJMAN F.G.M.
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			