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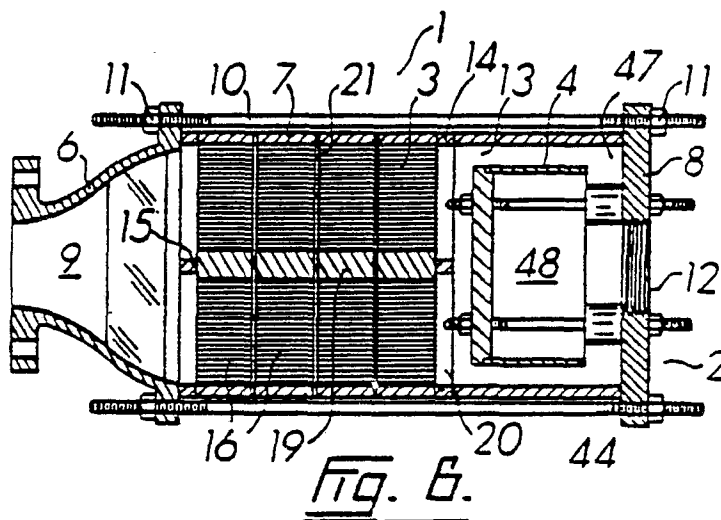
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Halifax West Yorkshire HX1 2HY(GB)(54) **Flame arrester.**

(57) A flame arrester (1) for a pipe line (5) is provided comprising a detonation attenuator (4) mounted within an arrester chamber (13) between a quenching element (3) and a backflash flame inlet (12). The attenuator (4) is generally cup-shaped, aligned with the inlet, of greater diameter than the inlet but of lesser diameter than the arrester chamber, and is positioned close to the inlet so as to circumscribe it.

The major portion of the high pressure central portion of a detonation wave generated by a backflash is received by the cup and reflected back into the pipe. Some of the detonation wave passes around the cup and impinges on the arrester element - however it has been delayed sufficiently to ensure complete quenching of the flame front in the element.



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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	US-A-1960043 (ANSCHICKS) * claim 1; figures 1-4 * ---	1-4, 6, 7	A62C4/02
Y	DE-C-482406 (WERNER HANDELSGESELLSCHAFT) * the whole document * ---	1-4, 6, 7	
A	FR-E-26558 (GAUMER) * the whole document * ---	5	
A	DE-A-1429088 (NEUMANN) ---		
A	DE-A-2436206 (DIE ERBEN DES SMETANCA) ---		
A	GB-A-368680 (WOLF) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			A62C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19 JUNE 1990	Examiner DIMITROULAS P.
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	