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Improvements in ventilators.

A controllable fire ventilator has opening springs (13) and dual day-to-day controls one of which is a pneumatically operable piston-and-cylinder unit (20) and the other of which is an electro-magnetic device (30) which retains a keeper plate (33) when the device is energised. The unit (20) may be powered to close the ventilator when the ventilator is open, the control cable (22) carrying the keeper plate (33). Fire response may be by means of a fusible link (35). In an alternative arrangement (see Fig. 3), the

electro-magnetic device (30) is incorporated into the cylinder (121) of the cylinder unit and the piston (126) carries the keeper plate (33). A fire switch (140) may open in response to an electrically signalling fire detection system, the cylinder unit (120) being exhausted to atmosphere through its power connection (122) by valve means adjustable only upon operation of a sprinkler system, to avoid ventilator opening in response to false alarms.

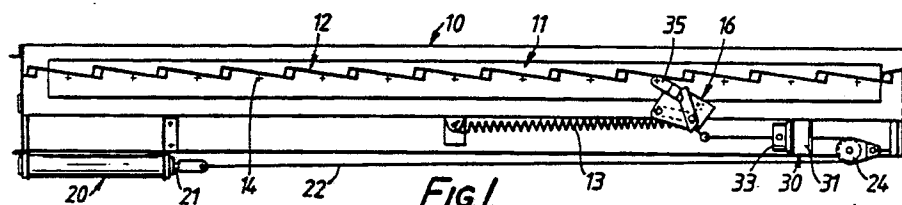


Fig. 1.



European Patent
Office

EUROPEAN SEARCH REPORT

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EP 88 31 2092

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)
A	FR-A-2 511 128 (PANOL) * Page 4, line 11 - page 5, line 15; figure *	1	F 24 F 13/15
A	EP-A-0 244 191 (COLT)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 24 F A 62 C F 15 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26-03-1990	Examiner PESCHEL G.
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			