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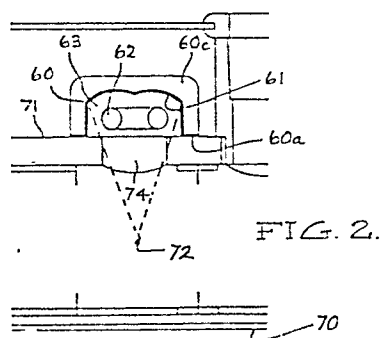
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54 **Optical smoke detectors.**

57 A flash reflector (60) for maximising the intensity of light passing into an air sampling chamber (70) of a smoke detector which enables a reduction in power requirements for the light source. The reflector (60) includes a concave reflection element (61) to focus light from each infinitesimal cross-sectional element of the arc of ionized gas in a flash tube (62), the light output from the whole length of the tube which is optionally of U-shape being focused into the central region (72) of the sampling chamber.





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EUROPEAN SEARCH REPORT

0135362

Application number

EP 84 30 5514

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-2 348 502 (W. LUDERITZ) * Page 5, lines 1-12; claims; figures 1,5 *	1	G 01 N 21/53 G 08 B 17/10
A	FR-A-2 334 097 (S.T.) * Claims; figures *	1,3	
A	US-A-2 812 686 (D. SINCLAIR) * Claims *	1,3,4	
A	DE-A-2 624 977 (H. RUMPF) * Claims *	1	
A	FR-A-2 503 329 (KAISER) * Claims *	1	
A	DE-A-1 797 079 (ELBE-KAMERA GmbH) * Figure *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) G 02 B G 01 N G 08 B F 21 V F 21 S G 03 B H 01 J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24-03-1986	Examiner PFAHLER R.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			