

12 **EUROPEAN PATENT APPLICATION**

21 Application number: 89305902.2

51 Int. Cl.⁵: **G08B 17/10**

22 Date of filing: 12.06.89

30 Priority: 10.06.88 GB 8813811

43 Date of publication of application:
13.12.89 Bulletin 89/50

84 Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

88 Date of deferred publication of the search report:
03.10.90 Bulletin 90/40

71 Applicant: **Cairney, James**
Unit 1, Block 1
Brownsburn Industrial Estate Airdrie ML6
9SE(GB)

Applicant: **Bryce, Alex Peacock**
Unit 1 Block 1
Brownsburn Industrial Estate Airdrie ML6
9SE(GB)

Applicant: **Murray, Melvin Ingram**
Unit 1, Block 1
Brownsburn Industrial Estate Airdrie ML6
9SE(GB)

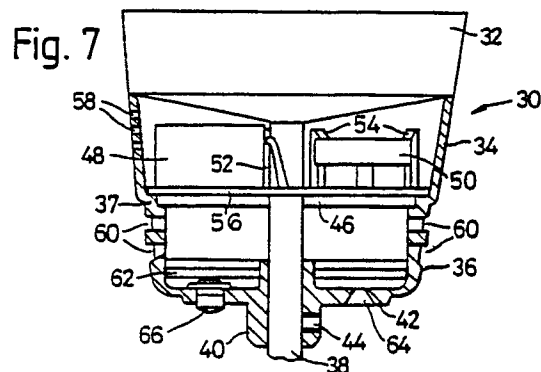
72 Inventor: **Cairney, James**
UNIT 1, Block 1 Brownsburn Industrial Estate
Airdrie ML6 9SE(GB)
Inventor: **Williams, Simon Rushbrook**
Microelectr. Educ.
Development Centre 8/14 Storie Street
Paisley PA1 2BX(GB)

74 Representative: **Fitzpatrick, Alan James et al**
Fitzpatricks 4 West Regent Street
Glasgow G2 1RS Scotland(GB)

54 **Smoke detector devices and detector circuit.**

57 A smoke detector device comprises a housing (30) adapted to be mounted below an existing ceiling rose fitting (32) and to be clamped to an electrical flex (38) passing therethrough. The housing (30) encloses a smoke detector circuit formed on a printed circuit board (62), a battery (48) and an alarm sounder (50). The device is intended particularly for use in domestic environment, and is intended unobtrusive and inexpensive. An alternative embodiment includes a housing adapted to replace existing ceiling rose fittings; A novel photoelectric-type detector circuit, incorporating an integrated circuit and high intensity light emitting diode, is also described, which again is intended to be compact and inexpen-

sive.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 89 30 5902

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)
X	US-A-4 090 178 (E.G. NORRIS) * figures 1,2A,2B; abstract; column 6, lines 10-12 *	1	G 08 B 17/10
A	---	2-7,10, 17,21, 22	
X	GB-A-2 008 871 (ESB INTERNATIONAL CORP.) * figures 1,2; abstract; page 1, line 64 - page 2, line 3; page 5, line 59 - page 6, line 3 *	1	
A	---	11,20	
A	US-A-4 087 799 (F. BROUWER) * figure 1; abstract; column 5, line 66 - column 6, line 8 *	12,13, 19,20	
A	---		
A	US-A-4 539 556 (S.S. DEDERICH et al.) * figure 4; abstract; column 5, lines 10-19, column 5, line 67 - column 6, line 41 *	13,17, 18,21, 22	

The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 04-07-1990	Examiner DANIELIDIS S
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			