



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 901 113 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.12.1999 Bulletin 1999/52

(51) Int Cl.⁶: **G08B 29/18**, G08B 17/10

(43) Date of publication A2:
10.03.1999 Bulletin 1999/10

(21) Application number: **98306527.7**

(22) Date of filing: **17.08.1998**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Amlani, Manhar**
Newport, Gwent, NP9 5AG (GB)

(74) Representative: **Evans, Huw David Duncan**
Urquhart-Dykes & Lord,
Three Trinity Court,
21-27 Newport Road
Cardiff CF2 1AA (GB)

(30) Priority: **03.09.1997 GB 9718547**

(71) Applicant: **Amlani, Manhar**
Newport, Gwent, NP9 5AG (GB)

(54) **Insect repulsion**

(57) A fire alarm system comprising a plurality of remote alarm transducers 11, each incorporating a smoke and/or heat sensor 20 and a sounder 22. The sounders 22 emit a high frequency sound that deters insects from

entering the transducers 11 and from causing false alarms or faults. In a preferred embodiment, the sounders 22 are also arranged to emit an alarm signal in the event that smoke or heat is detected.

EP 0 901 113 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 30 6527

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.6)
X	GB 2 218 552 A (PENHEIRO LAWRENCE VIVIAN) 15 November 1989 (1989-11-15) * the whole document *	1,2	G08B29/18 G08B17/10
X	US 5 189 393 A (HU CHARLES C) 23 February 1993 (1993-02-23) * the whole document *	1	
A	US 3 891 962 A (WHITE HERBERT MONTGOMERY) 24 June 1975 (1975-06-24) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G08B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 4 November 1999	Examiner Kelperis, K
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			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 30 6527

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-11-1999

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2218552	A	15-11-1989	NONE	
US 5189393	A	23-02-1993	NONE	
US 3891962	A	24-06-1975	AU 4743872 A	11-04-1974
			US 3886492 A	27-05-1975