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(54) **Signalling device and monitoring system**

(57) A signalling device, such as a fire detecting device, has a head (2) which is removable from a base (1). The head has circuit means (4,5,6) for sensing and signalling a change in given condition. The base is connected to supply lines and has fault signalling means (3) for generating a fault signal due to head removal or some other device fault. As the same signal is generated in each case, the invention provides an economic, sim-

ple and reliable solution to the problem of signalling fault conditions. Preferably, the fault signalling means includes a first circuit (3) in the base (1) which responds to an output from a second circuit (7) in the head (2) so that, if the head is not fitted to the base, the first circuit (3) responds to the absence of said output from the second circuit (7) in order to apply the fault signal to the lines.

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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 7216

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.7)
Y	GB 2 313 690 A (RAFIKI PROTECTION LIMITED) 3 December 1997 (1997-12-03) * page 1, line 19-21,27-33 * * page 2, line 30-35 * * page 3, line 1-4,10-25 * * page 4, line 1-5,12-17,24-34 * * page 5, line 1-10 * * figures 1,2 *	1,5,6,9,10	G08B29/06
Y	EP 0 253 709 A (FERCO INT USINE FERRURES) 20 January 1988 (1988-01-20) * figure 3 * * column 1, line 1-20 * * column 3, line 30-50 *	1,5,6,9,10	
A	US 5 440 293 A (TICE LEE D) 8 August 1995 (1995-08-08) * figures 1-4 * * column 1, line 1-10 * * column 2, line 60-70 * * column 4, line 30-65 *	1,5,6,9,10	
A	US 4 369 435 A (ADACHI YASABURO ET AL) 18 January 1983 (1983-01-18) * figures 4,16,17,19,21-24 * * column 1, line 5-20 * * column 4, line 25-35 * * column 7, line 1-20 * * column 11, line 1-5 *	2-4,7	G08B G01D
A	US 5 798 692 A (CRISPIE FINBARR J ET AL) 25 August 1998 (1998-08-25) * column 3, line 45-55 *	8	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 November 2000	Examiner Coffa, A
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			

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

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The members are as contained in the European Patent Office EDP file on
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17-11-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2313690 A	03-12-1997	NONE	
EP 0253709 A	20-01-1988	FR 2601483 A DK 358687 A FI 872835 A JP 63020599 A NO 872641 A	15-01-1988 12-01-1988 12-01-1988 28-01-1988 12-01-1988
US 5440293 A	08-08-1995	NONE	
US 4369435 A	18-01-1983	JP 1231164 C JP 56021294 A JP 59005955 B AT 388060 B AT 390180 A AU 533234 B AU 6060680 A CH 659334 A DE 3028395 A FR 2462749 A GB 2055236 A,B	26-09-1984 27-02-1981 08-02-1984 25-04-1989 15-09-1988 10-11-1983 29-01-1981 15-01-1987 12-02-1981 13-02-1981 25-02-1981
US 5798692 A	25-08-1998	NONE	