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(30) Priority: 30.01.1998 JP 1889598	
(71) Applicant: MITSUBISHI MATERIALS CORPORATION Chiyoda-ku, Tokyo (JP)	
(72) Inventors: - Mori, Tomohiro c/oMitsubishi Materials Co. Omiya-shi, Saitama-ken (JP) - Endo, Takanori c/oMitsubishi Materials Co. Omiya-shi, Saitama-ken (JP)	(74) Representative: Türk - Gille - Hrabal - Struck Patentanwälte - European Patent Attorneys, Brucknerstrasse 20 40593 Düsseldorf (DE)

(54)

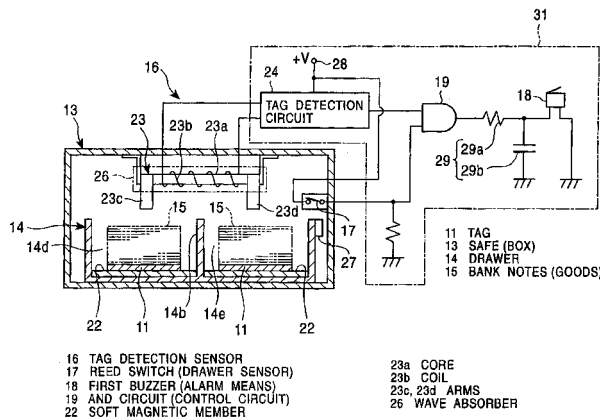
Electric wave type burglar detection apparatus

(57) It is possible to be installed in a comparatively small space, to prevent a malfunction even if this apparatus is installed in a location where there is plenty of electrical noise, and to surely detect presence and absence of a tag even if the tag is located near a metal object.

A tag 11 having a resonance circuit block is con-

tained with an object 15 in a drawer 14, and this drawer 14 is contained in a box 13. A tag detection sensor 16 installed in the box 13 detects whether the tag 11 is present in the drawer 14, and a drawer sensor 17 detects whether the drawer 14 is drawn. On the basis of respective detection outputs of the tag detection sensor 16 and drawer sensor 17, a control circuit 19 controls alarm means 18.

FIG. 1





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 99 10 1906

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	US 5 406 262 A (HERMAN FRED W ET AL) 11 April 1995 (1995-04-11) * the whole document *	1	G08B13/24
A	GB 2 230 164 A (MARCONI ELECTRONIC DEVICES) 10 October 1990 (1990-10-10) * the whole document *	1-3	
A	US 3 938 044 A (LICHTBLAU GEORGE JAY) 10 February 1976 (1976-02-10) * the whole document *	1-3	
A	US 3 828 341 A (CARTER C ET AL) 6 August 1974 (1974-08-06) * the whole document *	1-3	
			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 19 October 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			

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

EP 99 10 1906

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The members are as contained in the European Patent Office EDP file on
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19-10-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5406262 A	11-04-1995	NONE	

GB 2230164 A	10-10-1990	AU 5184790 A	26-09-1990
		EP 0413803 A	27-02-1991
		WO 9010280 A	07-09-1990

US 3938044 A	10-02-1976	CA 1015058 A	02-08-1977
		DE 2442776 A	18-09-1975
		FR 2251059 A	06-06-1975
		GB 1453754 A	27-10-1976
		IT 1014484 B	20-04-1977
		JP 50081455 A	02-07-1975

US 3828341 A	06-08-1974	AR 195997 A	23-11-1973
		AU 476232 B	16-09-1976
		AU 5102073 A	11-07-1974
		BE 794184 A	18-07-1973
		CA 990379 A	01-06-1976
		DE 2302701 A	26-07-1973
		DK 138769 B	23-10-1978
		ES 410792 A	01-12-1975
		FR 2168517 A	31-08-1973
		GB 1364349 A	21-08-1974
		IT 976929 B	10-09-1974
		JP 1093226 C	16-04-1982
		JP 48083799 A	08-11-1973
		JP 56036477 B	24-08-1981
		NL 7300749 A,B,	24-07-1973
		SE 385056 B	31-05-1976
		ZA 7300145 A	26-09-1973
