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Europäisches Patentamt
European Patent Office
Office européen des brevets

11 Publication number:

0 177 068
A1

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EUROPEAN PATENT APPLICATION

21 Application number: 85200850.7

51 Int. Cl.⁴: G 08 B 3/06

22 Date of filing: 28.05.85

30 Priority: 02.10.84 GB 8424801

43 Date of publication of application:
09.04.86 Bulletin 86/15

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

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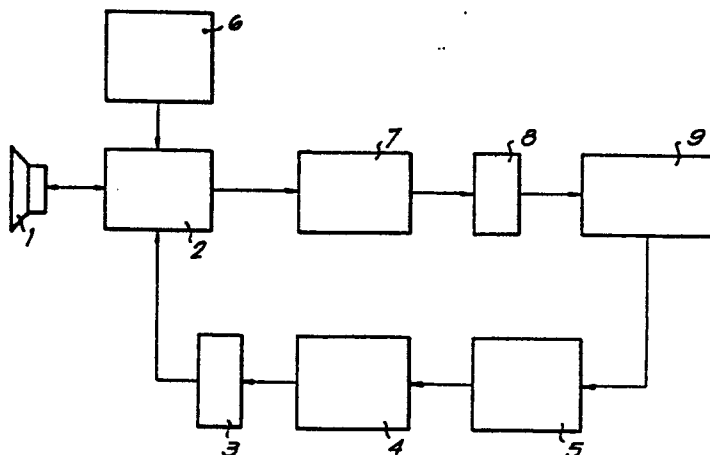
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54 Warning devices.

57 A device including means (1) responsive to sound in a
given frequency band and a sound emitted actuated in

response to the frequency responsive means to emit sound
for a predetermined time.



"Warning devices".

This invention relates to warning devices, to give an audible signal when suitably actuated.

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The invention provides a device including means responsive to sound in a given frequency band and a sound emitted actuated in response to the frequency responsive means to emit sound for a predetermined time.

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A preferred frequency band for the responsive device is 1600 Hz to 2200 Hz.

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In one example of the invention, the device is part of a key ring. If the key ring is lost a whistle at a frequency to which the responsive means reacts will set off sound emission to guide the owner to his lost keys.

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Referring to the drawing, which is a circuit diagram illustrating one example of the invention, a piezo-electric microphone device 1 responds to sound of frequency about 1,800 Hz (say within an octave bracketing this frequency). Response by the device 1 actuates a control logic circuit 2, and thence, by way of filter 3 and amplifier 4 an audio generator 5.

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The logic circuit 2 also controls a timer 6, and this controls the audio generator through amplifier 7, filter 8 and memory and programming control circuit 9.

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A response by the device 1 causes generation of intermittent sound of lower frequency, for a given period, e.g. like a conventional "beeper". A further whistle of the appropriate frequency will cause the generator to repeat the performance.

A power supply not shown is included, in the form of batteries producing 3 volts D.C. Elements of the circuit can be part of an integrated circuit or "chip".

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A lost set of keys may be located in the dark, or in a hidden corner, by this device. The device may be used to locate any item that could go missing, for example animals or children. A child could wear the device as a pendant.

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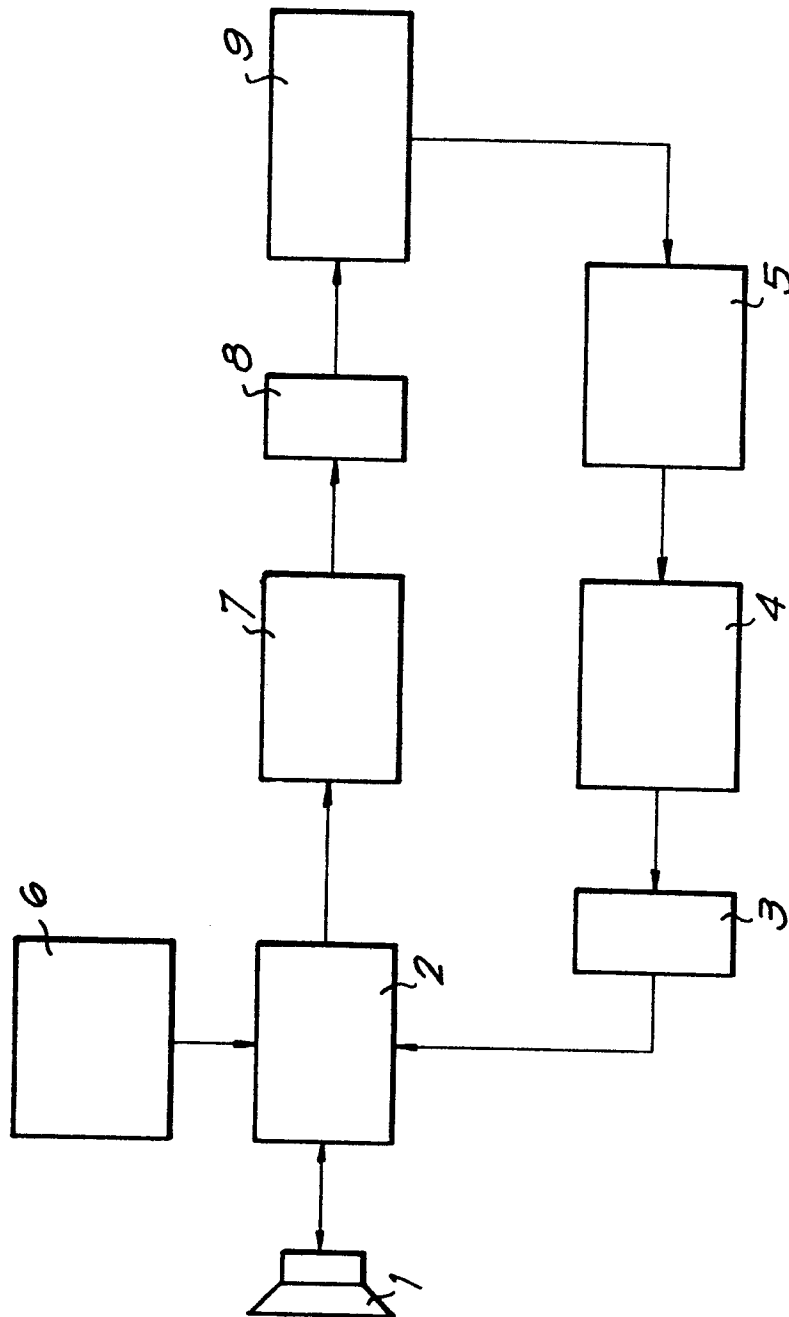
The device may generate a sequence of musical notes, but not in the frequency band to which the piezo-electric microphone responds.

20 The device may be combined with a watch, say having a L.C.D. display.

Claims.

- 1.- A device including means (1) responsive to sound in a given frequency band and a sound emitted actuated in response to the frequency responsive means to emit sound for a predetermined time.
- 2.- A device as claimed in claim 1, wherein the device is responsive to a frequency in the region of 1,800 Hz.
- 3.- A device as claimed in claim 1 or claim 2, wherein the responsive means (1) is a piezo-electric device.
- 4.- A device as claimed in any of claims 1 to 3, wherein the sound emitter (1) emits a series of "beeps".
- 5.- A device as claimed in any of claims 1 to 4, wherein the device is part of a key ring or pendant.

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DOCUMENTS CONSIDERED TO BE RELEVANT			EP 85200850.7
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	WO - A1 - 82/01 780 (UNIVERSITY OF STRATHCLYDE) * Abstract; claims 1-27; page 10, last paragraph * --	1,4,5	G 08 B 3/06
X	DE - A1 - 3 300 355 (WEISS-KÖHLER) * Claims 1,3,5 * --	1	
A	EP - A2 - 0 106 827 (LIENARD VAN LIDTH) * Abstract * --	1,5	
A	US - A - 4 101 873 (ANDERSON) * Abstract * --	1,5	
P,X	WO - A1 - 84/03 973 (JEFFREY-SMITH) * Abstract * --	1,2,3,5	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
P,X	WO - A1 - 85/00 233 (BKO, INC.) * Abstract * ----	1,2,3,4,5	G 08 B
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 13-08-1985	Examiner FRANZ
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	