H. A. FORD.

DETONATING ALARM.

APPLICATION FILED FEB. 17, 1912.

1,047,778. Patented Dec. 17, 1912.

Fig. 1.

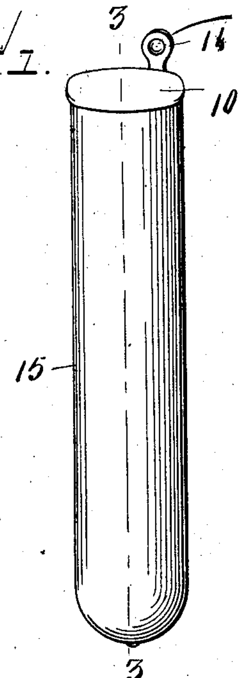


Fig. 3.

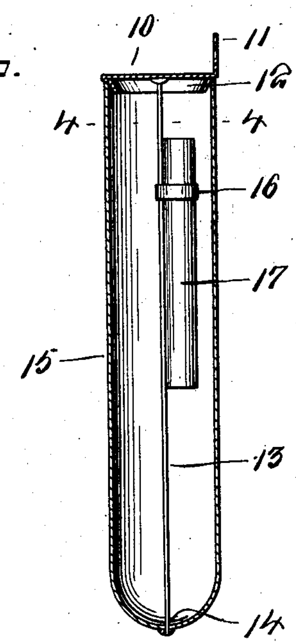


Fig. 2.

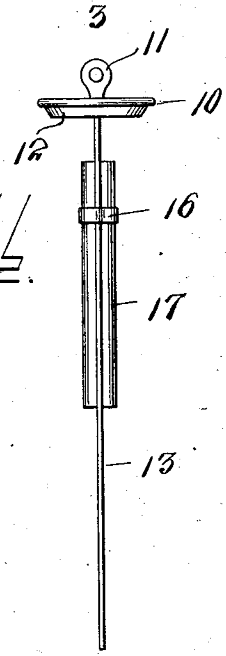
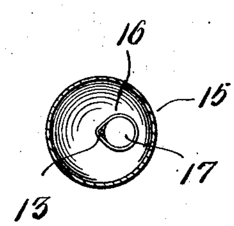


Fig. 4.



Witnesses

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DETONATING ALARM.

1,047,778. Specification of Letters Patent. Patented Dec. 17, 1912.

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To all whom it may concern:

Be it known that I, HUGH A. FORD, a citizen of the United States, residing at Charlottesville, in the county of Albemarle and State of Virginia, have invented new and useful Improvements in Detonating Alarms, of which the following is a specification.

An object of the invention is to provide a device for giving an alarm in case of fire.

The invention embodies, among other features, a device which is adapted to be mounted within a dwelling or other structure, the said device being provided with a casing which will be released when subjected to heat to expose a cartridge adapted to explode when the heat of the fire becomes sufficiently intense.

In the further disclosure of the invention, reference is to be had to the accompanying drawings constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a perspective view of the device, showing the same in applied position. Fig. 2 is a front elevation showing the casing removed. Fig. 3 is a vertical sectional view taken on the line 3—3 in Fig. 1. Fig. 4 is a horizontal sectional view taken on the line 4—4 in Fig. 3.

Referring more particularly to the views, use is made of a cap 10 provided with an upwardly extending apertured flange 11, the mentioned cap being provided with an inclined downwardly extending edge 12 to produce a frusto-conically shaped. Secured to the under side of the cap 10 is a retaining member 13, preferably a wire or the like, the lower end of the said retaining member being adapted to project through an aperture 14 formed in the lower end of the casing 15 and having the upper end thereof inclosing the inclined edge 12 of the cap 10, the lower end of the retaining member 13 being soldered to the exterior side of the casing 15 after the retaining member has been passed through the aperture 14 thereof as shown in the views. Rigidly secured to the retaining member 13, within the casing 15, by a band 16, is a cartridge 17.

In the use of the device a nail is passed through the aperture in the flange 11 with the pointed end of the nail inserted in the wall of a building to support the cap 10, the casing 15 being held in engagement with the cap 10 by the retaining member 13 having the lower end thereof passed through the aperture 14 and secured to the exterior side of the casing by means of suitable solder. If the fire should occur in a building near where the device is mounted, when the heat becomes sufficiently intense, the solder securing the retaining member to the casing will be melted, thus causing the casing to fall to the floor and expose the cartridge 17, said cartridge being then exploded by the action of the heat of the fire, thus alarming the inmates of the house, to inform them of their apparent danger.

The cap 10 is preferably made of an integral piece of stamped material and the casing 15 can likewise be stamped from an integral piece of material so that the entire device can be made very cheaply and easily to produce the desired result, thus presenting an efficient commercial article.

I claim:—

1. In a device of the class described the combination with a cap, of a retaining member secured thereto and depending therefrom, a casing, a fusible connection between the said casing and the said retaining member for normally retaining the casing in engagement with the said cap and a cartridge mounted within the said casing and secured to the said retaining member.

2. As an article of manufacture, a cap, means for supporting the cap, a retaining member mounted to depend from the said cap, a casing, a fusible connection between the said casing and the said retaining member, a cartridge mounted within the said casing and a band mounted to encircle the said cartridge and said retaining member to retain said cartridge in rigid position within the casing.

In testimony whereof I affix my signature in presence of two witnesses.

HUGH A. FORD.

Witnesses:

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