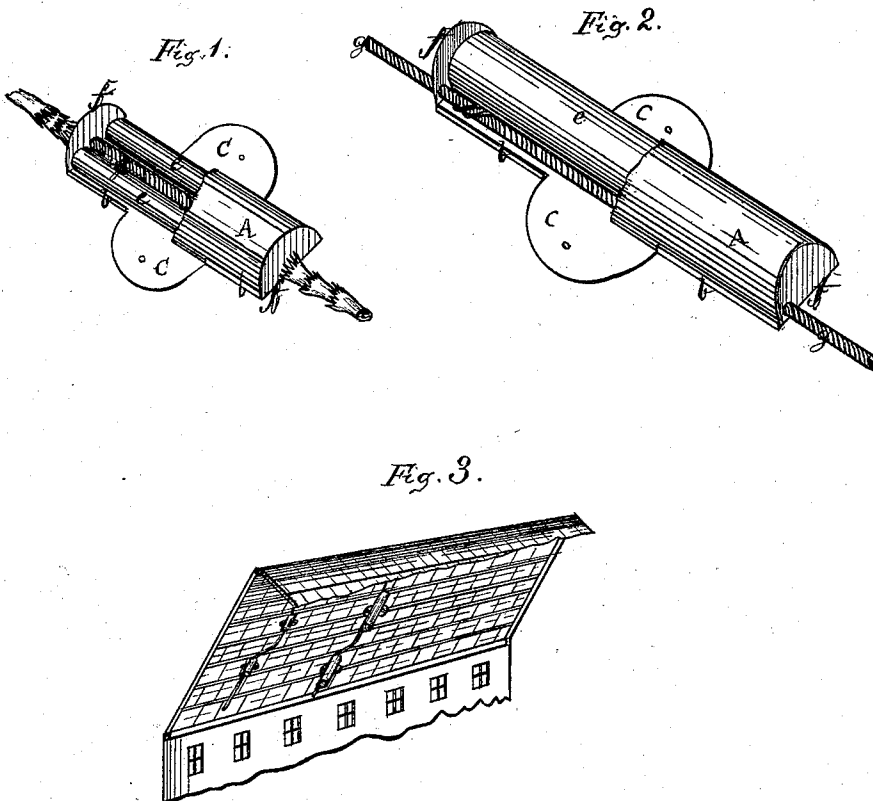


H. N. SHULTZ.

Fire Alarm.

No. 113,460.

Patented Apr. 4, 1871.



Witnesses:

Chas. Jacobo

C. Alexander

Inventor:

Horatio N. Shultz.

Per

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Atty.

United States Patent Office.

HORATIO N. SHULTZ, OF MECHANICSTOWN, MARYLAND.

Letters Patent No. 113,460, dated April 4, 1871.

IMPROVEMENT IN FIRE-ALARMS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HORATIO N. SHULTZ, of Mechanicstown, in the county of Frederick and State of Maryland, have invented certain new and useful Improvements in Fire-Alarms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification, in which—

Figure 1 represents a perspective view of my fuse, with a part of the casing removed.

Figure 2 is a similar view of the casing, with the fuse placed near one side instead of the middle.

Figure 3 is a perspective of the under side of a roof with the fuses in position.

The nature of my invention consists in the construction and attachment of one or more fuses to the under side of a roof, the said fuses being made and adjusted in the manner and for the purpose set forth.

Fig. 1 represents the smaller and fig. 2 the larger-size casing, in which the fuses are to be adjusted.

A designates the casing in which the fuses are placed, and is formed of the longitudinal section of a cylinder having its edges resting on the plate *f*, the said plate being furnished with flanges *b* so as to hold A in position.

The plate *f* will be cut in a semicircle at its ends and bent upward so as to fit and close the openings at the ends of casing A.

C represents two wings extending from plate *f*. Through said wings nails are driven to secure the casing to the under side of the roof.

g designates a fuse, which may be passed through and

project beyond the ends of plate *f*, near the side of said plate, as seen in fig. 2, or at the center, as in fig. 1.

On each side of the fuse *g* will be placed a fire-cracker, *e*, (see fig. 1,) which will explode the moment the fire from the fuse reaches them.

In fig. 2 it will be observed that the fuse is placed near the outer edge of the case A, and there comes in contact with the large cracker which fills the casing A.

The casing of my fire-alarm may be made from two feet to ten or more in length, and the explosive material of similar proportions.

In using my fire-alarms they will be secured to the under part of the roof of any building at such localities as may be most exposed to take fire, and any number may be used that will give the desired security.

In order that the fuse may be more readily ignited the projecting ends may be incased in shreds of tissue-paper, as seen in fig. 1.

By the explosion of the crackers in the manner described the alarm of fire will be given and measures promptly used to extinguish it.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

A metal casing, as described, when containing one or more fire-crackers and fuse, the whole arranged and operating in the manner and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

Witnesses: HORATIO N. SHULTZ.

FRANCIS C. GILDS,
JOSIAH DANUTH.