No. 778,010. PATENTED DEC. 20, 1904.

D. B. COATES.

ALARM.

APPLICATION FILED FEB. 17, 1904.

NO MODEL.

FIG. 1.

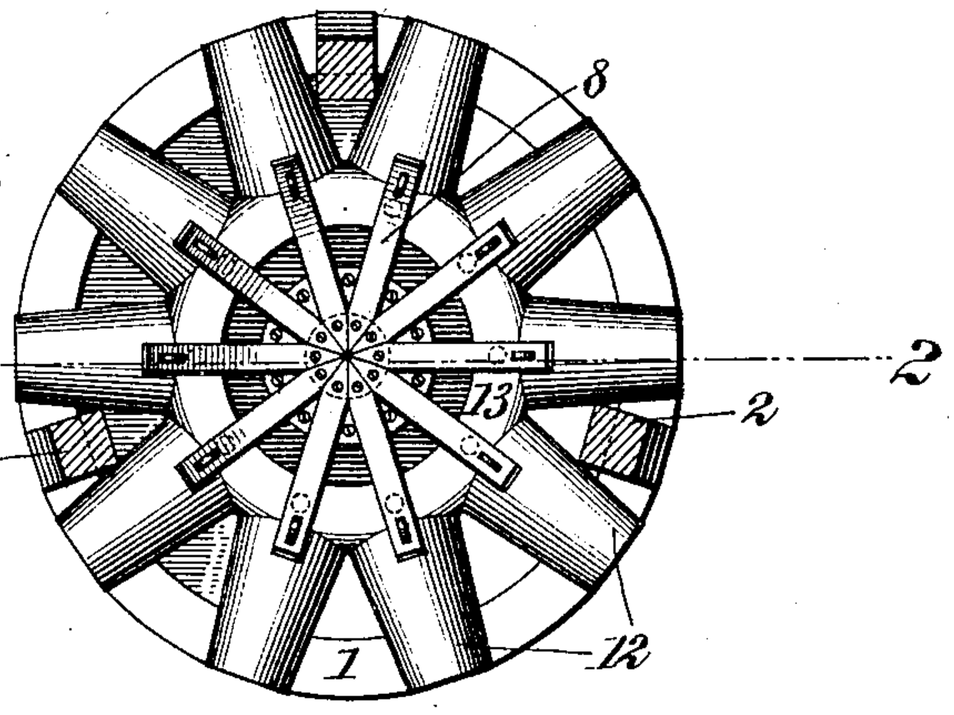


FIG. 2.

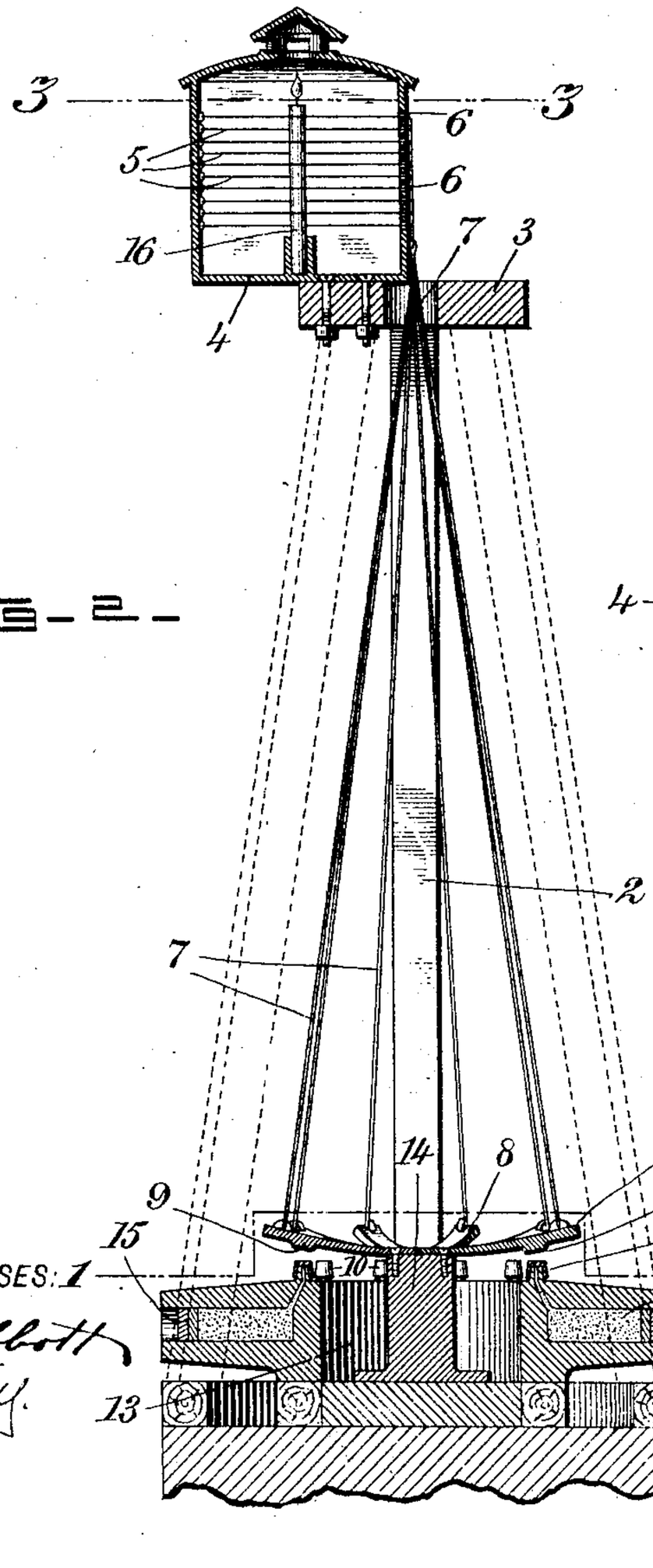
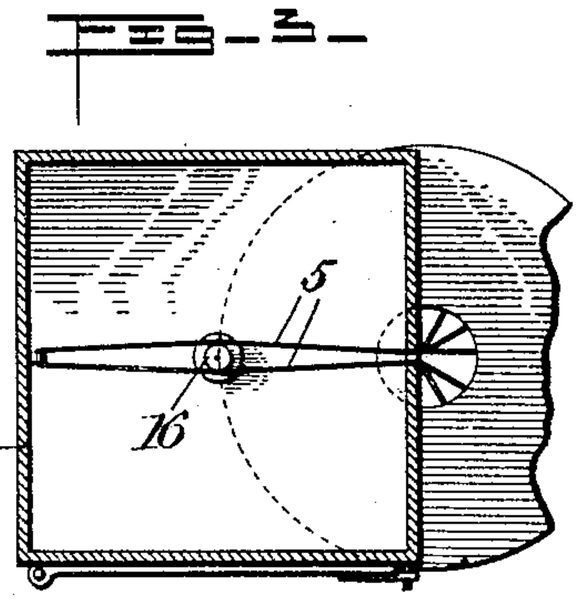


FIG. 3.



WITNESSES:
1
P. C. Abbott
A. E. Fay.

INVENTOR
Daniel B. Coates
BY
ATTORNEYS

No. 778,010. Patented December 20, 1904.

UNITED STATES PATENT OFFICE.

DANIEL B. COATES, OF PAYETTE, IDAHO.

ALARM.

SPECIFICATION forming part of Letters Patent No. 778,010, dated December 20, 1904.

Application filed February 17, 1904. Serial No. 193,939.

To all whom it may concern:

Be it known that I, DANIEL B. COATES, a citizen of the United States, and a resident of Payette, in the county of Canyon and State of Idaho, have invented a new and Improved Alarm, of which the following is a full, clear, and exact description.

My invention relates to alarms, and is especially applicable to that class known as "shepherds'" alarms.

The object of my invention is to provide an alarm for the use of shepherds which shall periodically detonate a charge of powder for the purpose of scaring away coyotes and other predatory animals and for keeping them at a distance for a time after the explosion.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a horizontal sectional view on the line 1 1 of Fig. 2. Fig. 2 is a vertical sectional view on the line 2 2 of Fig. 1, and Fig. 3 is a horizontal sectional view on the line 3 3 of Fig. 2.

In the drawings, 1 represents the ground or a base of any desired character, and 2 a plurality of supports which carry a platform 3 at their upper ends. Upon the platform is placed a casing 4, provided with means for attaching a series of strings 5, which extend horizontally or otherwise across the same. These strings pass freely through holes 6 in one wall of the casing and are secured to wires, (shown at 7,) to hold in an elevated position spring-levers 8, provided with hammers 9 on their under surfaces. These hammers are adapted to strike caps 10, placed upon the base and communicating with a charge of powder 11 in guns 12. These guns are supported by a casing 13, extending from or resting upon the base or ground 1. The hammers are supported from a standard 14, also resting upon the base or ground 1. The usual wads 15 for the gun are provided.

16 is a candle placed in the casing 4, as shown.

In operation the candle is placed in position and lighted, and upon burning down it will set fire to one string 5 after another as it shortens by burning. When a string is burned off, it will permit a spring-lever 8 and hammer 9 to descend on a cap 10 and discharge one of the guns. The noise of the discharge is intended to frighten away coyotes or other animals, and the odor of the powder will tend to keep them at a distance for some time. It will be obvious that one after another of the guns will be discharged by the burning away of the several strings in succession, and it will be sufficient to so place the strings as to be burned off one about every hour.

I do not wish to be limited to the exact construction shown in the drawings, as many modifications could be made without departing from the spirit of my invention as set forth in the claims. The candle is a convenient means of operating the device; but any equivalent could be substituted for it. The firing arrangement may be constructed in other ways, so long as the principle of my invention is preserved.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In an alarm device, a series of stationary devices for holding explosive charges, a series of hammers for discharging the same, resilient means for positively operating the hammers, means for normally holding said hammers in inoperative position, and means for releasing said hammers in succession to permit said resilient means to act and discharge the explosive charges in different directions.

2. In an alarm device, a plurality of devices for holding explosive charges, a plurality of hammers for discharging the same, a holding means for causing the hammers to strike, a flexible holding means attached to each hammer for raising it out of operative position, and means for releasing each of said flexible holding devices in succession for discharging the explosive charges.

3. In an alarm device, a plurality of guns, a spring-lever for each of said guns, said spring-levers each carrying a hammer adapted to discharge the guns, a wire attached to each of said hammers and adapted to be pulled into such position as to hold the spring-levers under tension and out of operative po-

sition, and means for disconnecting said wires to permit said spring-levers to retract the hammers and discharge the guns.

4. In an alarm device, a means for discharging an explosive charge, a combustible device for holding said means out of operative position, and a candle for burning off said combustible device to permit said means to act.

5. The combination of a gun, a spring-lever, a hammer on said spring-lever, a combustible flexible holding device connected to said lever, means for holding said holding device in taut position, and means for burning off said device.

6. The combination of a plurality of means for discharging an explosive charge, a plurality of combustible strings for holding said means out of operative position, means for holding each of said combustible strings taut, and means for burning each of said strings in succession to release said means for discharging the explosive charge.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL B. COATES.

Witnesses:
J. S. THURSTON,
C. W. THURSTON.