

(Model.)

R. M. PATCHIN.
Combined Burglar Alarm and Door Bolt.
No. 238,805. Patented March 15, 1881.

Fig. 1

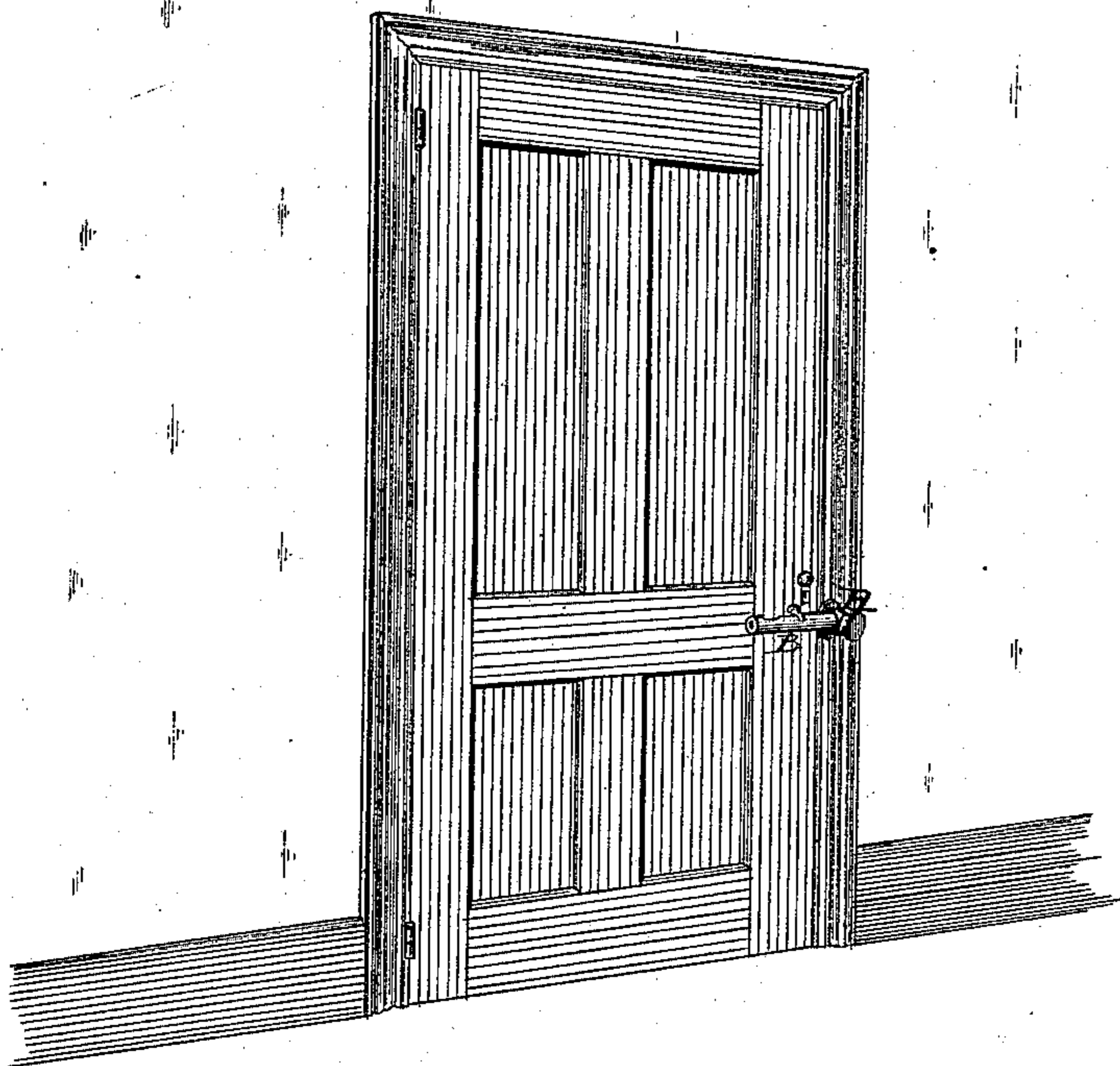


Fig. 2.

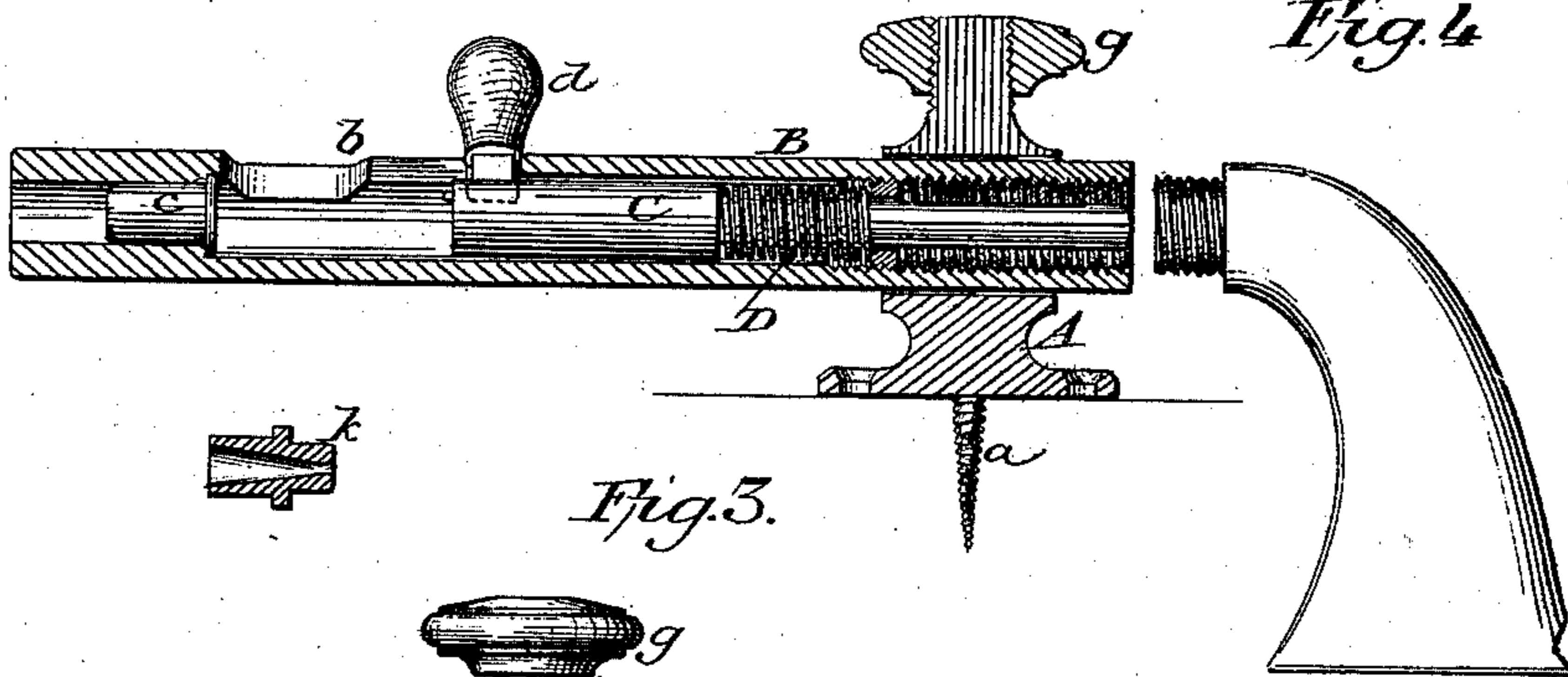
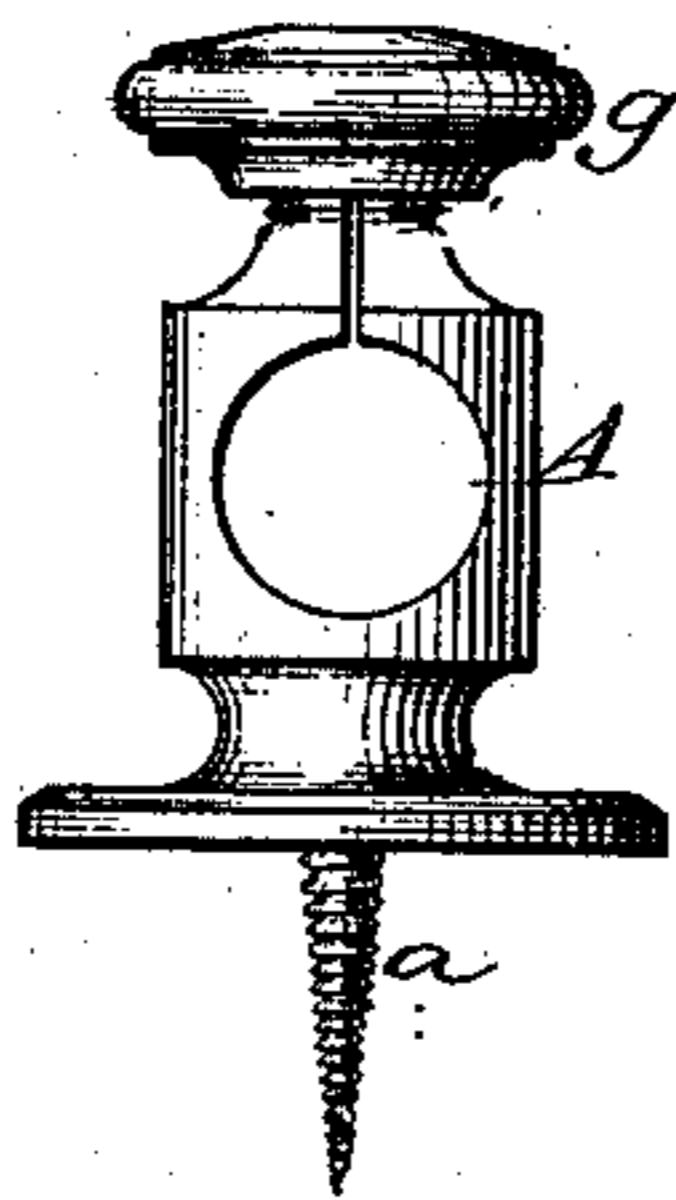


Fig. 3.



Attest.

Sidney P. Hellingworth
William W. Dodge.

Inventor.

R. M. Patchin
By Dodge & Son
Atty's.

UNITED STATES PATENT OFFICE.

REUBEN M. PATCHIN, OF WAYLAND, NEW YORK.

COMBINED BURGLAR-ALARM AND DOOR-BOLT.

SPECIFICATION forming part of Letters Patent No. 238,805, dated March 15, 1881.

Application filed December 2, 1880. (Model.)

To all whom it may concern:

Be it known that I, REUBEN MURRAY PATCHIN, of Wayland, in the county of Steuben and State of New York, have invented certain Improvements in Combined Burglar-Alarm and Door-Bolt, of which the following is a specification.

My invention relates to a device intended to serve the double purpose of a burglar-alarm and a door or window fastening; and it consists in a clamp or holding device provided with a bolt which is bored out to receive a cartridge or powder charge, and provided with a firing mechanism adapted to be acted upon by the door or window.

My device may be modified in form and detail to a limited extent; but the drawings illustrate the same in its most approved form.

Figure 1 is a perspective view, showing the device in position to guard a doorway. Fig. 2 is a longitudinal central section of the device; Fig. 3, an end view of the same; Fig. 4, a view of an attachable handle.

The device consists of two principal parts—a socket or clamp, A, and a barrel or bolt, B, held thereby. The socket is provided with a broad base and a central pointed screw, *a*, by which it may be readily and securely fastened to the wall, casing, or floor, and in order that it may be secured permanently in place the base is provided with holes to receive additional screws. The bolt is made of cylindrical or angular form in cross-section, as preferred, and is inserted through a transverse hole or opening in the socket. The bolt is made tubular, and provided at one end with a side opening, *b*, and adapted to receive a primed cartridge, *c*, introduced through the opening.

In order to explode the cartridge, a sliding plunger or spindle, C, is mounted in the bolt and urged forward by means of a spiral spring, D, one end of which bears against an enlarged head on the plunger, while the other bears against a ring or collar screwed into the rear end of the bolt. At its forward end the plunger is provided with a side arm or handle, *d*, which projects outward through the side opening, as shown, and which serves as a means of retracting and holding back the plunger. The opening in the side of the bolt is extended backward in the form of a slot, and provided at the rear end with notches or shoulders in

both sides, so that by turning the arm or handle into either notch the plunger or striker will be held back against the pressure of the spring. The clamp or socket A is divided or split in one side through a screw-neck thereon, and is contracted upon the bolt by means of a thumb-nut, *g*, mounted upon the neck. As a substitute for this construction, the socket may be made solid and a thumb-screw inserted through its side to bear against the bolt.

In making use of my device the clamp or socket is screwed fast to the wall or casing at the side of the door or window, and the bolt securely fastened in the clamp in such position as to extend over or across the door or sash and prevent the same from being opened. The arm or handle *d* is moved back and engaged in one of the notches, and a cartridge inserted into the seat in the bolt, care being taken to adjust the parts in such manner that the arm will be acted upon and released by the door or window in case the latter is moved, and the plunger thereby caused to ignite the cartridge and sound an alarm. It will, of course, be understood that a blank cartridge is to be used.

In order to adapt the alarm for use at times and places where fixed cartridges cannot be procured, I provide a breech-plug, *k*, adapted to fit the cartridge-seat, and having at the rear end a nipple adapted to receive an ordinary percussion-cap. The breech-plug being introduced and capped, the alarm may be used with loose powder. The plunger is provided, as shown, with a smooth central face to strike the cap, and with a side lip or teat to strike the cartridge, the lip passing outside of the nipple when the latter is used.

The device may be used as a pistol, if desired, by grasping it in the hand and releasing the arm or handle *d* with the forefinger. When thus used it is found desirable to screw a cork upon the screw *a*, or attach a handle to the rear end of the bolt in any suitable manner.

The drawings represent a handle or stock having a screw-neck designed to enter the end of the bolt; but any other means of attachment may be employed.

The barrel may be modified in form, the clamp or holding device changed in form and construction, and any catch or detent substituted for that shown.

I am aware that it is old in fire-arms to provide a plunger or striker with a central needle to ignite central-fire cartridges, and to combine therewith an independent sliding pin to receive the blow of the plunger to ignite rim-fire cartridges, and therefore I do not claim, broadly, a single mechanism arranged to fire rim-fire and center-fire charges.

What I claim as my invention is—

10 1. In a combined door-bolt and alarm, a bolt having its body made of tubular form to receive a cartridge or powder charge, substantially as described and shown.

15 2. The combination of a socket or clamp adapted for application to a wall or casing, a tubular fastening-bolt held thereby, and a fir-

ing mechanism mounted on the bolt and arranged to be actuated by a door or window.

3. The combination of the clamp or socket provided with the screw, the tubular bolt provided with the side opening and the notch or shoulder therein, the spring, and the sliding plunger provided with the side arm.

4. The bolt provided with the cartridge-receiving chamber in combination with the breech-plug having the nipple, and the plunger having the plain center and side lip, as shown and described.

REUBEN M. PATCHIN.

Witnesses:

P. T. DODGE,

SIDNEY P. HOLLINGSWORTH.