

S. D. HOUPPT.
Burglar-Alarm.

No. 225,606.

Patented Mar. 16, 1880.

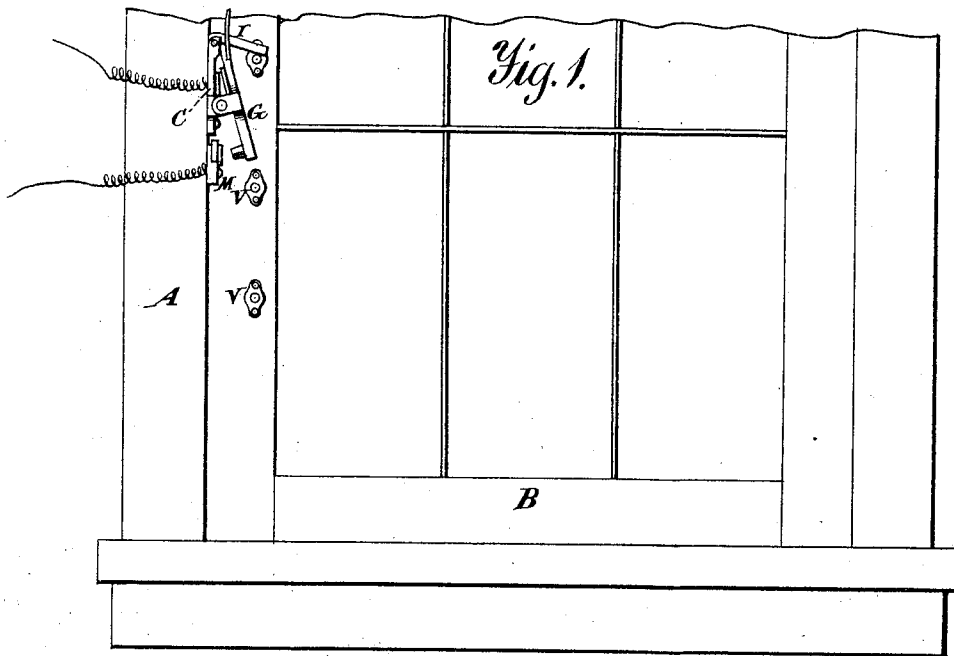


Fig. 2.

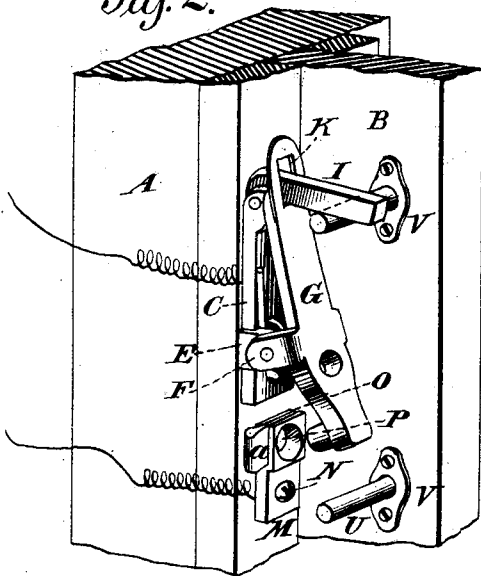


Fig. 3.

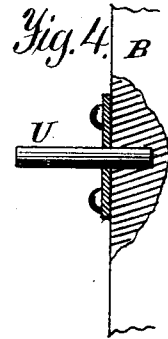
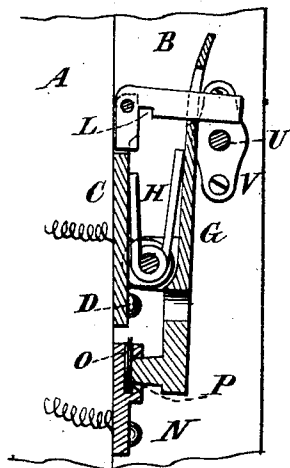
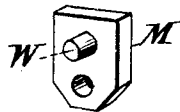


Fig. 5.



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Atty.

UNITED STATES PATENT OFFICE.

SAMUEL D. HOUP, OF FINDLAY, OHIO.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 225,606, dated March 16, 1880.

Application filed January 23, 1880.

To all whom it may concern:

Be it known that I, SAMUEL D. HOUP, of Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Burglar-Alarms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention has for its object to produce a combined mechanical and electric alarm which will be simple in construction and operation and can be readily attached to a window of ordinary construction in such manner that any attempt to raise the sash will explode a detonating pellet or cap, and at the same time establish an electric circuit to sound an electric alarm, as more fully hereinafter specified.

In the drawings, Figure 1 represents a front view of a window, showing my improved alarm attached thereto. Fig. 2 is a perspective view of a portion of a window, showing my improvement in detail. Fig. 3 represents a sectional view of my device; Fig. 4, a detached view of the device to be attached to the sash of a window to operate the device, and Fig. 5 a detached view of a modified form of the device for carrying the detonating-cap.

My invention consists, essentially, of a hammer pivoted to a plate attached to the sash-frame of the window, to which plate is also secured a trigger adapted to engage and hold said hammer in a cocked position, in combination with a cap-carrying device and a detachable pin, the latter being secured to the sash in such position as to trip the trigger when the sash is elevated, and permit a spring to operate the hammer to strike the cap and explode it and establish a metallic connection with the poles of an electric circuit and alarm, so as to sound such alarm, as more fully hereinafter specified.

The letter A indicates the sash-frame of an ordinary window, and B the movable sash.

C indicates a metallic plate, adapted to be secured to the sash-frame in any convenient manner, preferably by means of a screw, D,

as shown in the drawings. Said plate is provided with short standards E, to which are pivoted the short arms F of the lever or hammer G, which is held in and returned to a normal position by means of a spring, H.

The letter I indicates a trigger pivoted to the plate C, and extending through a slot, K, in the lever or hammer G, near its upper end. Said trigger is provided with a recess, L, on its under side, which is adapted to engage the lower edge of the slot K and hold the lever or hammer in a cocked position.

The letter M indicates a metallic plate, adapted to be secured to the sash-frame below the plate C in any convenient manner, in the present instance being secured by means of a screw, N. The said plate is preferably constructed, as shown in Figs. 1, 2, and 3, with a vertical slot, O, and a transverse aperture, P, the vertical slot being intended to hold the device carrying the fulminate, the said device consisting of a folded strip of metal, a, between the sides of which one of the pellets ordinarily used for toy fire-arms may be inserted. The aperture P is to permit the hammer to strike through upon the fulminate-carrier.

The letter U indicates a pin, which is detachably secured in a socket-plate, V, attached to the movable sash. A series of said plates may be employed, as shown in Fig. 1, in order that the sash may be set at different heights and held in position by placing the pin U above the trigger I.

The plates O and M are disconnected and insulated from each other, and to one may be connected the positive pole of a wire connected with an electric battery and alarm, and to the other the negative pole. When the hammer falls upon the cap or pellet carrier it makes a metallic connection between the two plates, thereby sounding the electric alarm as well as exploding the pellet.

Instead of the pellet above described, an ordinary percussion-cap may be employed, in which case the plate M is provided with a nipple, W, as shown in Fig. 5 of the drawings.

When the pin V has tripped the trigger I the lever G flies outwardly, and these two parts, together with the pin U, form a lock, which prevents the window from being farther raised.

The electric alarm, in connection with the

mechanical device, is principally intended to be used in cities where it is desired to sound an alarm at a distance from the place of operation of the burglars; but it is evident that the mechanical alarm may be employed as well without the electrical connection as with it, and will thus answer as an alarm in isolated places, where it would not be necessary or desirable to employ the electric alarm.

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

1. The combination, in a burglar-alarm, of a plate carrying a hammer and suitable operating mechanism and a plate carrying a fulminate, the two plates being insulated and connected with the wires of an electric alarm, whereby, when the hammer explodes the fulminate, it will establish an electric circuit, and at the same time sound an electric alarm, substantially as specified.

2. In combination with the plate C, carrying

the hammer, and the mechanism for operating said hammer, the plate M, slotted as described, and the detachable fulminate-carrier *a*, substantially as specified.

3. In combination with the plate C, the hammer G and its spring, the hammer being provided at its upper end with a slot, K, through which projects a trigger, I, having a recess, L, adapted to engage one edge of said slot, and the adjustable pins U, adapted to trip said trigger and throw the same against the upper edge of the slot when the sash is raised, whereby the hammer is released and the pin is held permanently by the trigger, so as to lock the sash, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of January, 1880.

S. D. HOUP.

Witnesses:

H. J. ENNIS,
THEO. MUNGEN.