

J. W. & W. W. WHARF.  
Burglar-Alarm.

No. 205,454.

Patented June 25, 1878.

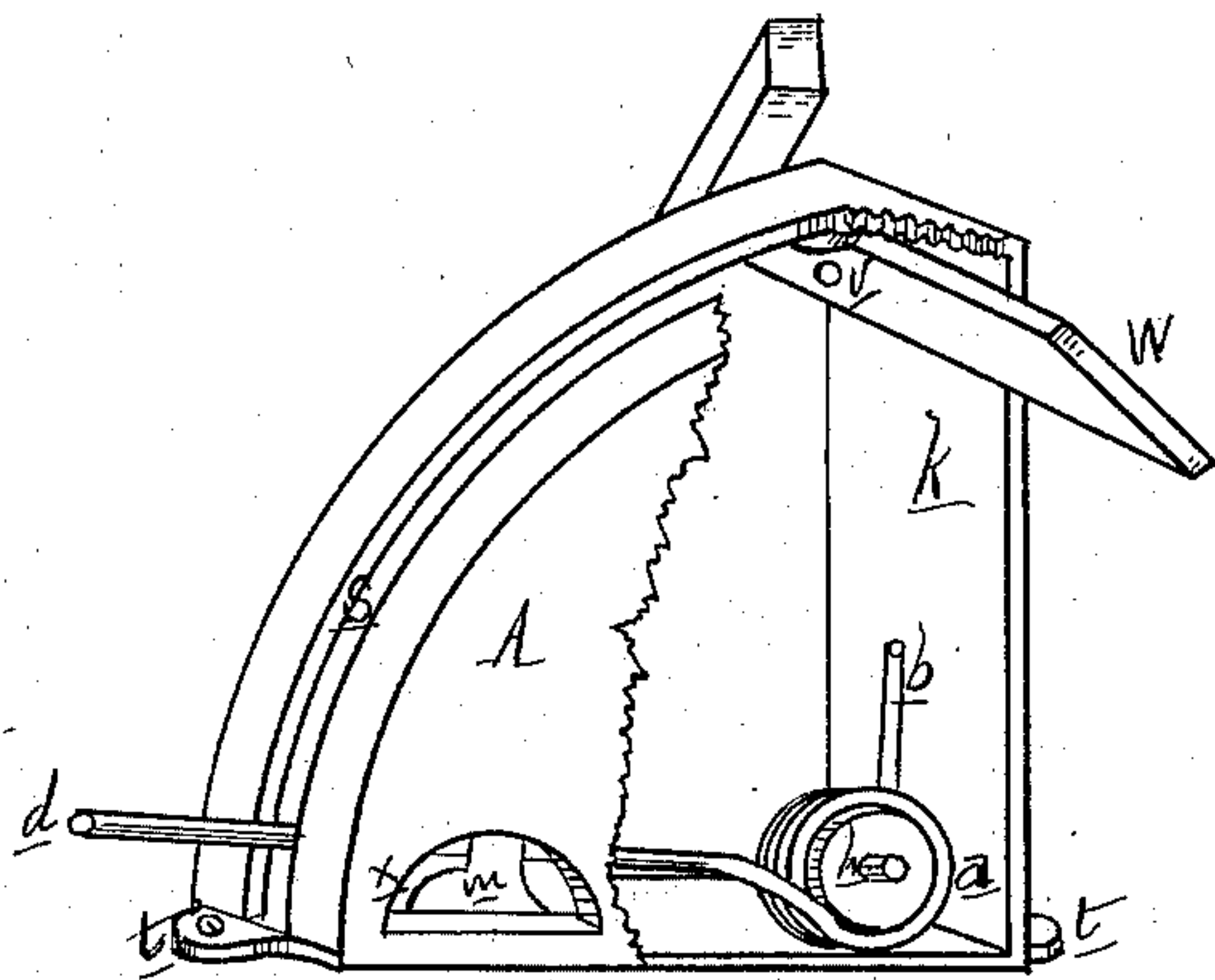
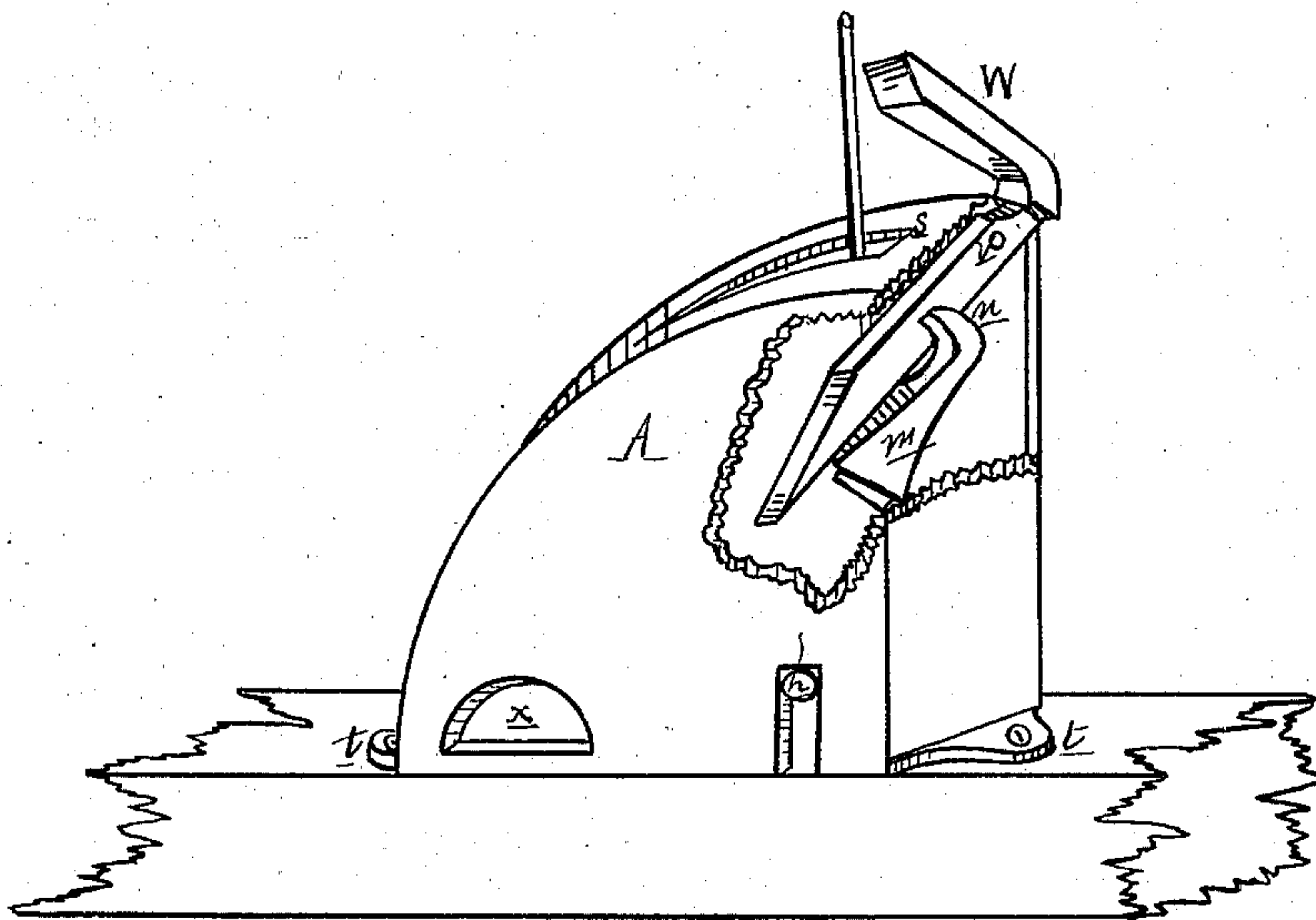


Fig. 2.



ATTEST  
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# UNITED STATES PATENT OFFICE.

JAMES W. WHARF AND WILLIAM W. WHARF, OF DETROIT, MICHIGAN.

## IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. **205,454**, dated June 25, 1878; application filed October 26, 1877.

*To all whom it may concern:*

Be it known that we, JAMES W. WHARF and WILLIAM W. WHARF, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Sash-Fasteners and Burglar-Alarms Combined, of which the following is a specification:

The nature of this invention relates to certain new and useful improvements in that class of devices designed to prevent windows of the ordinary construction from being opened from the outside, and combined with devices for exploding a detonating-powder cap whenever an illegal attempt is made to enter the house by opening or attempting to open the window.

The invention consists in the peculiar construction and arrangement of the various parts, as more fully hereinafter described.

Figure 1 is a perspective view of our improvement with the front of the case removed to show the interior arrangement of parts. Fig. 2 is a perspective view from the opposite end of the device, showing the same attached to the lower bar of the upper sash, and the manner of locking the two sashes of a window, also with the front of the case broken out.

Like letters indicate like parts in each figure.

In the drawings, A represents a quadrant-shaped case, preferably cast in one piece and hollow, to receive and hold in place the operating parts, which are as follows: *a* is a wire coil-spring, with two free ends, *b* and *d*, and the spring is sleeved on the pin *h* to hold it in place. The free end *b* rests against the inner vertical wall *k* of the case A. Upon the other free end, *d*, and between the extreme end and the coil-spring, is secured the hammer *m*, the upper end of which terminates in the hook *n*. The outer end *d* projects through the slot *s* in the case, and the latter is provided with two ears, *t*, by means of which and suitable screws the case is secured to the sash. The locking-lever *w* is made nearly

L-shaped, as shown, and is pivoted at *v*, so that when not in use it is in the position shown in Fig. 1, and when in use its position is shown in Fig. 2.

The locking-lever being in the position shown in Fig. 1, the sashes of the window may be raised or lowered at will. Reversing its position, as shown in Fig. 2, the upper sash may be lowered a little, as shown, and any attempt to raise the lower sash would only result in raising it as much as would be necessary to close the upper sash, the distance to which either sash may be vertically moved being governed by the distance between the bottom of the case and the underside of the locking-lever. This allows the sashes to be moved only sufficient for ventilating purposes, while at the same time they are secured against attempts to open them farther.

To put the device into operation as an alarm, the locking-lever should be in the position shown in Fig. 2, and the projecting end *d* of the hammer-spring forced upward in the slot until the hook *n* engages with the lower edge of the locking-lever, and a detonating cap or pad inserted through the opening *x* in front of the case, when an attempt to raise the lower or to drop the upper sash will cause a slight movement of the locking-lever by its projecting end coming in contact with the upper bar of the lower sash sufficient to release the detent-hook *n*, when the force of the spring will cause the hammer to descend upon the detonating-cap and explode it.

What we claim as our invention, and desire to secure by Letters Patent, is—

In a burglar-alarm, the combination of the case A, wire coil-spring *a*, with two free ends, *b* *d*, pin *h*, and hammer *m*, all constructed and arranged to operate substantially as and for the purposes set forth.

JAMES W. WHARF.  
WILLIAM W. WHARF.

Witnesses:

H. S. SPRAGUE,  
CHAS. J. HUNT.