

No. 794,360.

PATENTED JULY 11, 1905.

F. C. & V. H. KLINE.
BURGLAR ALARM.

APPLICATION FILED JULY 14, 1904.

Fig. 1.

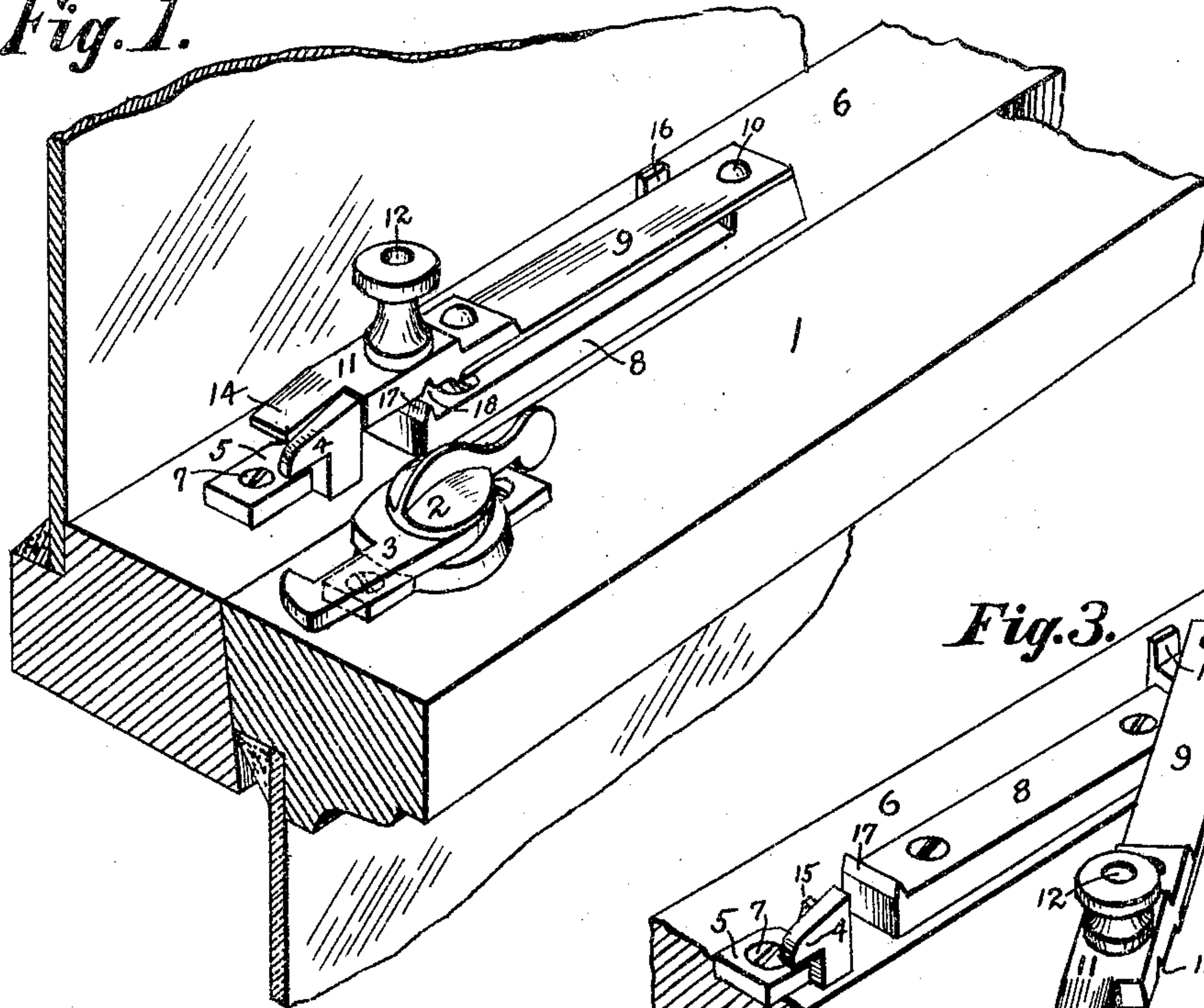


Fig. 3.

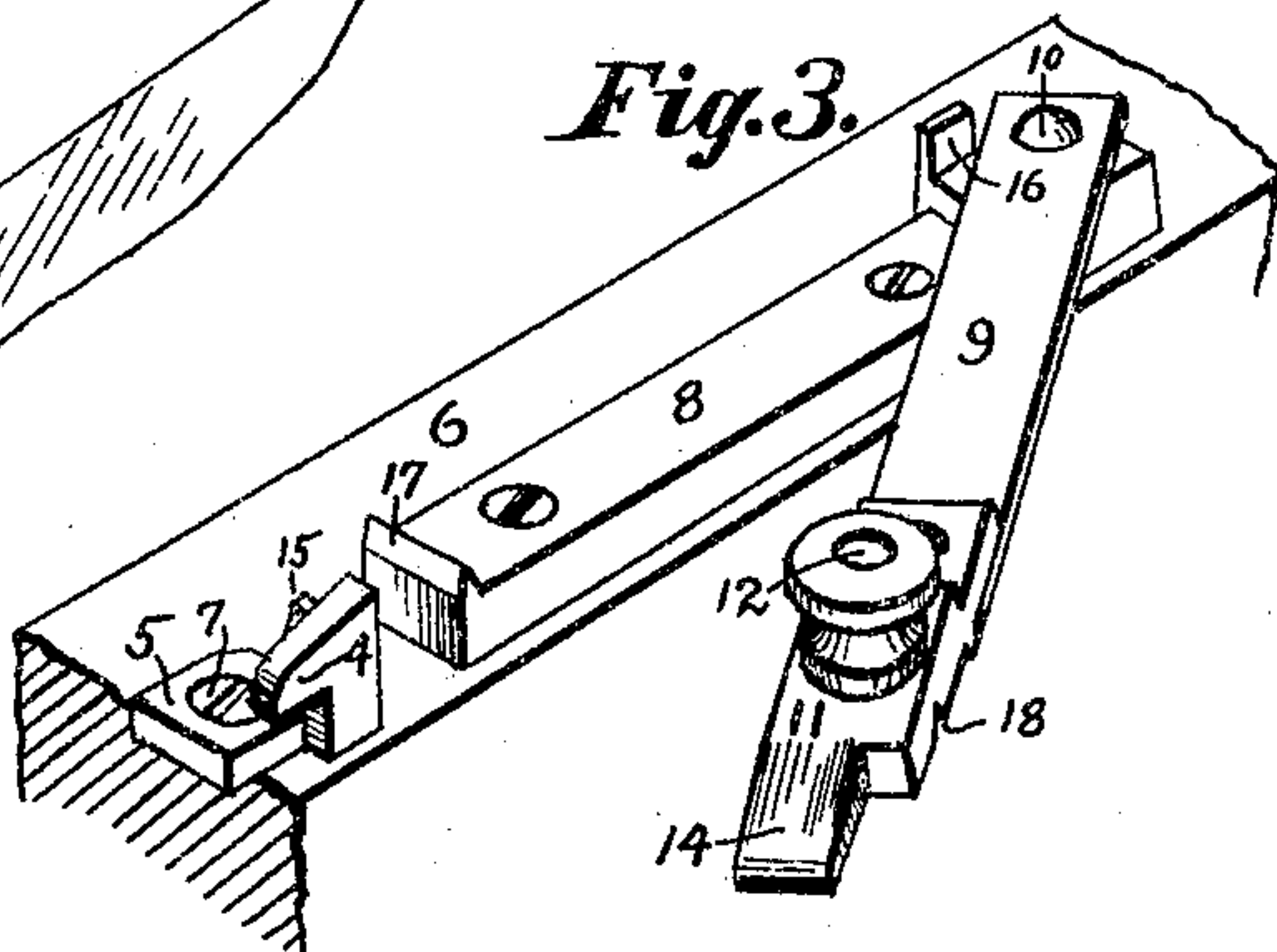


Fig. 2.

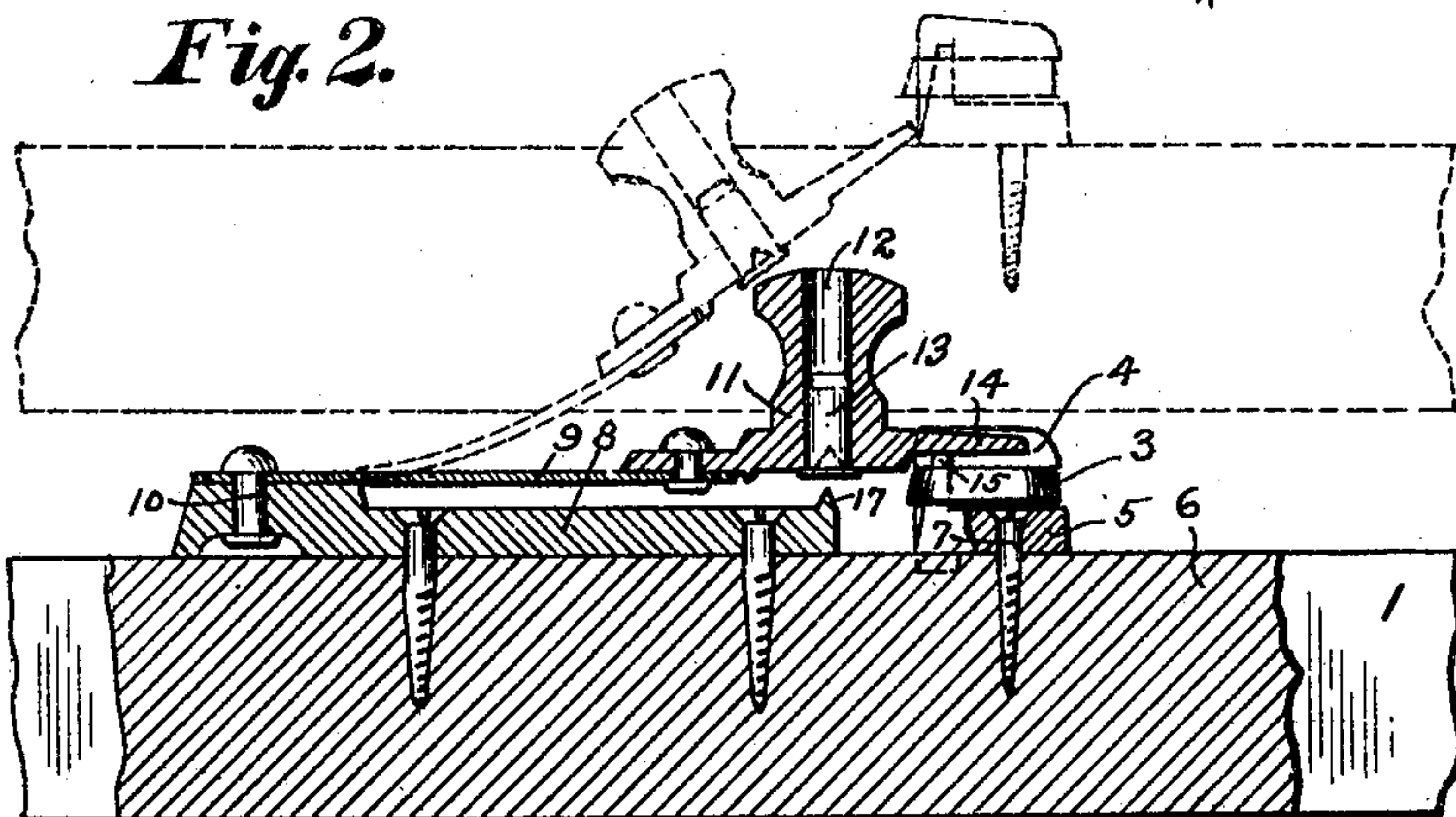
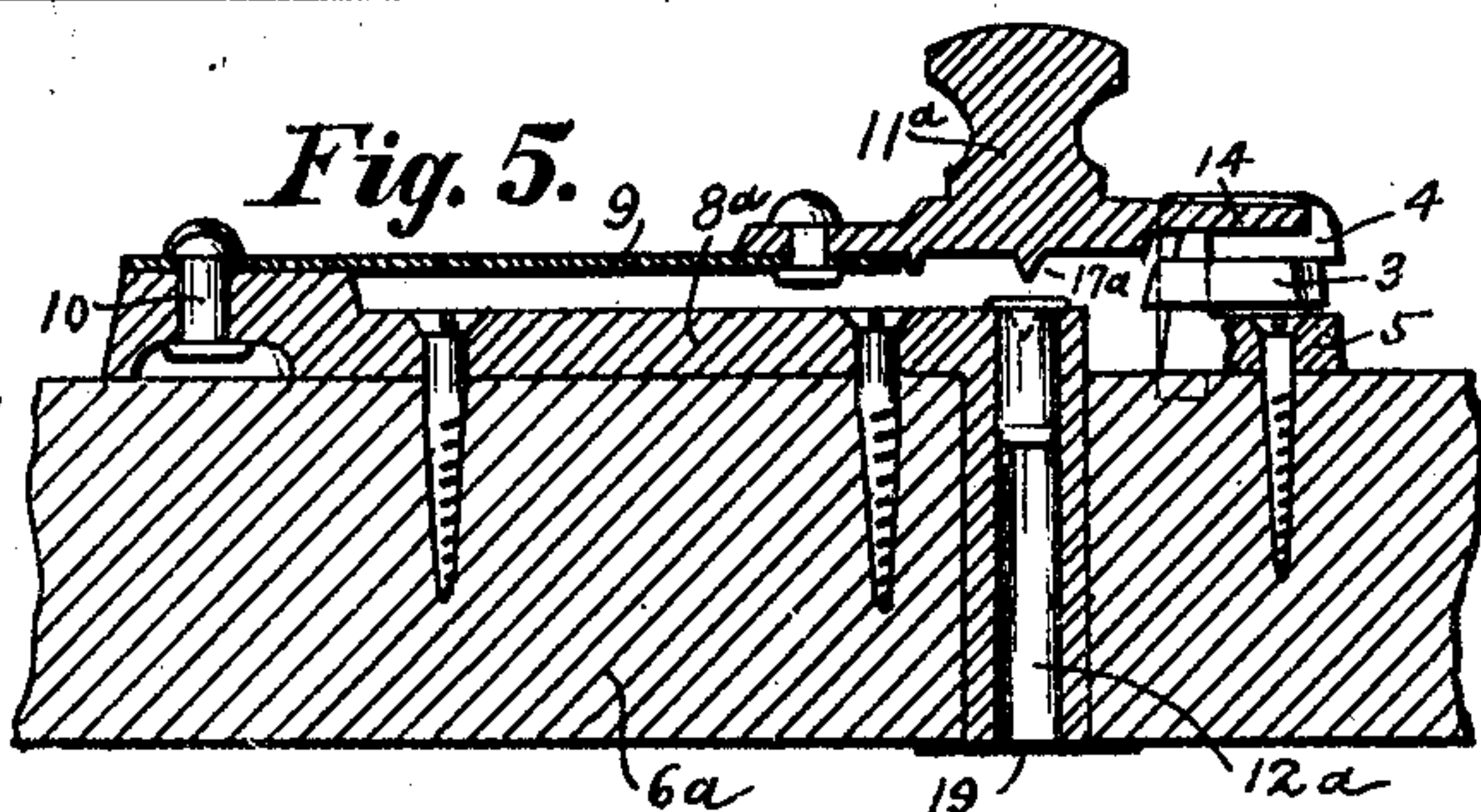


Fig. 4.



Fig. 5.



WITNESSES

Jos. J. Hosler.
M. F. Anthony

INVENTORS

Frederick C. Kline,
Victor H. Kline
BY
Harry Freese
ATTORNEY

UNITED STATES PATENT OFFICE.

FREDRICK C. KLINE AND VICTOR H. KLINE, OF CANTON, OHIO.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 794,360, dated July 11, 1905.

Application filed July 14, 1904. Serial No. 216,500.

To all whom it may concern:

Be it known that we, FREDRICK C. KLINE and VICTOR H. KLINE, citizens of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Improvement in Burglar-Alarms, of which the following is a specification.

The invention relates to an attachment to be applied to a door or window by the opening of which a percussion cap or cartridge is exploded; and the object of the improvement is to use the alarm in connection with an ordinary lock, so that when the window is unlocked the alarm will not be operative. As adapted to ordinary vertically-sliding window-sashes this object is attained by the construction, mechanism, and arrangement illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of fragments of the adjoining sash-bars, showing the alarm attachment with the lock opened; Fig. 2, a longitudinal section of a sash-bar with the attachment thereon, showing the adjoining sash-bar and the lock closed; Fig. 3, a perspective view of the attachment with its hammer turned aside for loading; Fig. 4, a detached perspective view of the lock-catch; and Fig. 5, a longitudinal section of a sash-bar, showing an alternate form of the device.

Similar numerals refer to similar parts throughout the drawings.

On one of the adjoining sash-bars 1 is securely fastened the ordinary type of sash-lock 2, having the locking-arm 3, adapted to be rotated to and from an engagement under the finger 4 of the catch 5, which catch is releasably attached to the other sash-bar 6, as by the single screw 7. Adjacent to the catch and on the same bar with it is attached the alarm-plate 8, on the further end of which plate is attached the end of the long flat spring 9, preferably by means of the pivot-bolt or rivet 10. On the near free end of the spring is attached the head or hammer 11, which is provided with the aperture 12, adapted to receive the ordinary percussion cap or cartridge 13, and the tongue 14 is also provided

on the hammer which extends over the lock-catch 5, which catch is preferably provided with the lug 15, which makes a seat for the tongue above the locking-arm and at the side of the catch-finger. The shoulder 16 is preferably provided near the pivot end on the side of the plate opposite the catch-finger, so that the spring and its hammer are normally held in proper operative position between this shoulder and the finger, as shown in Fig. 1. On the near end of the plate and directly under the cartridge-aperture is provided the exploding projection 17, which is preferably in the form of a transverse V-shaped rib, and the corresponding transverse groove 18 is provided in the hammer to receive the rib, so that when the alarm is operated the full blow of the exploding projection is received by the head of the cartridge. For loading the alarm the hammer is sprung up above the catch-finger and then rotated out to the position shown in Fig. 3, when the cartridge can be conveniently inserted.

The alarm is operative when the window is closed and the locking-arm rotated to an engagement under the finger of the catch, which also brings it under the tongue of the hammer. The screw 7 is of sufficient size to hold the catch as against any ordinary effort to open the window; but in event the sash is raised by an extraordinary force, as by a burglar's jimmy, the screw is pulled out of the sash-bar, whereupon the locking-arm carries up with it the catch and the hammer-tongue thereabove until the bending of the spring permits the end of the tongue to slip past the bar and catch, as shown by broken lines in Fig. 2, after which the energy of the spring brings the hammer down with great force to the effect that the cartridge-head strikes and is exploded by the transverse rib of the plate.

The parts of the alarm can be reversed by providing the cartridge-aperture 12^a in the plate 8^a and the exploding projection 17^a on the hammer 11^a without affecting the nature of the invention, and in this arrangement it is preferred to close the outer end of the aperture, as by the paper 19, as shown in Fig.

5; but the form of the device first described is preferred because it does not require the sash-bar to be perforated.

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

In a window, a catch having a finger releasably attached on one sash-bar with a lock securely attached on the adjoining sash-bar having an arm adapted to rotate in and out from
10 under the finger, and a burglar-alarm attached on the former bar adjacent to the catch, comprising a plate having a projection on the

near end, a spring attached on the far end, and a hammer on the near end of the spring having a tongue extending over the catch and a
15 cartridge-aperture above the projection.

In testimony whereof we have hereunto signed our names to this specification in the presence of two subscribing witnesses.

FREDRICK C. KLINE.

VICTOR H. KLINE.

Witnesses:

MINNIE F. ANTHONY,

HARRY FREASE.