

No. 666,542.

Patented Jan. 22, 1901.

J. G. MOSER.

COMBINED BURGLAR ALARM AND SASH LOCK.

(Application filed Sept. 12, 1900.)

(No Model.)

Fig. 1.

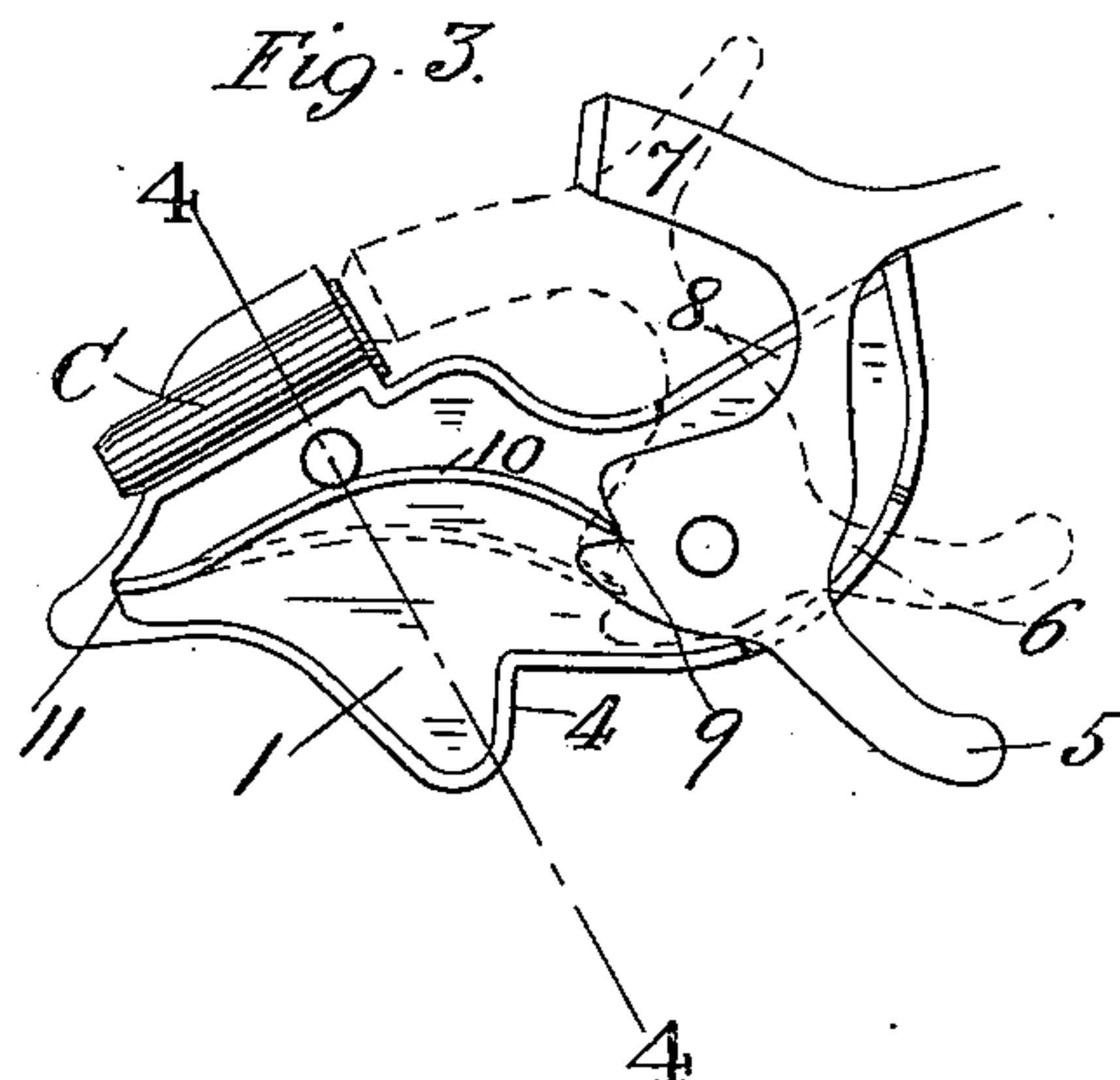
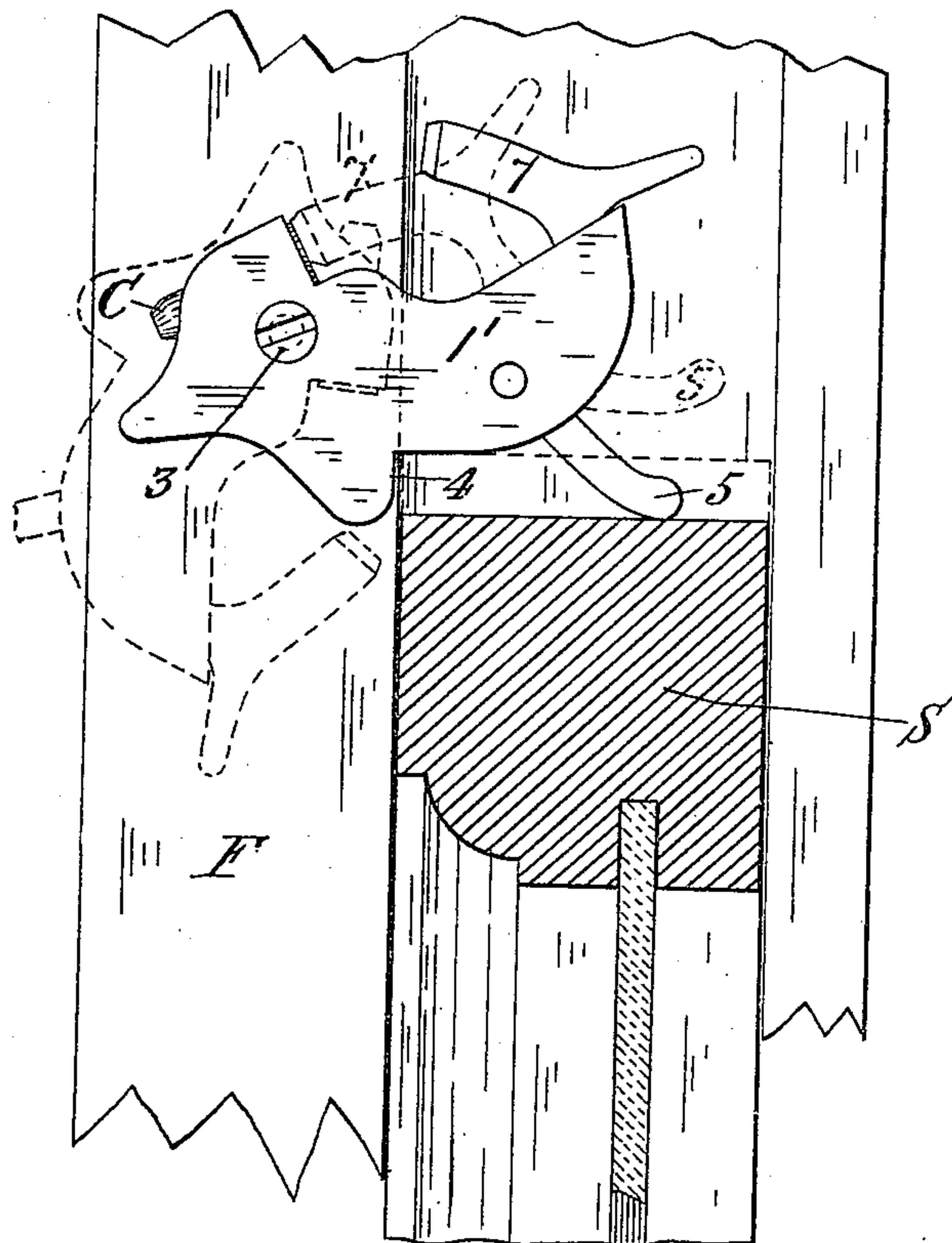


Fig. 4.

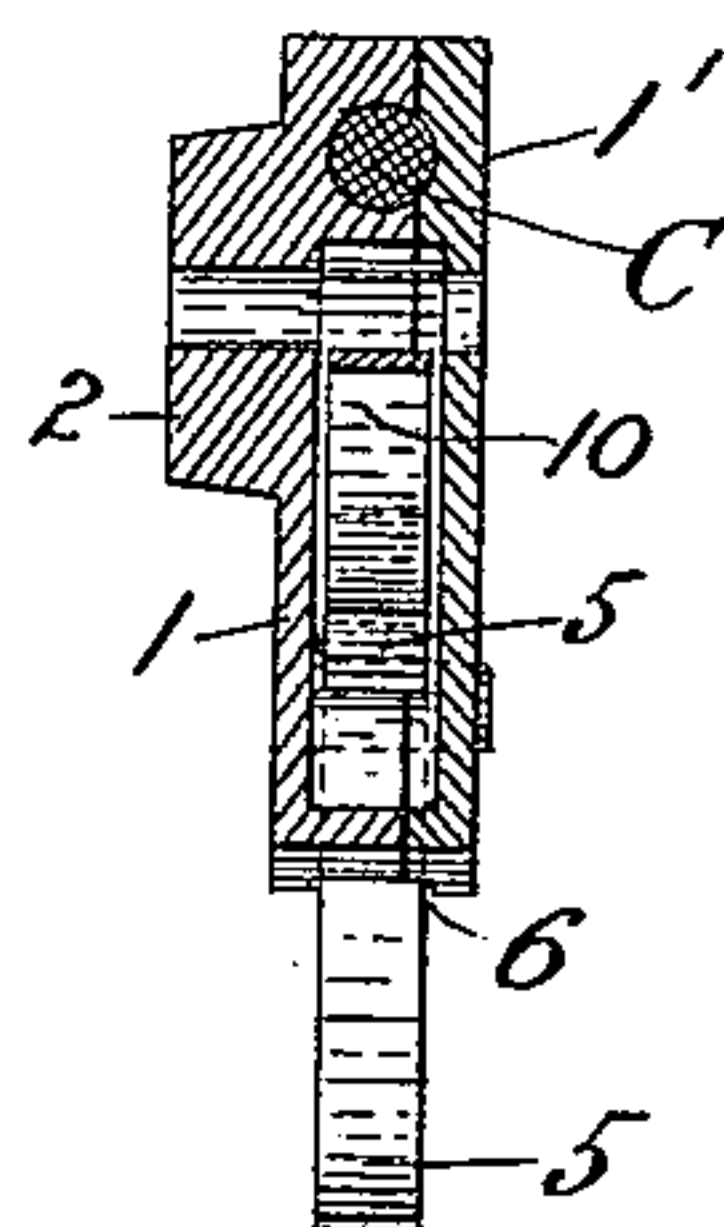
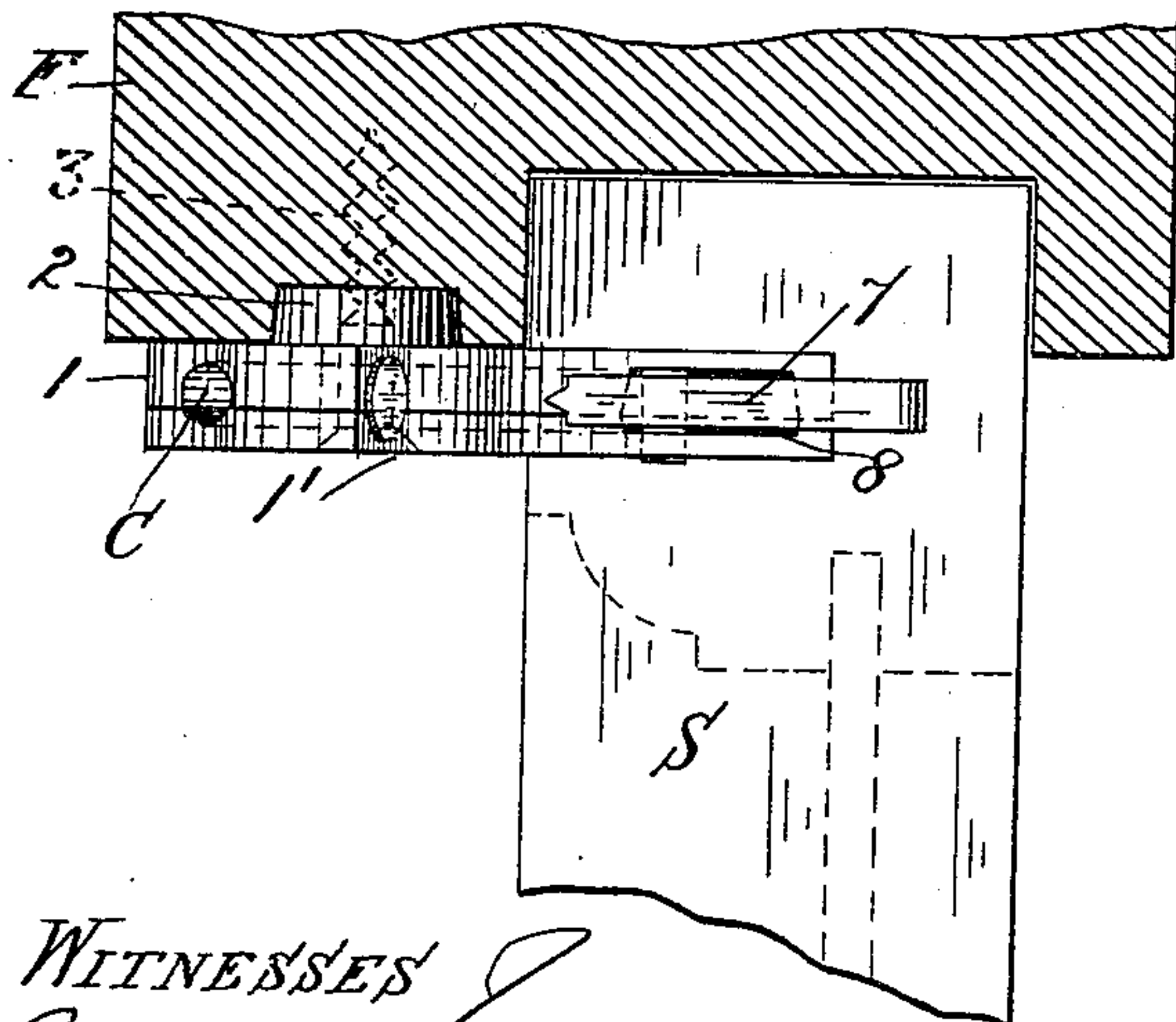


Fig. 2.



WITNESSES
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JOHN G. MOSER, OF ST. LOUIS, MISSOURI.

COMBINED BURGLAR-ALARM AND SASH-LOCK.

SPECIFICATION forming part of Letters Patent No. 666,542, dated January 22, 1901.

Application filed September 12, 1900. Serial No. 29,821. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. MOSER, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in a Combined Burglar-Alarm and Sash-Lock, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in combined sash-locks and burglar-alarms; and it consists in the novel construction and arrangement of parts more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a window-frame, showing my device secured thereto, the sash-rail being shown in cross-section. Fig. 2 is a top edge view of the device, the window-frame being in cross-section and the sash-rail in top plan. Fig. 3 is an inside view of the main section or plate of the casing, showing the cartridge, trigger, and hammer and spring mounted thereon; and Fig. 4 is a section of the assembled casing, the plane of section being on line 4-4 of Fig. 3.

One object of my invention is to construct a device which when secured to the window-frame in proximity to the window-sash will serve not only as a lock for the latter, but will serve to explode a cartridge when an attempt is made to open the window by unauthorized persons, such as burglars, thieves, and the like.

A further object is to construct a device which shall be simple, cheap, and durable, and one which can readily be swung out of engagement with the sash-rail when it is desired to operate the sash in either direction.

In detail the invention may be described as follows:

Referring to the drawings, 1 1' represent the respective sections or flanged plates which when assembled jointly form a casing or housing for the actuating parts, the plate 1 serving as a mounting-plate for the several parts and the plate 1' as a cover-plate. The plate 1 is provided with a hollow boss 2, through which and through the plates passes the screw 3, by which the casing is secured to the window-frame F, the said casing being rotatable about the smooth portion of the securing-

screw, the boss serving as a bearing or hub for the better support of the casing on the screw 3. Disposed along what constitutes the lower edge of the casing when mounted is a shoulder 4, the casing being provided along its upper edge opposite said shoulder with an opening for the reception of a blank-cartridge C. Pivoted at a point interior to the shoulder 4 is a trigger 5, projecting downwardly through an opening 6 of the casing, the trigger having formed integrally therewith the hammer 7, by which the cartridge is exploded, the hammer projecting through a recess 8 out of the casing. The base of the trigger is provided with a recess 9 for the reception of one end of a flexed spring 10, the opposite end of the spring resting at the base of a recess 11, formed at the extreme outer end of the casing. In setting the trigger the latter is tilted to the position indicated by full lines in Figs. 1 and 3, the spring 10 holding it in that position until discharged by an upward movement of the sash S. Normally the casing is so mounted that the shoulder 4 will just clear the adjacent edge of the sash-rail, thus enabling the operator to swing the entire casing around, so as not to interfere with the free movement of the sash when it is desired to operate the latter. (See dotted position of the parts in Fig. 1.) When, however, it is desirable that the device shall perform the function of a sash-lock and a burglar-alarm, the same is swung to the full-line position indicated in Fig. 1, the trigger having been previously set, as already indicated. Now the moment an attempt is made to raise the sash the top rail of the same, being in engagement with the trigger, will tend to turn the casing as a whole about its axis of rotation; but in such rotation the shoulder 4 of the casing will foul the adjacent face of the advancing sash, coming squarely against it, the latter being limited in its upward movement by coming in contact with the lower edge of the casing. (See dotted position of sash-rail in Fig. 1.) Before, however, the upper rail of the sash comes in actual contact with the lower edge of the casing it will have tripped the trigger sufficiently (past the point where the spring 10 retains it in its set position) to cause the spring 10 to automatically force the hammer against the head of the

cartridge, thereby exploding the same, and thus sounding a species of alarm that the occupants of the house would surely take notice of and one which would effectively
5 frighten a burglar or intruder.

In the example of the application of the present device as just described it will be observed that the same is used in connection with a window-sash having a rectilinear sliding movement; but it is obvious that the casing could be so mounted as to be effectively used with transom-windows swinging about an axis or even used in connection with swinging or folding doors, the parts being adjusted
10 in a manner that would naturally suggest itself under the particular circumstances.

I do not of course wish to limit myself to the precise details here shown and described, as the same could be departed from in a measure without affecting the spirit of my invention.
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Having described my invention, what I claim is—

1. A burglar-alarm and sash-lock comprising
25 ing a casing, suitable means for pivotally mounting the same in proximity to the sash-rail, a shoulder forming a part of the casing, means for holding a cartridge in position on the casing, a trigger projecting from the casing at a point adjacent to the shoulder, said
30 trigger being adapted to engage the sash-rail, whereby, upon movement of the latter in one direction the casing is slightly rotated about its axis and the shoulder forced against the face of the rail, and the trigger actuated to fire the cartridge, substantially as set forth.

2. A burglar-alarm and sash-lock comprising

ing a casing, suitable means for pivotally mounting the same in proximity to the sash-rail, a shoulder formed on the casing, means
40 for holding a cartridge in position on the casing, a spring-actuated trigger projecting from the casing at a point adjacent to the shoulder, a hammer connected to the trigger and projecting from the opposite side of the casing,
45 said trigger being adapted to engage the sash-rail, whereby, upon movement of the latter in one direction the casing is slightly tilted about its axis and the shoulder forced against the face of the rail, and the trigger actuated
50 to force the hammer against the cartridge, substantially as set forth.

3. A burglar-alarm and sash-lock comprising a sectional casing having a lower shoulder, the respective sections being adapted to
55 retain between them a cartridge adjacent to the upper edge of the casing, means for pivotally mounting the casing in proximity to the sash-rail, a pivoted trigger projecting from the bottom of the casing, a hammer forming
60 a part of the trigger and projecting from the upper edge of the casing, a recess being formed at the inner end of the hammer, a corresponding recess being formed at one end of the casing, and a flexed spring having its bearings
65 in the respective recesses, the parts operating substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN G. MOSER.

Witnesses:

EMIL STAREK,
G. L. BELFRY.