

(No Model.)

R. T. SMILLIE.

BURGLAR ALARM.

No. 395,519.

Patented Jan. 1, 1889.

Fig. 1.

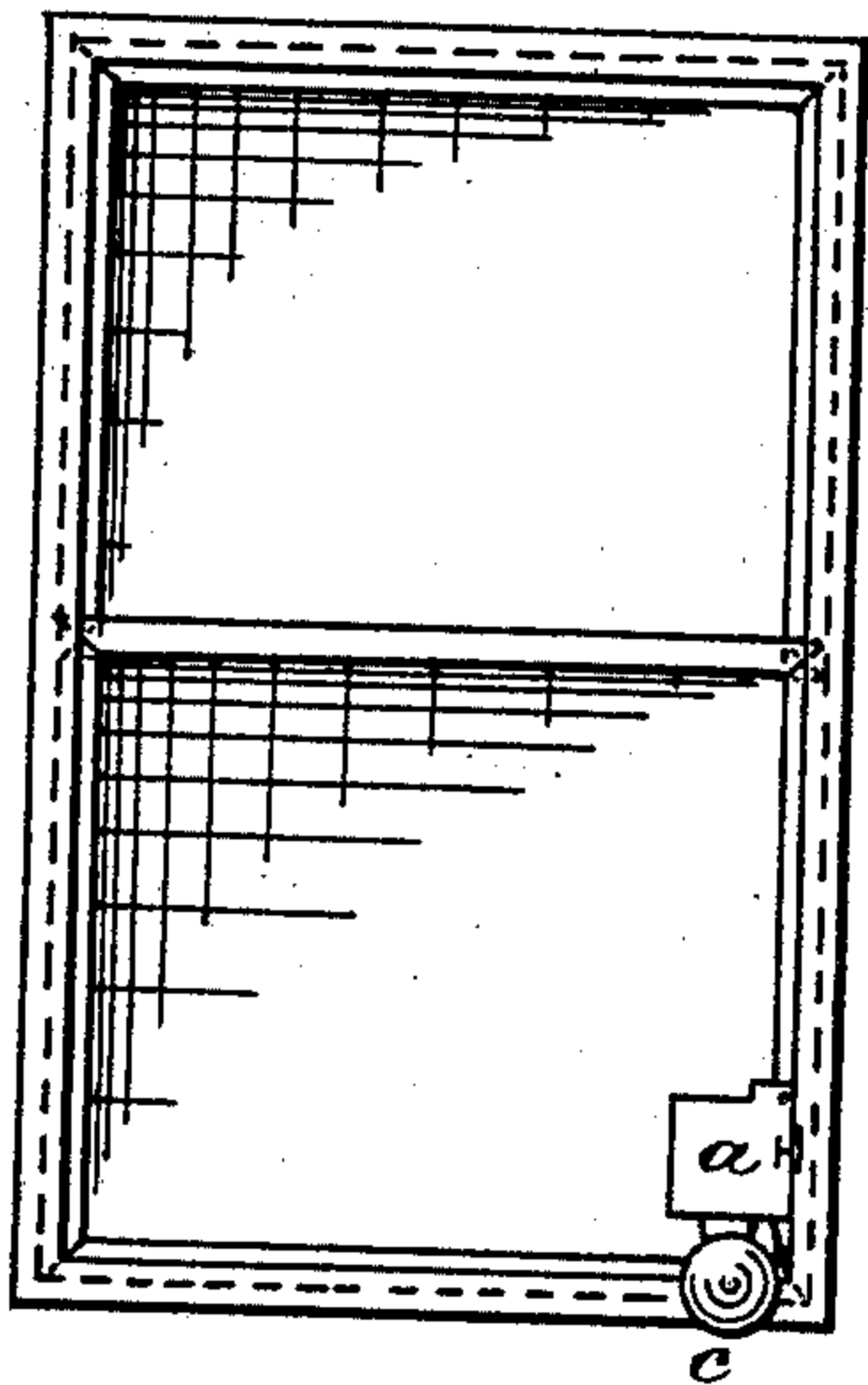


Fig. 2.

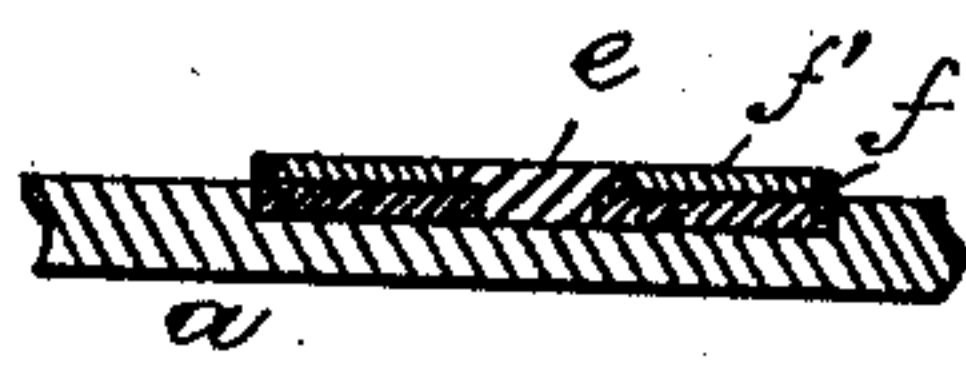
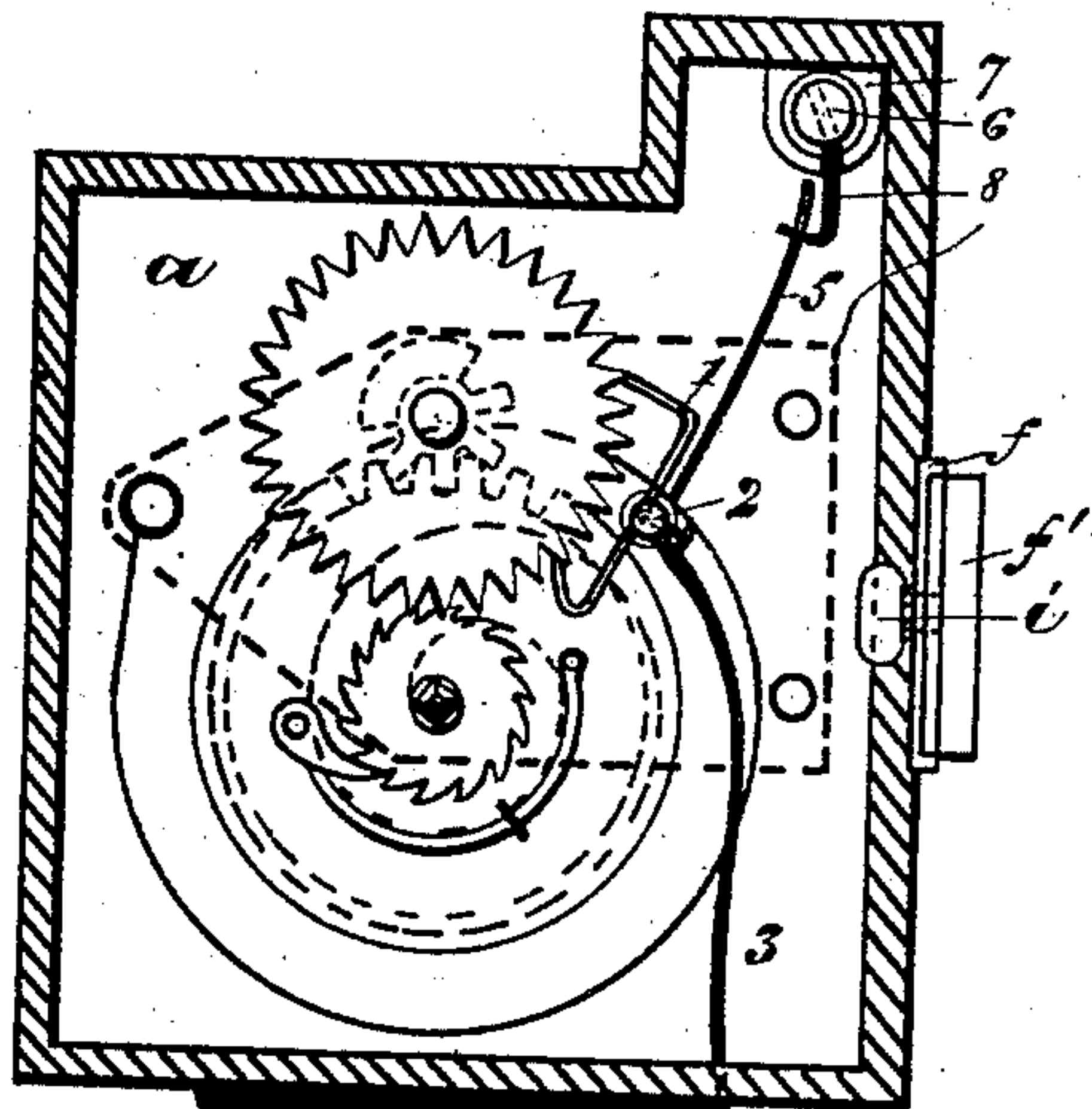


Fig. 5.

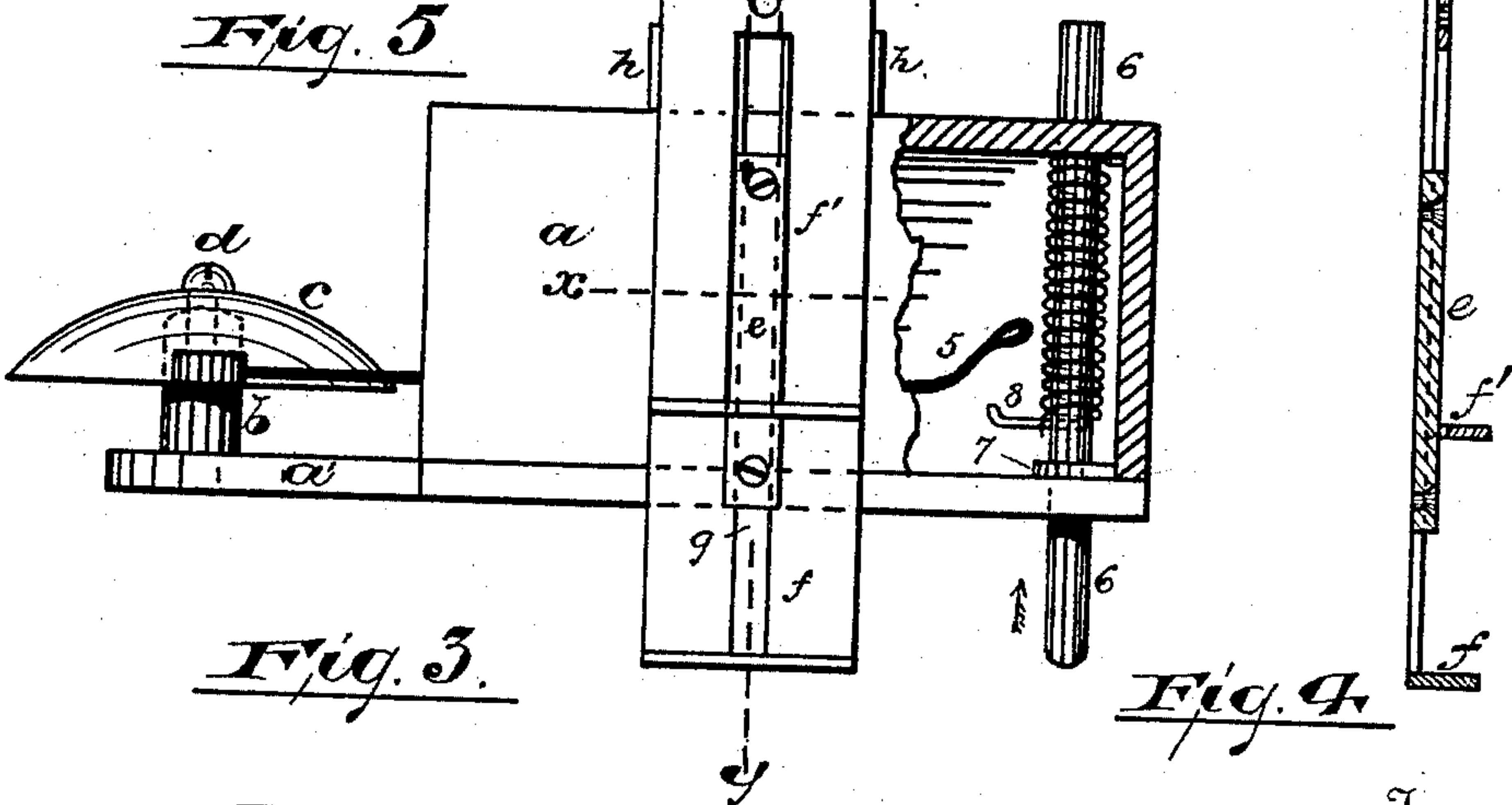


Fig. 3.

Fig. 4.

Witnesses  
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# UNITED STATES PATENT OFFICE.

ROBERT T. SMILLIE, OF NEWARK, NEW JERSEY.

## BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 395,519, dated January 1, 1889.

Application filed August 1, 1888. Serial No. 281,612. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT T. SMILLIE, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, 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.

The object of this invention is to provide at a small expense a convenient, durable, and portable burglar-alarm, which can be applied to a door or window-sash and give an alarm if an attempt be made to open it; and the invention consists in the improved burglar-alarm and in the combinations of parts thereof, substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a front elevation of a window-sash with the burglar-alarm attached to it. Fig. 2 is a front elevation of the burglar-alarm with the cap removed, showing the mechanism for operating the gong or bell. Fig. 3 is a side elevation with a portion of the case broken away, showing the detent. Fig. 4 is a sectional view of a clamp for securing the alarm to a door or window-sash on line *y*, Fig. 3. Fig. 5 is a sectional view of the clamp through line *x*, Fig. 3.

In said drawings, *a* represents a case or box for holding the mechanism for operating the alarm with the under side extending, as shown at *a'*.

*b* is a post or stud on which rests a gong or bell, *c*, of ordinary construction.

*d* is a screw for holding the gong or bell in position on the stud.

*e* is a narrow strip of metal secured to the side of the case with its edges grooved, in which slides an adjustable clamp, *f* and *f'*. The part *f* has a centrally-elongated slot, *g*, to allow it to slide on the narrow strip *e*, secured to the case. The part *f* of the clamp has a

portion of its edges turned up, as shown at *h*, Fig. 3, to serve as a guide for the part *f'*. This part *f'* rests and moves on the part *f*, as shown, and is provided with a short centrally-elongated slot, so as to allow it to pass over the strip *e*, and so arranged that the part *f* cannot pass in one direction beyond the edge of the case, while in the other direction it can slide upon the under part, *f*, throughout its whole length.

*i* is a thumb-screw for binding the two parts *f* and *f'* securely together, when the alarm is placed upon the edge of a door or on a window-sash, and is arranged to slide in the slots in the clamp.

Within the case, as shown in Fig. 2, is placed a small ordinary clock-movement with a pallet, 1, secured in the ordinary manner to the shaft 2. To this shaft is secured a rod, 3, having on its end a bell-hammer, 4.

5 is a rod also secured to shaft 2 and extending in a direction opposite to rod 4 and having its outer end bent, as shown in Fig. 3.

6 is a rod or pin with a stop-piece, 7, rigidly secured to it or made integral therewith. This pin moves freely in holes in the top and bottom of the case.

8 is a small pin or detent secured to pin 6, and 9 is a coiled wire spring surrounding said pin 6.

In the drawings I have shown the burglar-alarm as provided with a clamp or jaw, which is adjustable to any thickness of door or sash; but any other form of clamp may be used, or the alarm may be held in place by springs, and the position of the clamp on the alarm can be changed as circumstances may require.

In applying the alarm to a door the projection on the part *f* (seen in Fig. 4) is placed against the edge of the door at any point desired. The projection on the part *f'* is then brought up firmly against the opposite side of the door. The thumb-screw *i* is then tightly screwed up, and binds the two parts or jaws firmly together, thus securing the alarm to the door close to the edge, but extending outward therefrom. When the door is closed, the pin 6 strikes against the door casing or frame, and is forced inward in the direction shown by the arrow in Fig. 3 until the end is flush or even



with the case of the alarm. In this position the pin 8 engages with the end of rod 5, as shown in Fig. 2, and prevents the pallet 1 from working. The spring in the clock-movement 5 is then wound up and the alarm is ready. If the door should then be opened, either from the outside or inside, the pin 6 would be forced out by the action of the coiled wire spring into the position shown in Fig. 3, and with it 10 the pin 8, which will thus be released from contact with rod 5, and the clock-spring would instantly begin to unwind, and, by means of the pallet, cause the bell-hammer to strike intermittingly upon the bell. This ringing of 15 the bell would continue until the spring was entirely unwound or the pin was again pushed in, as before stated.

In applying the alarm to a window it is preferably secured to the window frame or casing, 20 as shown in Fig. 1, so that the pin 6 will be pushed in by the sash and held there until the sash is raised, when it will be released and the bell ring continuously, as before described.

This burglar-alarm can be made small, so as 25 to be easily carried in a satchel or trunk without inconvenience, and thus furnishes a protection to travelers when at hotels, as it can be quickly applied to any door or window.

Having thus described the invention, what I 30 claim as new is—

1. In a burglar-alarm, the combination of clamp *e f*, the part *e* being secured to the case

of the alarm, and the part *f* being adjustably secured to the part *e*, a train of wheels and a bell, a bell-hammer connected with said 35 wheels, a spring for actuating said wheels and hammer, pin 6, detent 8, secured to said pin for automatically locking and releasing said wheels, as described, and a spring adapted to hold said pin and detent normally out of con- 40 tact with the bell attachment, all said parts being arranged and combined as and for the purposes set forth.

2. The combination, in the case of a burg- 45 lar-alarm, with a train of wheels, a bell-hammer connected therewith, and a spring for actuating said wheels and bell-hammer, of a lever, 5, pivotally connected to said case and with the bell-hammer lever 3, pin 6, adapted to move in and through the upper and lower 50 walls of the case, and detent 8, secured to said pin 6 and adapted to engage with the free end of lever 5 for automatically locking and releasing the pallet 1 from contact with the train of wheels, all said parts being arranged and 55 combined substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of July, 1888.

ROBERT T. SMILLIE.

Witnesses:

OLIVER DRAKE;  
E. L. SHERMAN.