

(No Model.)

G. H. AYLWORTH.

SASH FASTENER.

No. 384,553.

Patented June 12, 1888.

Fig. 1.

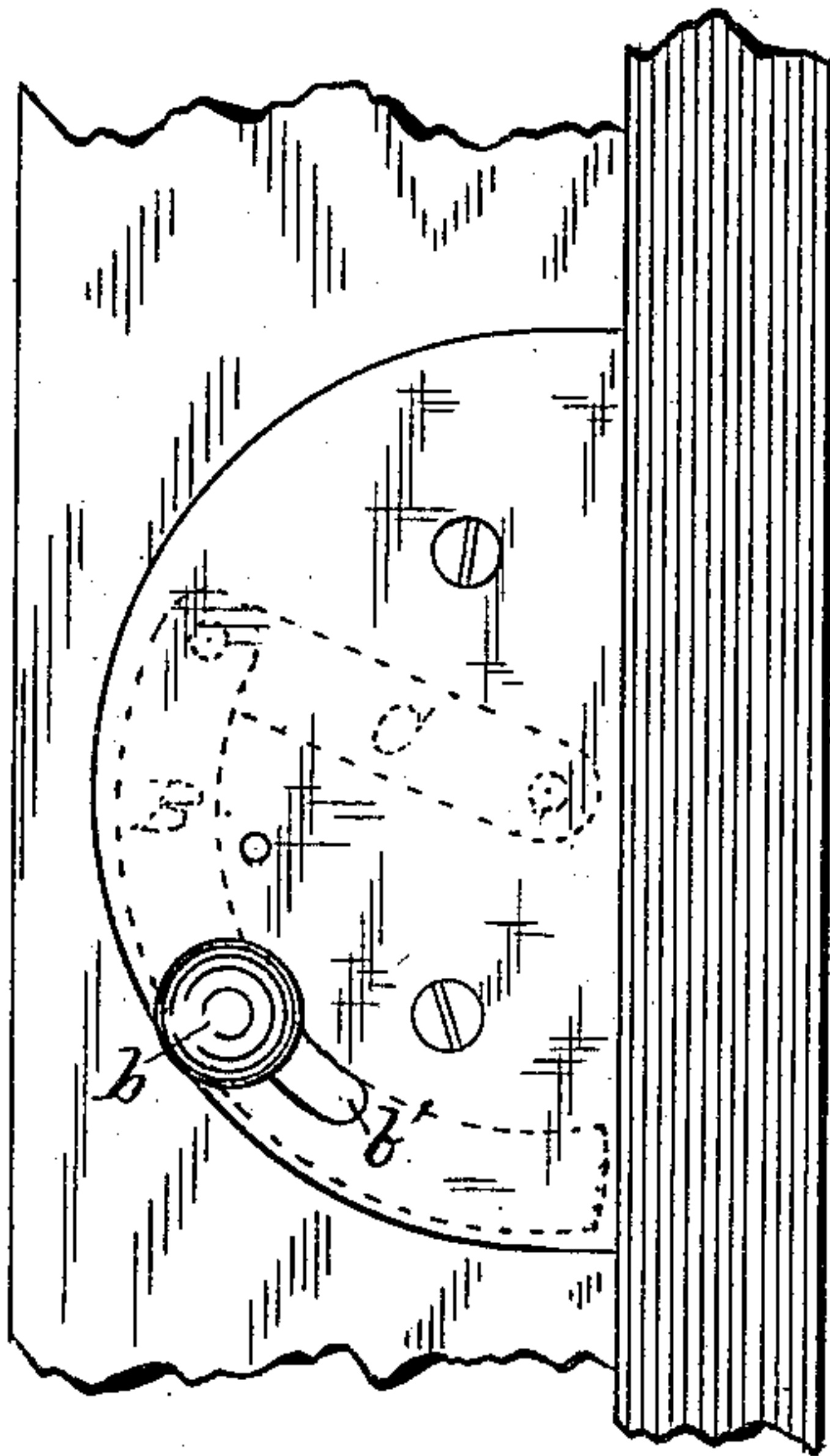
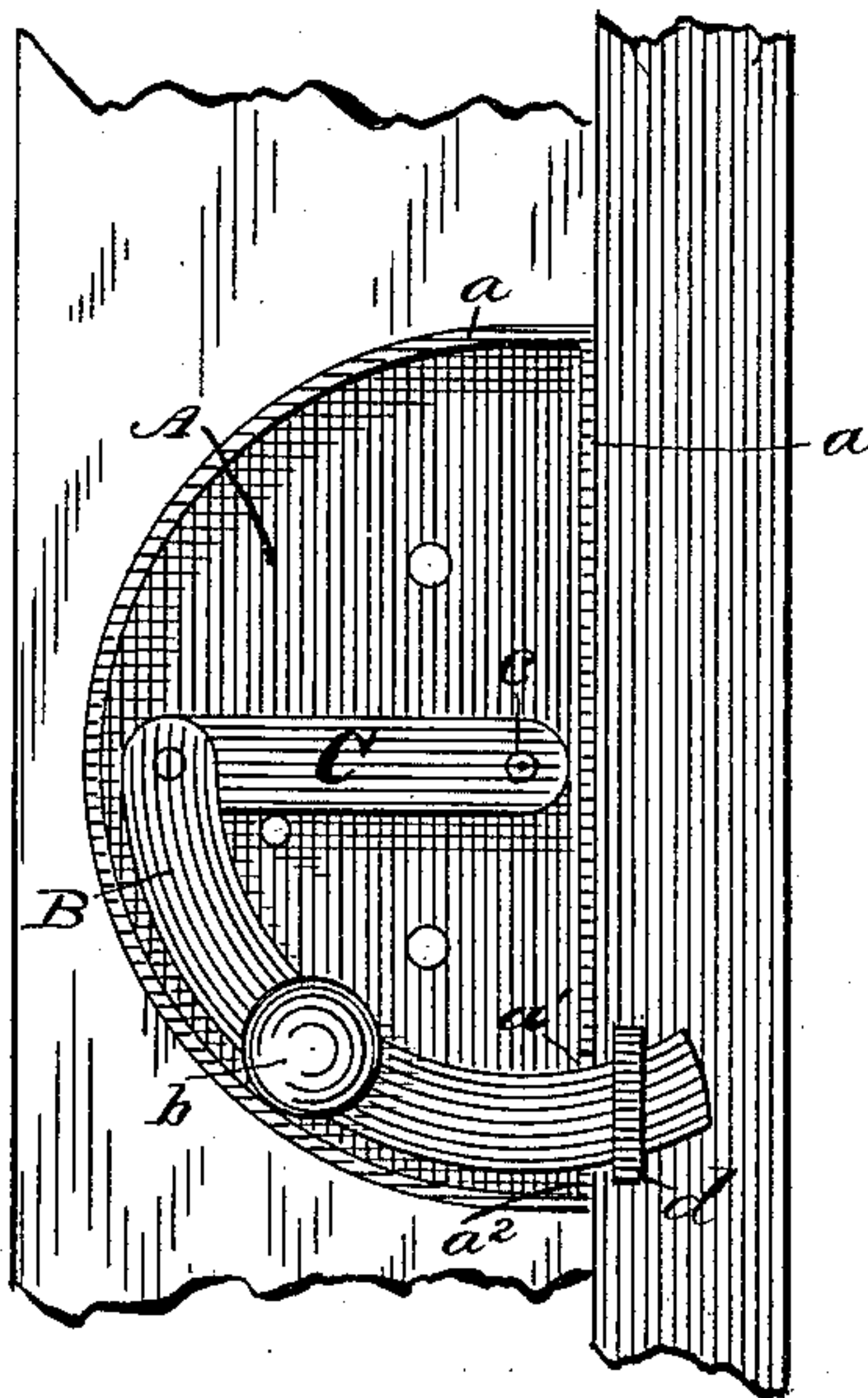


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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SASH-FASTENER.

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Application filed April 23, 1888. Serial No. 271,567. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. AYLWORTH, a citizen of the United States, residing at Brighton, in the county of Macoupin and State of Illinois, have invented certain new and useful Improvements in Sash-Locks; 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.

My invention relates to devices for locking sliding window-sashes or doors, either in open or closed position; and it comprises a curved bolt linked to a base-plate and adapted to move in a circular direction into and out of engagement with a keeper on the window or door frame, its front end adapted, when within the case, to be swung into engagement with a stop by which it is held in retracted and inoperative position.

This invention is an improvement upon that for which Letters Patent of the United States were granted to me on the 10th day of January, 1888, numbered 376,359; and it has for its object to simplify and cheapen the construction by reducing the number of parts. In my patented lock I employ a spring to throw the bolt forward into locking position, while in the present invention I dispense with the spring and depend upon gravity to throw the bolt forward.

In the accompanying drawings, which illustrate my invention and form a part of this specification, Figure 1 represents a face view of my improved lock with the bolt in retracted position, and Fig. 2 a similar view with the bolt projected as in the locking position and with the face-plate removed.

A designates a base-plate, which is preferably semicircular in shape—though it may be rectangular if so desired—and has a surrounding upturned flange, *a*, the whole forming a shallow cup or case which receives the lock mechanism.

B designates the locking-bolt, which is curved into the shape of a segment of a circle. It is provided with a knob or button, *b*, which serves as a handle by which to retract it and throw it into or out of engagement with the stop that holds it in retracted position. The shank of the button *b* works in a slot, *b'*, in the face-plate, the slot being of a length to permit the necessary movements of the bolt. The flange *a* is cut away at *a'* to form a passage for the bolt. This passage is formed

a short distance from the lower corner of the case, and that part of the flange between the passage and the corner marked *a'* on the drawings forms the stop which holds the bolt.

C designates a link, one end of which is pivoted to the bottom of the case at *c* and the other jointed to the end of bolt B.

The curvature of the bolt is such that the pivot *c* forms the center of the circle of which the bolt forms a segment, and the lower part of the passage *a'* is approximately in the radius of the outer side of the bolt, so that the latter has a true circular movement. This, it will be understood, is not essential to the operation of my lock, and the passage may be somewhat higher or lower, the only effect of such change being that the locking end of the bolt will be thrown up or down as it is projected from the case. When the bolt is entirely within the case, as represented in Fig. 1, the free end drops down behind the stop *a'*, and is retained by the latter within the case. The window is then free to be moved up or down. When the window is to be locked, the bolt is raised out of engagement with the stop *a'* by its knob or handle *b*, and as soon as it is free from the stop it will be projected by gravity and thrown into engagement with a stop or keeper, *d*, on the window-bead or on the frame.

Having thus described my invention, I claim as new—

1. In a sash-lock of the character described, the combination of a curved circularly-movable gravity-bolt, and a stop outside the line of movement with which the forward end of the bolt is adapted to engage to hold the same in retracted and inoperative position, substantially as shown and described.

2. In a sash-lock of the character described, the combination of a base plate or case, a curved circularly-movable gravity-bolt, a link-connection between the base-plate and the inner or upper end of the bolt, and a stop with which the forward end of the bolt is adapted to engage to hold the same in retracted and inoperative position, substantially as shown and described.

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

GEORGE H. AYLWORTH.

Witnesses:

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W. H. GOODELL.