

(No Model.)

T. B. ROSS.
SASH FASTENER.

No. 405,326.

Patented June 18, 1889.

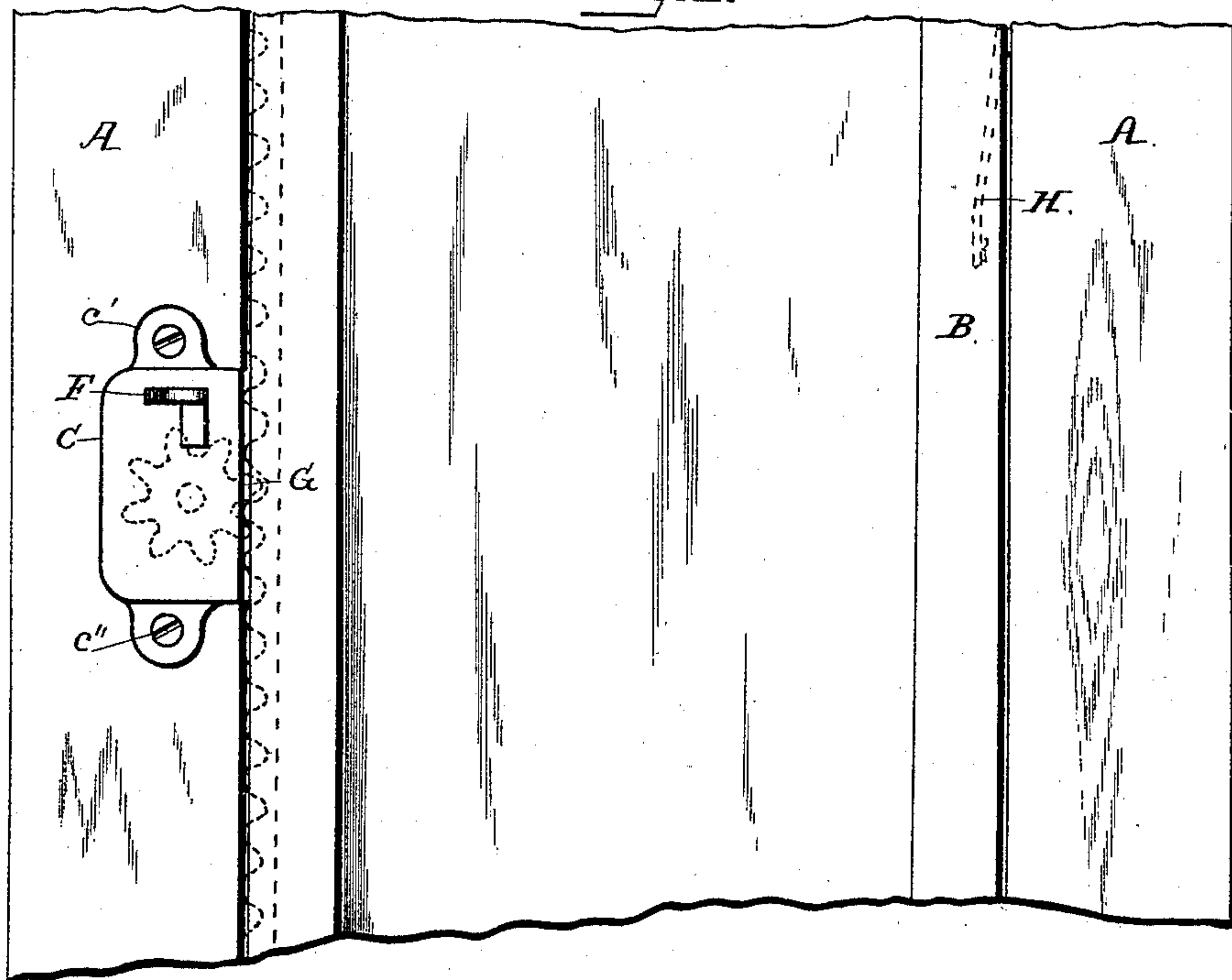


Fig. 2.

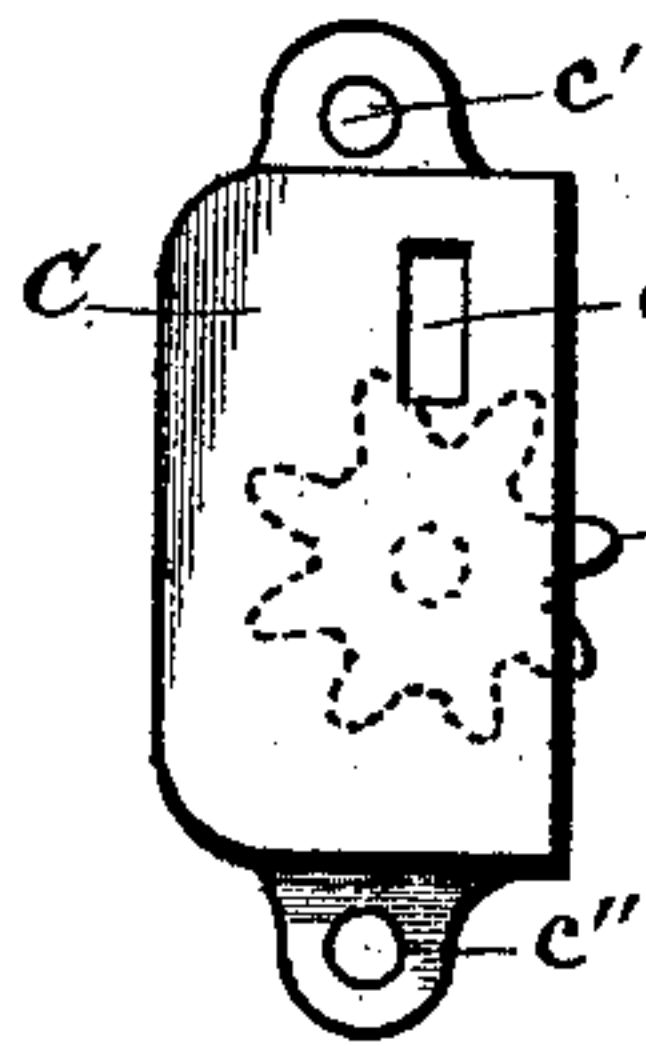


Fig. 3.

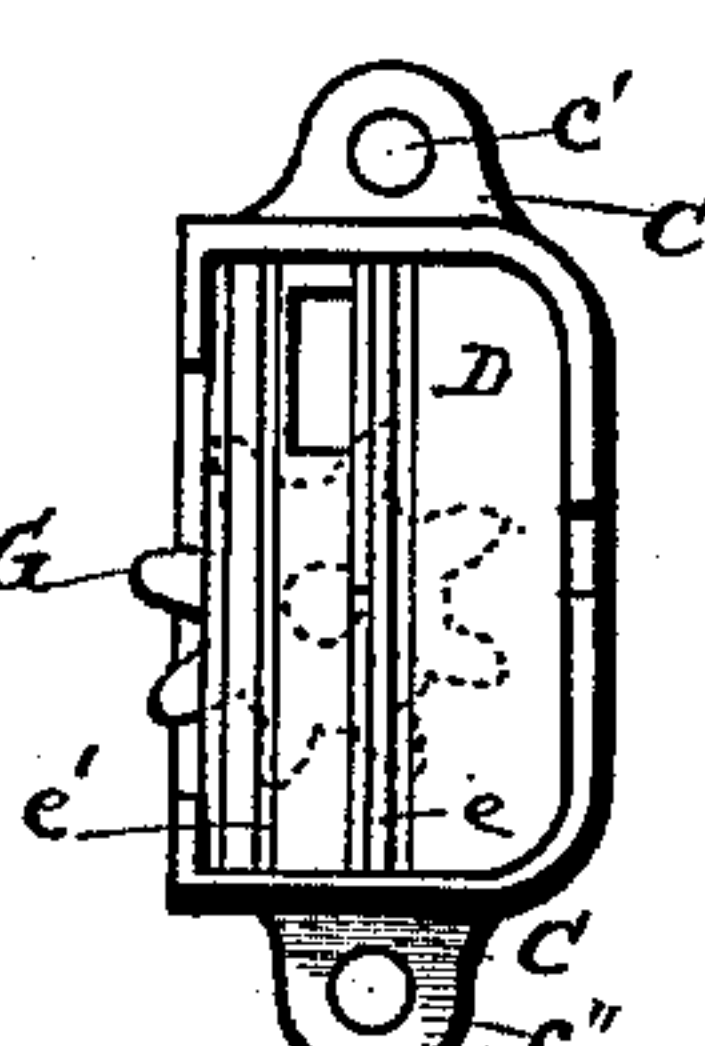


Fig. 4.

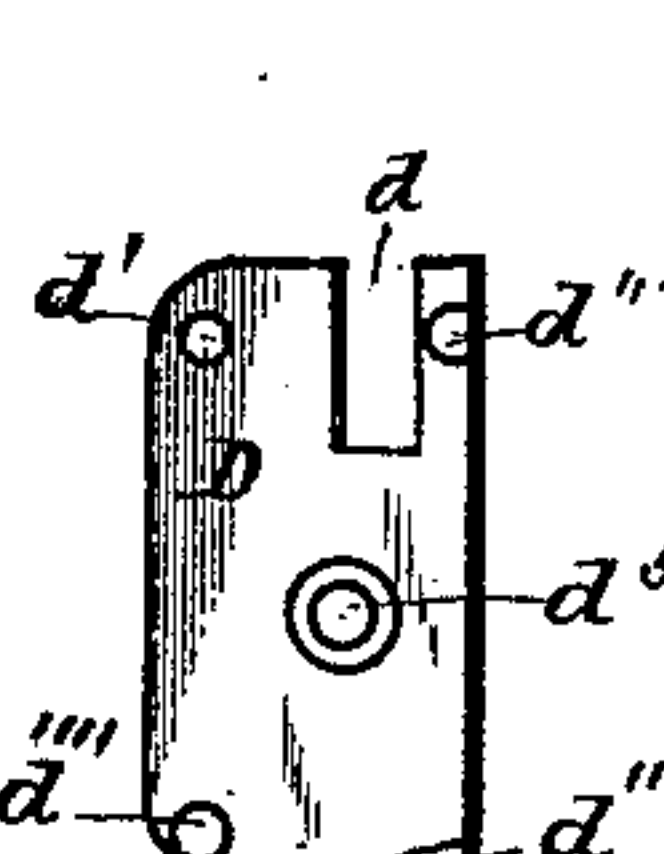


Fig. 6.

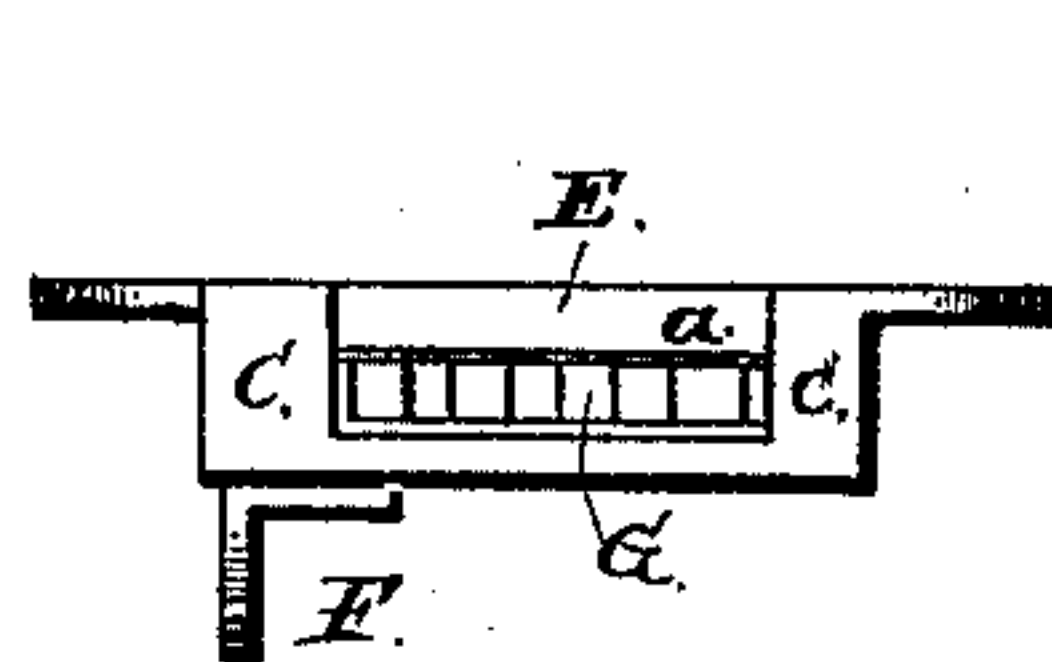


Fig. 9.

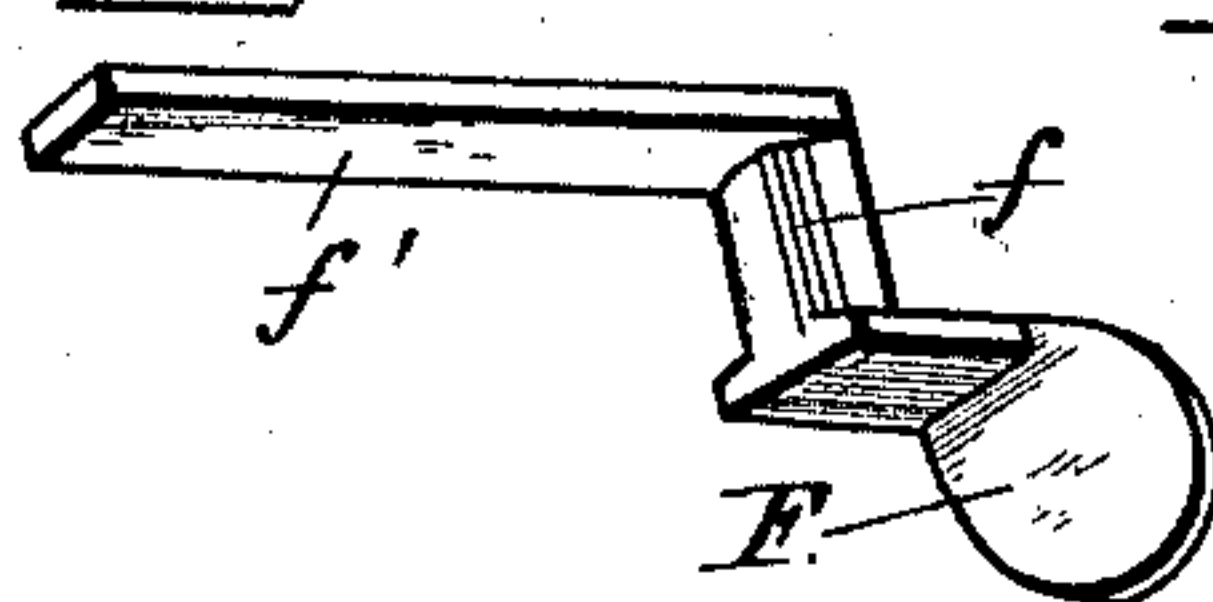


Fig. 7.

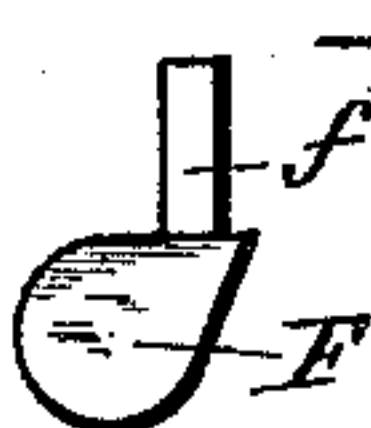


Fig. 8.

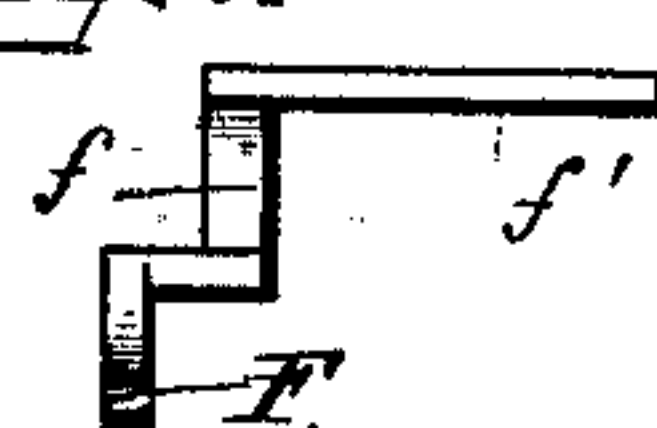


Fig. 10.

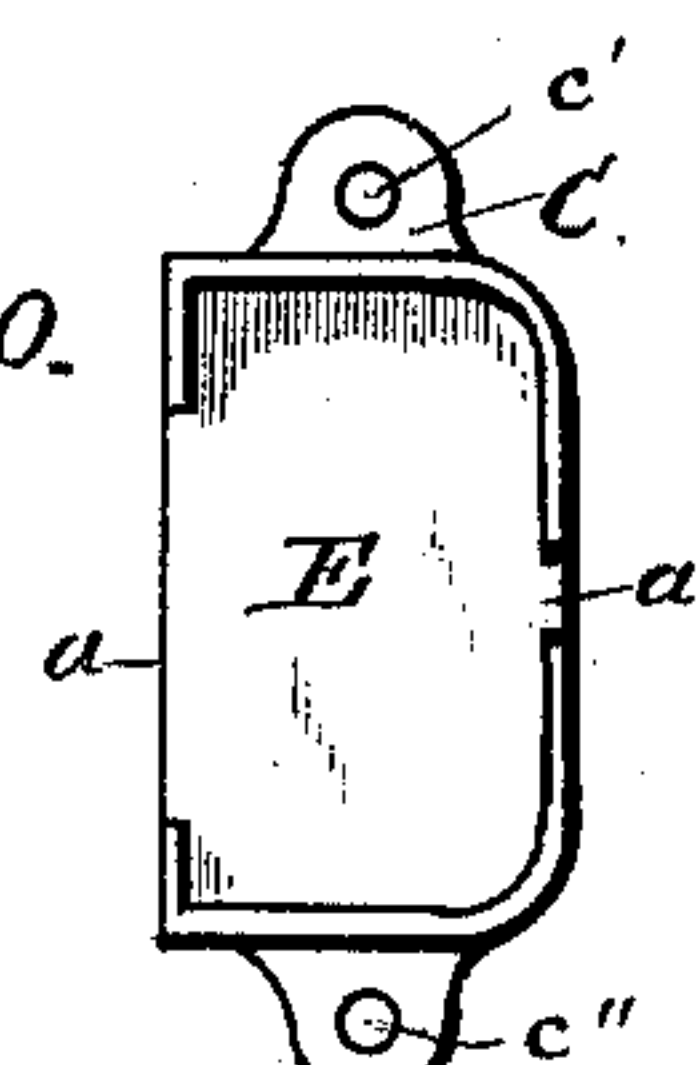
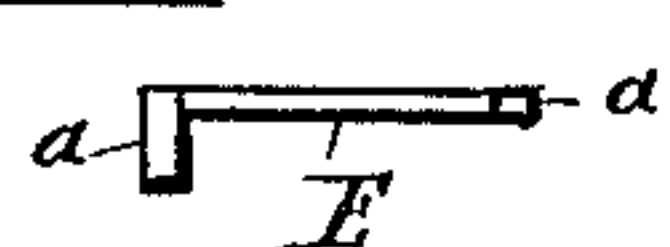


Fig. 11.



WITNESSES:

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THOMAS B. ROSS, OF EVANSVILLE, INDIANA, ASSIGNOR TO THE ROSS SASH LOCK COMPANY, OF SAME PLACE.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 405,326, dated June 18, 1889.

Application filed December 11, 1888. Serial No. 293,317. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. ROSS, a native citizen of the United States of America, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Sash-Locks; and I do 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 the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in window-fasteners, and has for its object to lock the sash in any position in which it may be placed, and thus prevent the sash from being either raised or lowered; and it consists, essentially, in combining a gravitating locking-pawl with a gear-wheel located in a box in the window-casing and adapted to engage a rack-bar attached to the adjacent edge of the window-sash.

Figure 1 is a front view of a window frame and sash provided with this attachment. Fig. 2 is a detached view of the box with the pawl removed, and that portion of the gear-wheel which is inside of the box is indicated in broken lines and that part of the wheel which extends to the outside of the box (to engage with the rack-bar) is shown in full lines. Fig. 3 is a view of the opposite side of the box. Fig. 4 is a detached view of a plate D removed from the box C, taken from the opposite side to that shown in Fig. 3. Fig. 5 is an end view of plate D. Fig. 6 is an edge view of the box C complete, and shows the gear-wheel G, pawl F, and the inclosing-plate E. Figs. 7 and 8 are detached views of the pawl F. Fig. 9 is a perspective view of the pawl F enlarged. Fig. 10 shows side of box C which goes against the window frame or sash. Fig. 11 is an end view of the plate E removed from the box C.

The letter A indicates a window-frame; B, a sash.

C is a metal box adapted to be secured to a window frame or sash, either by lugs and screws, as shown in the drawings, or by being let into the window frame or sash in any suit-

able manner, so that some of the teeth of the gear-wheel may project therefrom and engage with a rack-bar secured to the sash or to the window-frame. Thus, if the rack-bar is secured to the sash, then the box C is attached to the window-frame, or if the box C is secured to the sash, then the rack-bar is fastened to the window-frame, whichever best suits the convenience of the builder. The box C has a slot *c*, for the passage of the pawl F, which slides up and down therein a sufficient distance to drop between any two of the teeth of the gear-wheel G and lock the wheel in the position it may be in at the time the pawl F is dropped. To release the wheel G, the pawl F must be lifted clear of the teeth of the wheel. The box C has two other openings *c'* *c''*, for the passage of screws by means of which it may be secured either to a window-frame or a sash. The box C is adapted to receive a plate D, having a slot *d* for the passage of the pawl F, and supporting-legs *d'* *d''* *d'''* *d''''* and a stud *d⁵*, which enters the central opening of the spur-wheel G and forms the bearing upon which it revolves. The plate D is also provided with guides *e* *e'* for the extension *f'* of the pawl F, which slides between the two.

The pawl F acts by gravity, and in its normal condition the connecting-piece *f* rests between two of the teeth of the gear-wheel G, in which position the wheel remains locked. The part F serves as a handle, by means of which the pawl may be raised sufficiently to permit the gear-wheel to revolve, and thereby allow the window-sash to be opened or closed. A cap or cover E, having parts *a* *a'*, is fitted to the box C.

It will be observed that the box C and its accessories may be constructed entirely of simple castings with scarcely any fitting, thus securing a very cheap construction.

H is a spring attached to one side of the sash. It may or it may not be employed.

This sash-fastener is to be used either on car or house windows, and is an improvement upon the one for which Letters Patent were granted me, No. 319,324, June 2, 1885.

Having described my invention, what I desire to secure by Letters Patent and claim is—

In a sash-fastener, the combination, with a

widow frame or sash provided with a rack-
bar, of a box C, having a slot *c*, a plate D,
having a slot *d*, legs *d'* *d''* *d'''* *d''''*, stud *d*⁵,
and guides *e e'*, a pawl F, having connecting-
5 piece *f* and extension *f'*, adapted to slide, re-
spectively, in the slots *c* and *d* and between
the guides *e e'*, and a gear-wheel adapted to
revolve upon the stud *d*⁵, as shown and de-
scribed, and for the purposes set forth.

In testimony whereof I affix my signature in 10
presence of two witnesses.

THOMAS B. ROSS,

Witnesses:

J. E. WILLIAMSON,
JAMES M. BRITE.