

G. ERKSON.

Fasteners for the Meeting-Rails of Sashes.

No. 152,734.

Patented July 7, 1874.

FIG. I.

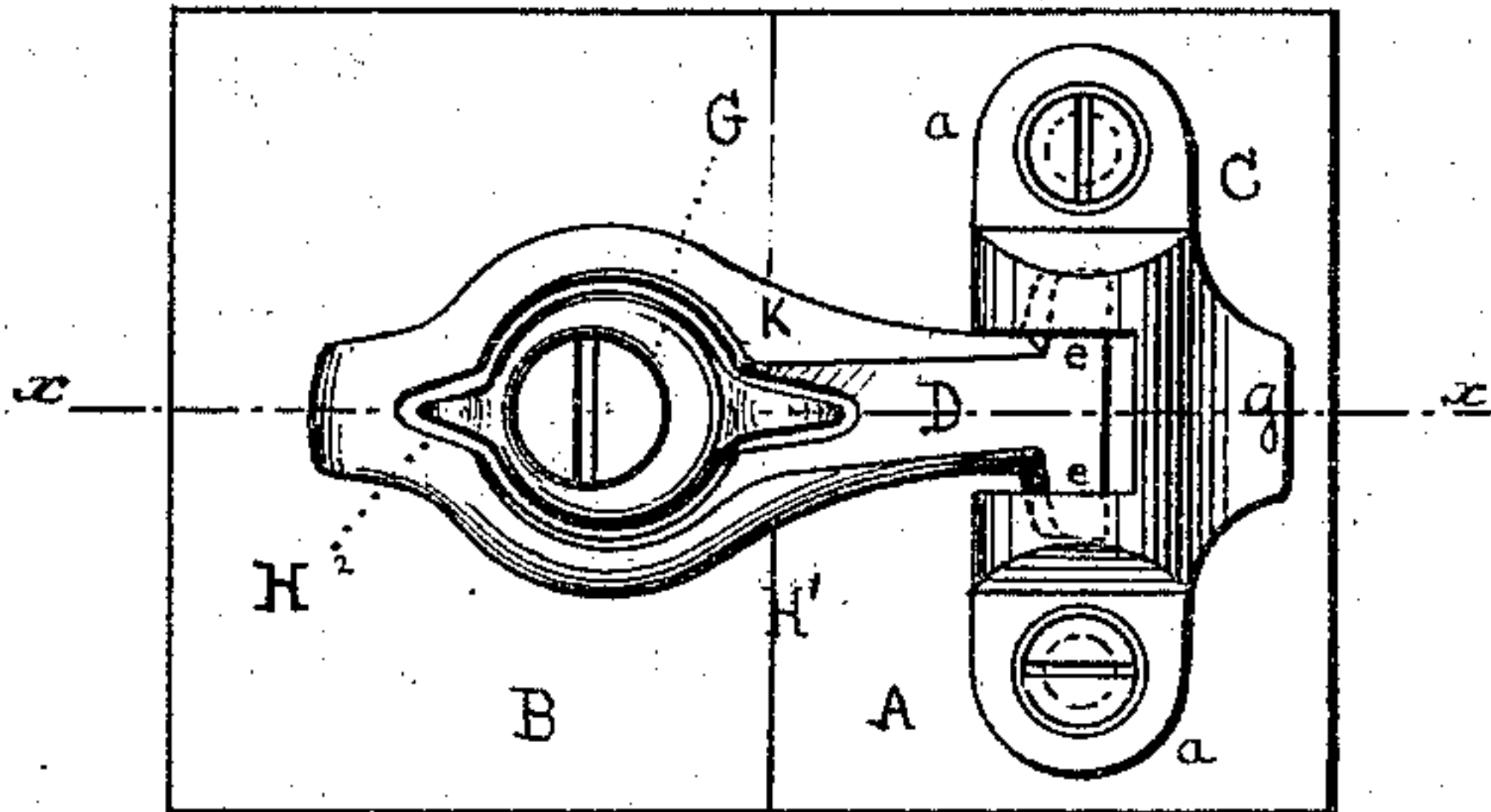


FIG. II.

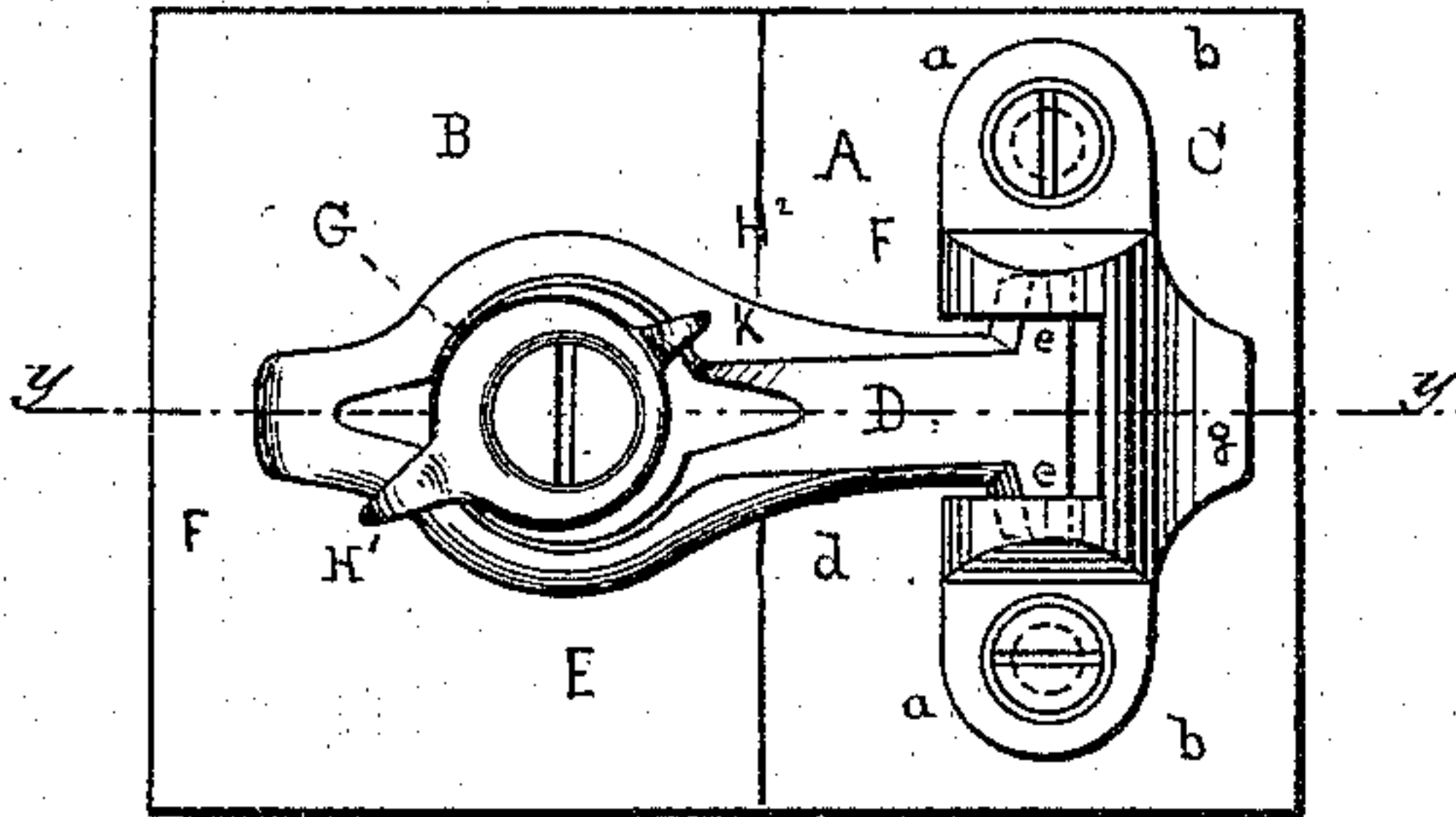


FIG. III.

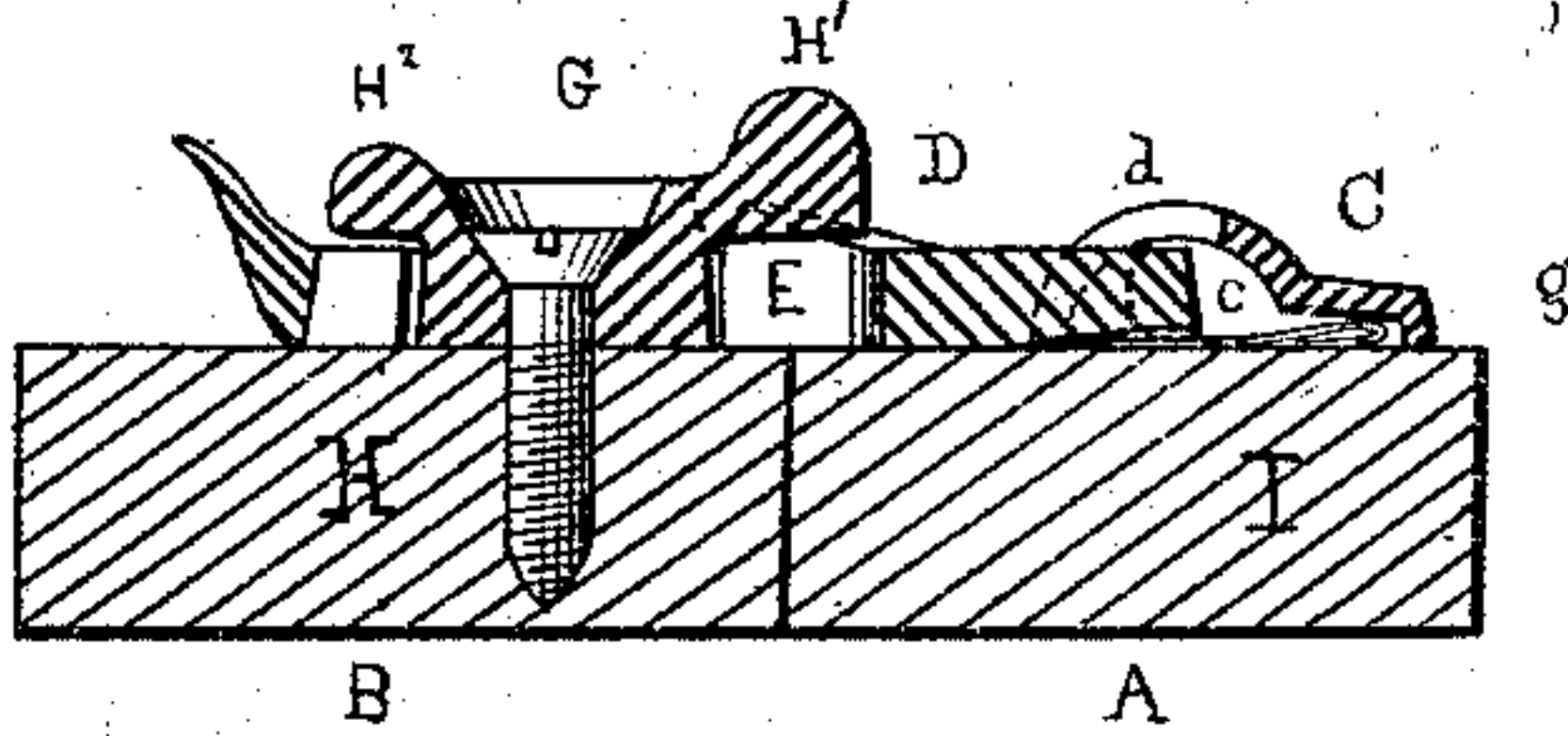
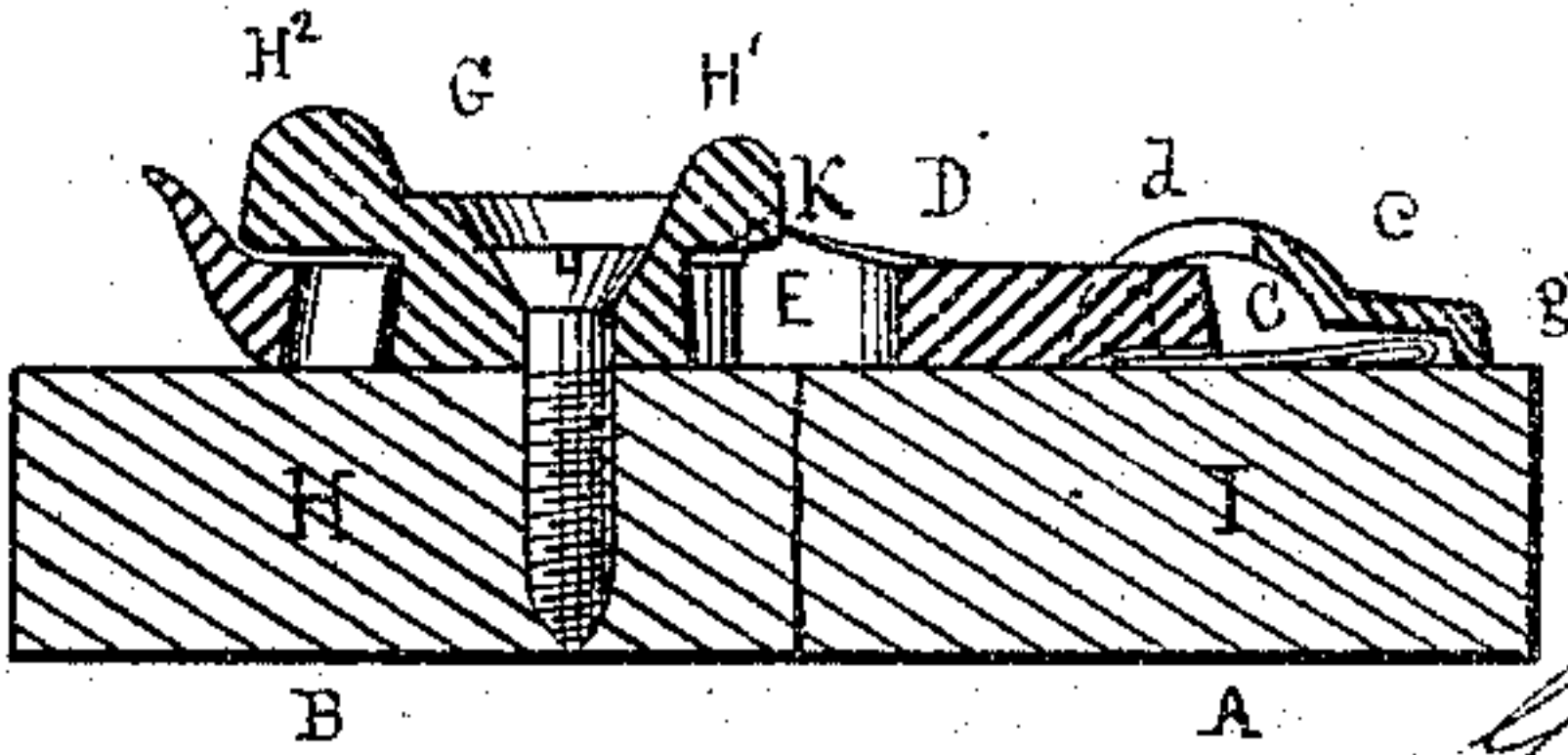


FIG. IV.



WITNESSES:

A. M. Norris
Wm. J. Peyton

INVENTOR:

Garrett Erskson
By James L. Norris
Atty.

UNITED STATES PATENT OFFICE.

GARRETT ERKSON, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO GEORGE I. COLLINS, OF SAME PLACE.

IMPROVEMENT IN FASTENERS FOR THE MEETING RAILS OF SASHES.

Specification forming part of Letters Patent No. 152,734, dated July 7, 1874; application filed June 3, 1874.

CASE B.

To all whom it may concern :

Be it known that I, GARRETT ERKSON, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Sash-Lock, of which the following is a specification :

This invention has for its object to furnish a simple and effective fastening device for the meeting-rails of window-sashes, whereby a tight joint is secured between the contiguous faces of the sashes so as to prevent the passage of rain and wind, and to preclude the possibility of tampering with the lock by the insertion of instruments from the outside. This invention consists of a hinged fastening-plate, having an eye or opening and lateral slots, and an inclined surface or ridge for operation, in connection with an eccentric or cam-shaped button having wings, the whole constructed in such a manner that, by passing the hinged fastening-plate over said button, and turning the latter, its cam-surface will draw forward the hinged fastening-plate, and its wing, passing up the inclined ridge, will press the plate firmly against the meeting rails, as hereinafter described.

In the accompanying drawings, Figure 1 is a plan view of my improved fastening device, with the pivoted plate in position to be raised. Fig. 2 is a similar view, representing the fastening-plate when locked by the button. Fig. 3 is a section taken on the plane of the line *x x*, Fig. 1. Fig. 4 is a section taken through the line *y y* of Fig. 2.

The meeting rails of a pair of sashes to which my fastening device is applied are designated by the letters A B; and C represents a metallic socket-plate, which is provided with lateral flanges *a a* for attaching the same to the rail of the sash A by ordinary wood-screws *b b*. The socket plate or bar is formed with an interior cavity, *c*, and with an opening, *d*, in its top and front surface, so as to adapt it for the reception of gudgeons or journals *e e* made on the inner extremity of a latch-bar or fastening-plate, D. The body of said bar or plate is enlarged horizontally, and is provided with a circular eye or open-

ing, E, having oppositely-located slots F in communication with or in prolongation thereof. Said eye is designed for the reception of a button, G, applied to the meeting rail of the other sash by means of a fastening-screw, H, which passes through an opening formed in the button, and penetrates the rail of the sash to a sufficient degree for preventing the easy removal of the screw in use.

The screw being separate and distinct from the button the latter can be manufactured at a comparatively small cost, and be applied more readily in position; furthermore, when the screw becomes broken or loose from any cause whatever it can be replaced by a new one, the thread of which is sufficiently large to fit the opening in the sash.

The button G is cam-shaped, or the opening through the same may be eccentrically disposed, so as to form an eccentric outer circumference.

When the sashes are unlocked, the button G is in the position shown in Figs. 1 and 2—that is, the wings or projections *H¹ H²* formed on the same are in line with the slots F, so as to enable the fastening-plate to be readily raised or disengaged from the button and to be thrown into a vertical or erect position, in which it is retained by a flat spring or tongue, I, located within the chamber of the box C, and bearing against the heel of the fastening-plate. The rear end of said spring is inserted into a seat or extension, *g*, of the socket-plate or box.

When the fastening-plate is thrown down and the button inserted into the same, all that is necessary to lock the sashes is to turn the button in the proper direction upon its fastening-screw, which will cause the cam-shaped surface of the button to come in contact with the front or outer-end portion of the eye of the fastening-plate, so as to draw the latter horizontally to such an extent as will tend to draw the contiguous faces of the meeting rails firmly in contact with each other. The requisite movement of the fastening-plate is rendered possible by making the chamber for its journals or gudgeons large enough for this

purpose. Simultaneously with the forward movement of the fastening-plate the same is also pressed firmly down upon the meeting rails, for precluding the possibility of rattling, by means of the projection H, which ascends in its movement a gradually-rising surface or ridge, K, at one side of the eye in the fastening-plate, and thus causes a downward pressure to be exerted upon said plate for the object stated. The ridge K terminates abruptly at the slot F, so as to form a shoulder for limiting the movement of the button in that direction.

I claim as my invention—

The hinged fastening-plate D, having an eye, E, slots F, and incline surface or ridge K, in combination with the eccentric or cam-shaped button G, having wings H H', substantially as herein described, and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 30th day of April, 1874.

GARRETT ERKSON. [L. S.]

Witnesses:

C. R. HENRY,

ALEXR. H. HENRY.