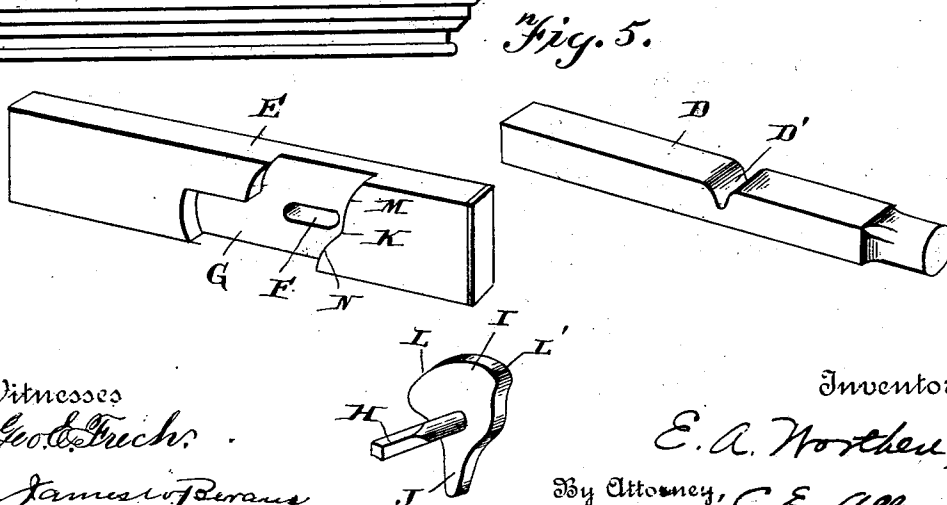
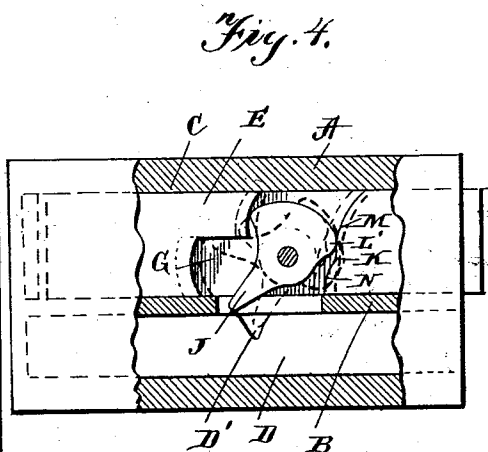
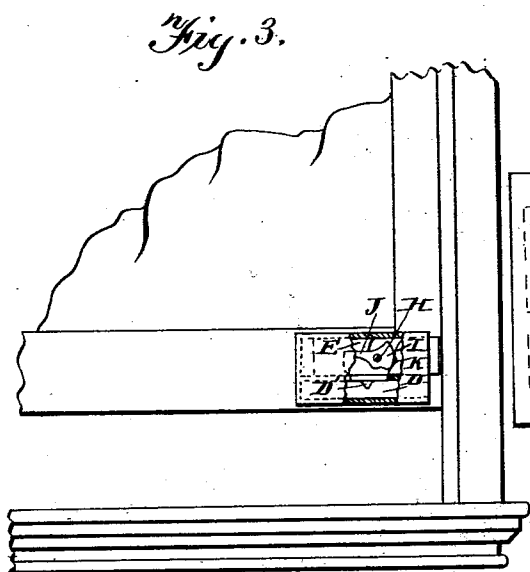
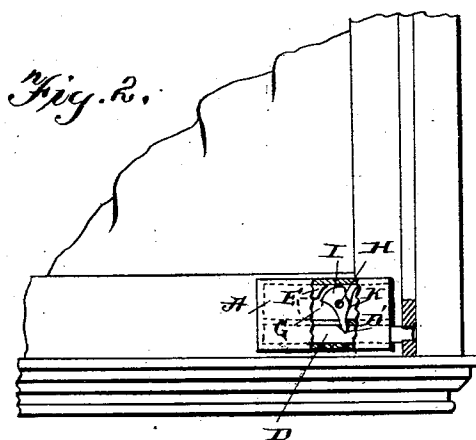
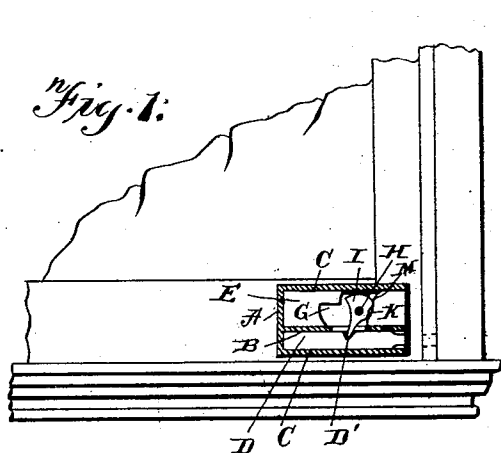


(No Model.)

E. A. WORTHEN.
SASH HOLDER AND FASTENER.

No. 564,813.

Patented July 28, 1896.



Witnesses

Geo. C. Frick.

James O. Berans

Inventor

E. A. Northern,

By Attorney, *C. E. Allen*

UNITED STATES PATENT OFFICE.

EDWARD A. WORTHEN, OF BURLINGTON, VERMONT.

SASH HOLDER AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 564,813, dated July 28, 1896.

Application filed February 27, 1896. Serial No. 581,000. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. WORTHEN, a citizen of the United States, residing at Burlington, in the county of Chittenden and State of Vermont, have invented certain new and useful Improvements in Sash Holders and Fasteners; 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.

This invention pertains to improvements in combined sash holders and fasteners, and its object is to provide a device of simple and improved construction for locking the window either raised or lowered, and also adapted to hold the window in any desired position in the frame.

A further object is to provide a single operating device for actuating both the holding and fastening mechanism.

The invention consists in certain novel features of construction hereinafter fully described and claimed, and illustrated by the accompanying drawings, in which—

Figure 1 is an elevation of my improved device shown in position upon a window-sash, the front of the case being removed to show the interior arrangement. Fig. 2 is a similar view of the window secured by the fastening device. Fig. 3 is a similar view showing the window held in a partly-raised position by the holding device. Fig. 4 is a detail view illustrating the manner in which the holding device is adjusted. Fig. 5 illustrates in detail the several parts of my improved device.

A designates the case which is secured to the window-sash, said case being provided with a longitudinal partition B, formed with the elongated passage-ways C.

D is the fastening-bolt adapted to move longitudinally in the lower passage of the casing beneath the partition, said bolt being provided upon its upper edge with the nick or depression D'. The holding device consists of a bolt or foot, preferably faced with a rubber frictional disk movable longitudinally in the upper portion of the casing and adapted when projected to press against the window-frame and thus hold the sash at the desired adjustment by frictional contact.

This holding device E has the short longitudinal slot F, and upon its front face is formed with depression G. The turning shaft or stem H projects backward through depression G, slot F, and is mounted to turn in the rear wall of casing A. Secured to shaft H within depression G is the head I for effecting the movement of the holding and fastening devices. The movement of bolt D is effected by the nib or projection J, which when turned downward engages depression D' and by turning the shaft or stem the bolt is moved either in or out, as desired.

The upper portion of head I constitutes a cam, and in order to have the head turn so as to adjust bolt D without affecting the pressure foot or bolt E, I provide the forward wall of depression G with the curved offset K, formed concentric with the shaft H, while head I is provided with the rounded portion concentric also with the shaft and fitting the offset K, so that the head and shaft are afforded a turning movement sufficient to adjust the bolt D either in or out without moving bolt E. When, however, the pressure foot or bolt E is to be pushed outward, the turning movement of the shaft H and the head is continued so as to throw the cam-surface L of the head against shoulder M of the forward wall of depression G, thus causing bolt E to be moved outward, and when the forward extremity L' of the cam-surface L reaches depression K, as indicated in Fig. 4, the bolt E is held positively from backward movement. By continuing the turning of the shaft still farther the point L' of the cam-surface may be brought down to engagement with shoulder N below the indentation K, and thus the pressure foot or bolt E projected outward still farther and at the same time held from backward movement.

When adjusting the bolt E, the extension J of the head for moving bolt D is turned upward into the rear part of the depression G, as shown. Thus by turning the shaft or stem in one direction the holding and locking bolt D is projected, while a turn of the shaft in the opposite direction draws said bolt backward into the casing, and a continued movement of the shaft serves to project holding-bolt E as well as to lock the same in the projected position against the window-frame, so

as to hold the sash at the desired elevation by frictional contact.

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

1. The combination of a fastening-bolt, a pressure foot or bolt, and an operating device fixed from lateral displacement adapted when moved in one direction to adjust the securing-bolt and when moved in the opposite direction to adjust the pressure-foot, the movement of the bolt and foot being entirely independent of each other, substantially as shown and described.

2. The combination of the longitudinally-movable bolt and foot arranged in vertical succession and adjacent each other, the foot being formed with a depression, a cam-head adapted to turn in said depression to adjust the foot, and the nib projecting from the head and adapted to engage and reciprocate the bolt, the depression in the foot being sufficiently deep to accommodate the cam-head, whereby the operating device is contained within the transverse extent of the bolt and foot, substantially as shown and described.

3. A combined sash holder and fastener comprising the fastening-bolt provided with a depression in its edge, the pressure-foot or

holding-bolt having a depression in its face and slotted longitudinally, the turning stem or shaft extended through said slot, the cam-head mounted upon the shaft and positioned within the depression of the holding-foot, the cam-head being adapted to engage the walls of the pressure-foot for operating it, and the nib projected from the head and into the depression of the fastening-bolt, substantially as shown and described.

4. An improved sash-holder comprising the pressure foot or bolt E formed with a depression in its face, the wall of the depression having the curved indentation K, the cam-head adapted to turn in said depression, shoulders M and N on opposite sides of the curved depression K, and out of vertical line, said shoulders being adapted to be engaged by the cam-head for affording the pressure-foot different degrees of extension or projection, the same being held in either degree from backward movement by the cam-head, substantially as shown and described.

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

EDWARD A. WORTHEN.

Witnesses:

GILBERT A. DOW,
CHARLES E. ALLEN.