(Model.)

F. H. GROSS.

SASH HOLDER.

No. 275,903. Patented Apr. 17, 1883.

Fig. 1

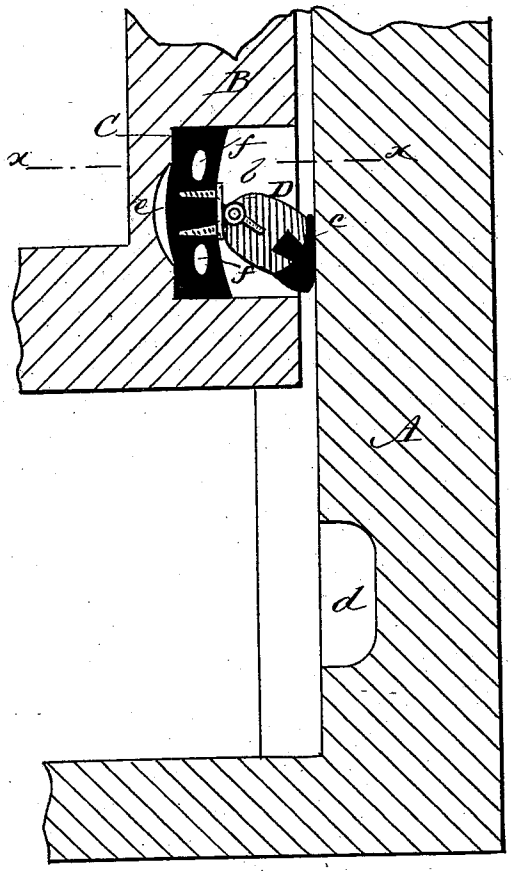


Fig. 2

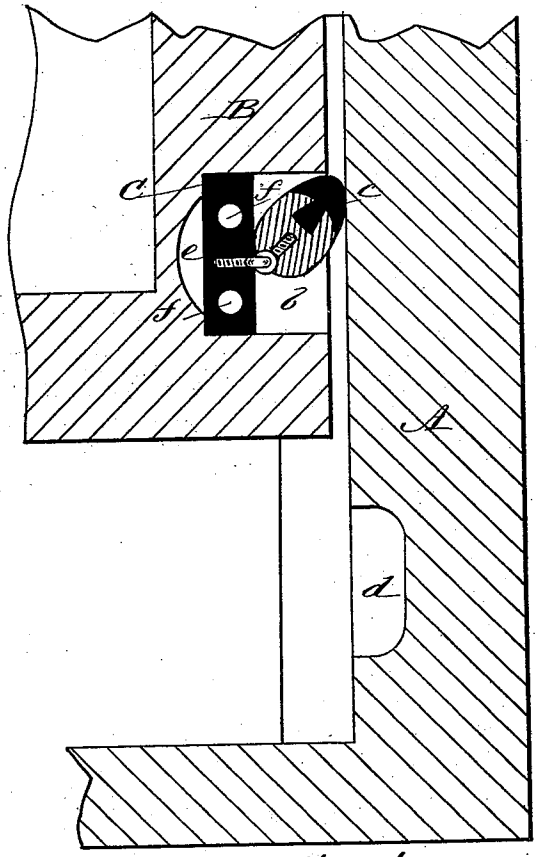


Fig. 3

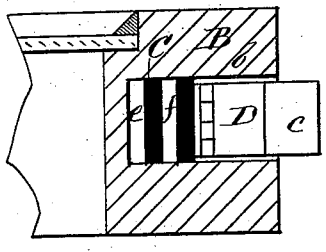
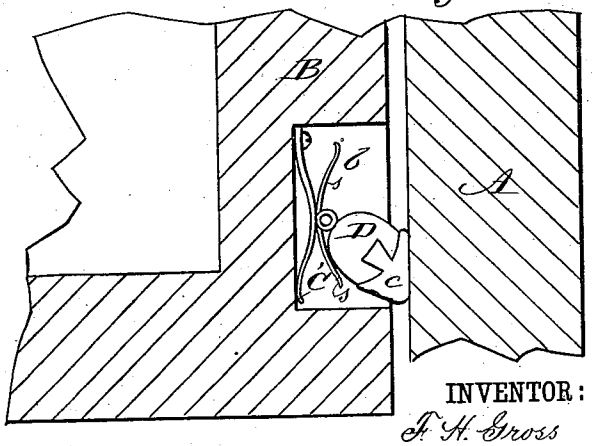


Fig. 4



WITNESSES:

C. Neveux

C. Sedgwick

INVENTOR:

F. H. Gross

BY

ATTORNEYS.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK H. GROSS, OF DEER ISLE, MAINE.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 275,903, dated April 17, 1883.

Application filed November 11, 1882. (Model.)

To all whom it may concern:

Be it known that I, FREDERICK H. GROSS, of Deer Isle, in the county of Hancock and State of Maine, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a full, clear, and exact description.

This invention relates to sash-fasteners which are jointed or attached in a swinging manner to the sash and bear against the window-frame to automatically hold the sash in any position to which it may be raised or lowered; and the invention consists in the novel construction of such a sash-fastener and certain combinations of parts, including an oblong button or holder hinged or jointed to a back spring arranged within the sash, whereby a very efficient automatic action is secured for the fastener; and the device combines simplicity, cheapness, and durability with easiness of application and a ready adaptability to sashes of either a loose or close fit, as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a front sectional view of a window-frame and sash, in part, with my improved sash-fastener applied, and as in position for holding the sash when raised. Fig. 2 is a similar view of the window-frame and sash, showing the fastener in the position it assumes when the sash is being lowered; Fig. 3, a transverse section through the sash on the line *x x* in Fig. 1; and Fig. 4 is a front sectional view, in part, of a window frame and sash having a modified construction of my improved fastener applied.

Referring in the first instance to Figs. 1, 2, and 3 of the drawings, A indicates one of the uprights of the window-frame, and B a raising and lowering or sliding sash fitting the frame. Said sash has a recess, *b*, made in its side or edge, within which the fastener or sash holder is arranged.

The fastener is constructed substantially as follows: C is a rubber spring inserted within the recess *b* and resting against the back thereof. Pivoted to the outer or face side of this rubber block or spring C, either by cross-links, as shown in Fig. 2, or by a regular hinge-joint, as shown in Figs. 1 and 3, is an oblong button or holder, D, which may be made of metal tipped on its outer end with rubber or other yielding material, *c*, that will readily induce friction or grip. This button D is hinged or jointed at the inner end of its major axis to the spring C, and is of such length that when extended outward it projects beyond the face edges of the recess *b*.

The operation is as follows: Supposing the sash to be down or closed, and it be necessary to raise it, then, after the sash has been raised sufficiently high, hold of it is released by the hand, and the weight of the sash operates to turn the button D so that its rubber or yielding tip *c* bears against or takes hold of the window-frame, as shown in Fig. 1, and by reason of the oblong form of said button or holder the harder it presses in its tendency to assume a position which will raise its major axis into a horizontal position the better it holds. When, however, it is required to lower or close the sash, it is only necessary to apply sufficient manual force thereto as, in addition to the weight of the sash, will cause the spring C to be compressed to an extent that will admit of the major axis of the button passing the horizontal line and of the button being turned up or over, as shown in Fig. 2, when the sash will be free to drop. If it is not required to bring the sash wholly down, then by pushing it up a little the rub of the button D against the window-frame causes the spring C to yield and the button to be reversed again, ready to grip or hold onto the window-frame, as before.

It is desirable to form a recess, *d*, in the lower part of the upright of the window-frame for the button D to enter when the sash is wholly closed, in order that the button D may be at liberty to turn over of its own weight, which will do away with manipulation of the sash to put the button into working position again against another raising of the sash.

Although the hereinbefore description has been restricted to a lower sash, it is evident that the fastener may be applied with like advantage to an upper one.

The rubber or yielding tip *c* on the button provides for the quick clinging or sticking of the button to or against the window-frame,

which the metal body of the button, if brought in contact with the window-frame, would not do, but simply provide for the easy running up or down of the sash.

The fastener can readily be adjusted to sashes of different sizes, or which have a tight or loose fit, as the hard body or inner end of the button presses against the spring C, which will either yield or give out to meet the requirements of the fit, a recess, *e*, being formed in the sash back of the spring to provide for the yielding of it; also holes *f* being made in the rubber spring, if desired, to give it increased elasticity and adjustability.

In Fig. 4 the button or holder D is shown as jointed or hinged to a steel spring, C′, instead of the rubber one. This metal spring may be fastened at its one end by a screw to the back of the recess *b* in the sash, and its other end be turned up and left free to rub on the back of the recess as it works in springing or being compressed. Said back spring, C′, may be faced with a supplementary spring, *s*, for holding the button D out against the frame.

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

1. In a sash-fastener, the combination, with a spring adapted to be secured in a recess of the sash, of an oblong button or holder hinged to the said spring, substantially as herein shown and described.

2. In a sash-fastener, the combination, with the sash B, provided with the recess *b e*, and the spring C, provided with perforations and secured in said recess, of the oblong button D, hinged to the said spring, and having rubber tip *c* on its outer end, substantially as herein shown and described.

3. In a sash-fastener, the upright A of the window-frame, provided with the recess *d* in its lower part, in combination with the sash B, provided with the recess *b*, the spring C, secured in said recess, and the button D, hinged to said spring, substantially as herein shown and described, whereby the button is permitted to turn over of its own weight, as and for the purpose set forth.

FREDERICK H. GROSS.

Witnesses:
GEORGE W. HIGGINS,
AUGUSTUS O. GROSS.