J. W. REYCROFT.

Sash-Holder.

No. 160,470. Patented March 2, 1875.

Fig. 1.

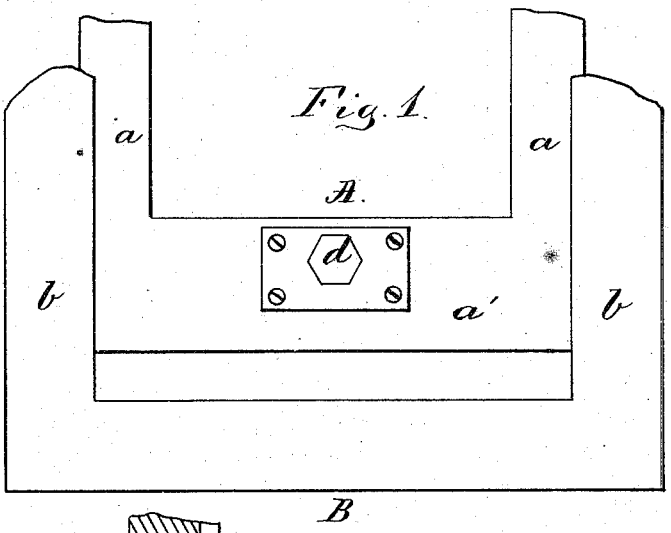


Fig. 3

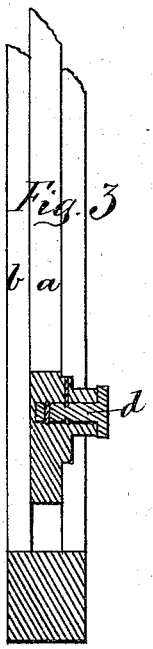
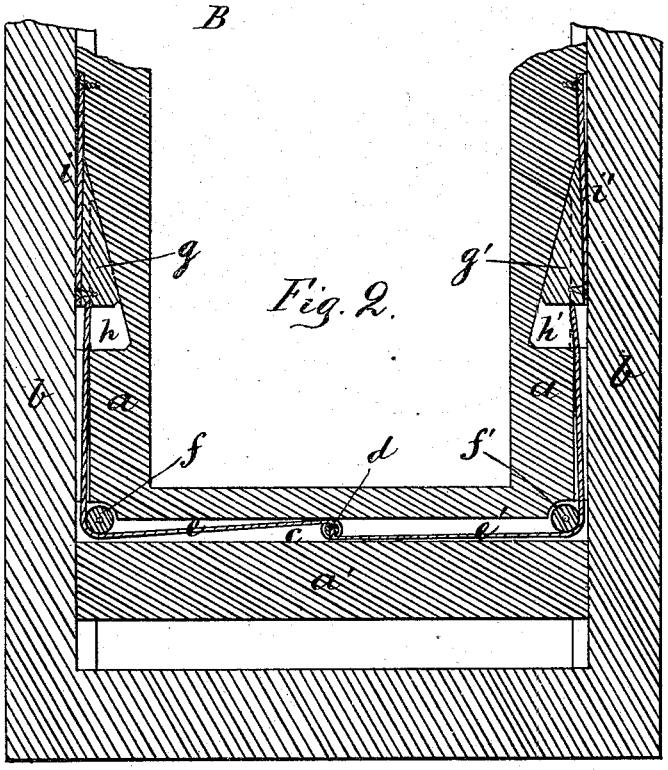


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOSEPH W. REYCROFT, OF EAST CAMBRIDGE, MASSACHUSETTS.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **160,470**, dated March 2, 1875; application filed January 29, 1875.

CASE B.

To all whom it may concern:

Be it known that I, JOSEPH W. REYCROFT, of East Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Sash-Holders; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in sash-holders; and consists in the combination of a rotary handle or knob with cords guided over suitable pulleys, and attached to movable inclines or wedges that are adjustable in corresponding tapering recesses in the sash, the adjustable inclines or wedges being covered on their outer sides with an elastic band, the upper end of which is attached to the sash a little above the inclines, automatically retracting the wedge, as will be hereinafter more fully described.

On the accompanying drawing, Figure 1 represents a front elevation of a sash and frame. Fig. 2 represents a longitudinal section; and Fig. 3 represents a cross-section on the line A B, shown in Fig. 1.

Similar letters refer to similar parts wherever they occur on the drawings.

a a a' represent the sash, and *b b* represent a frame for a window, as usual. Through the horizontal part *a'* of the sash is made a longitudinal hole or perforation, *c*, in the middle of which is placed the rotary knob or handle *d*, to which is attached a pair of cords, strings, or wires, *e e'*, that are guided over the small pulleys *f f'*, located in the sash, as shown in Fig. 2. The extreme upper ends of the cords *e e'* are attached to each of the adjustable inclines or wedges *g g'*, that are made to slide up and down in correspondingly-inclined recesses *h h'*, made in the uprights *a a* of the sash, as the handle or knob *d* is rotated. To the outside of each of the adjustable inclines *g g'* is attached a flexible band or strap, *i i'*, the upper ends of which are secured to the uprights *a a* of the sash, as shown in Fig. 2.

The operation of this my improved sash-holder is as follows: When I wish to liberate the sash from its frame it is only necessary to turn the knob or handle *d* a little, say, to the right, by which the cords *e e'* are wound around the barrel of the said knob or handle, thereby causing the inclines *g g'* to be drawn downward in the recesses *h h'* in a direction parallel to the uprights *b b* of the frame, and at the same time to recede from the frame, so that the sash can be raised or lowered freely. In raising the sash it is even not necessary to rotate the handle *d*, as the wedges *g g'* will have a tendency to move downward and toward the middle of the sash as soon as the latter is forced upward. As soon as the operator lets go the hold of the handle *d*, the elastic bands or straps *i i'* cause the inclines *g g'* to be automatically forced upward and against the frame *b b*, by which the sash will be retained in any desired position.

It will be seen that I dispense entirely with toothed bars and pawls, and that the sash is retained in the desired position by the friction between the frame and wedges, and the interposing elastic medium.

I do not claim, broadly, a central knob or handle, nor wedges movable in inclined recesses; but

What I claim, and wish to secure by Letters Patent, is—

In combination with the sash *a a a'* and its frame *b b*, the rotary knob or handle *d*, cords *e e'*, pulleys *f f'*, inclines *g g'*, recesses *h h'*, and elastic retracting-bands *i i'*, substantially as and for the purpose herein set forth and described.

In testimony that I claim the foregoing as my own invention I have affixed my signature in presence of two witnesses.

JOSEPH W. REYCROFT.

Witnesses:

ALBAN ANDRÉN,

JOHN R. HEARD.