

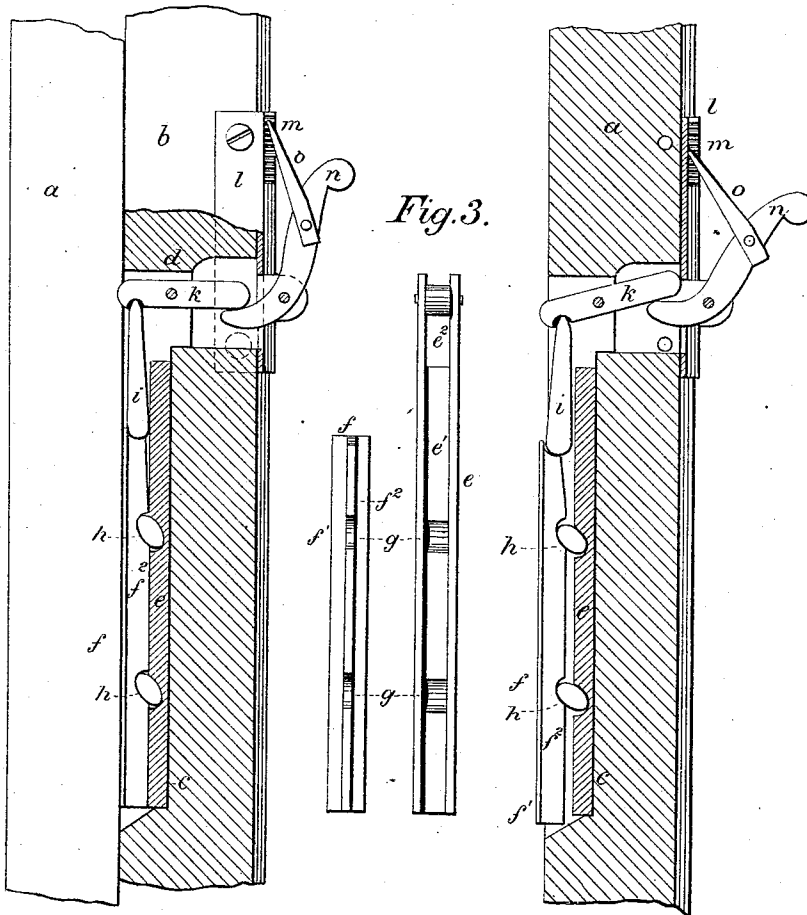
H. C. PERRY.
Sash-Holder.

No. 159,212.

Patented Jan. 26, 1875.

Fig.1.

Fig.2.



Attest:
L. C. Dobbs
J. H. Holderby.

Inventor:
H. C. Perry
per H. S. Atkey
attys

UNITED STATES PATENT OFFICE.

HENRY C. PERRY, OF WILKESBARRE, PENNSYLVANIA.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **159,212**, dated January 26, 1875; application filed December 3, 1874.

To all whom it may concern:

Be it known that I, HENRY C. PERRY, of the city of Wilkesbarre, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Mode of Securing, Holding, and Locking Window-Sashes; and I declare the following to be a full and exact description of the same, reference being made to the drawings as a part of this specification.

My invention relates to improvements in sash-holders. It consists in a vertical presser-bar having a central rib or tongue, the latter extending into a groove cut or formed by a metallic box or case fixed in a vertical mortise in the side bar of the sash, together with a pitman and series of cams connecting with, and for the purpose of forcing and carrying, the presser-bar vertically against the window-frame, and suitable connecting-levers with pawl and ratchet for operating and locking the device.

In the drawings, Figures 1 and 2 are vertical sectional views of a window-sash with my device attached, and Fig. 3 is a view of the metallic box or case and the presser-bar.

a is the window-frame. *b* is a portion of the side bar of a window-sash. *c* is a vertical mortise cut in the edge of the bar *b*, next frame *a*. *d* is a cross or horizontal mortise cut through the bar *b*, and connects with the upper end of the mortise *c*. *e* is the box or case, made to exactly fit the mortise *c*, and so as to provide the groove or channel *e'*. The bottom or rear plate of the box is made shorter than the side plates, leaving open space, *e''*, the width of the cross-mortise *d*, and the side plates are widened, and extend into said mortise *d*, to afford facilities for pivoting the lever hereinafter described. *f* is the presser-bar, composed of the friction or locking plate *f'* and the rib or tongue *f''*. The tongue *f''* fits into the channel *e'*, and prevents the presser-bar from wobbling, and keeps the plate *f'* at all times parallel with the side of the frame *a* in the operation of locking the sash. *g* are a series of oval recesses, formed one half in the bottom or rear plate of the box *e*, and the other half in the tongue *f''*, and are constructed so as to have a slight inclination toward the frame *a*. *h* are a series of cams placed in the recesses *g*. They fit loosely, and in the operation of the

device turn outward, and carry the bar *f* in a vertical line against the frame *a*. *i* is a pitman placed in the groove or channel *c*. It rests on the top of the presser-bar *f*, and extends nearly to the top of the cross-mortise *d*. *k* is a lever, pivoted near its center to the box *e*. One end rests on the top of the pitman *i*. The other end extends to and rests on the end of the operating-lever, hereinafter described. Its length is slightly less than the width of the sash-bar *b*. *l* is a plate, bent over the corner of the sash, and covering the end of the mortise *d*. On its upper portion is constructed the ratchet *m*. *n* is a bent lever, by which the device is operated. It is pivoted to the plate *l*, and extends under the outer end of the pivoted lever *k*. *o* is a pawl attached to the lever *n*. It catches in the ratchet *m*.

To operate the device the outer end of the lever *n* is pressed down. The inner end acts on the pivoted lever *k*, and this latter on the pitman *i*, which forces downward the presser-bar *f*. The presser-bar acting on the cams *h*, the latter turn outward or toward the frame *a*, and carry the former in a vertical line against the frame.

By increased pressure on the lever *n* the presser-bar may be wedged to any degree of tightness between the cams and frame.

The pawl *o*, engaging in the ratchet *m*, will hold the device locked.

By releasing the pawl, and removing the pressure from the lever *n*, the weight of the sash will force the bar *f* against the box *e* and unlock the sash.

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

1. The combination of the lever *n* with the presser-bar *f* by means of the pivoted lever *k* and pitman *i*, substantially as and for the purpose shown.

2. The sash-holder consisting of the presser-bar *f*, cams *h*, pitman *i*, levers *k* and *n*, pawl *o*, and ratchet *m*, when arranged to operate substantially as and for the purpose specified.

HENRY C. PERRY.

Witnesses:

J. R. PERRY,
C. B. SULTAN.