

UNITED STATES PATENT OFFICE.

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SASH HOLDER AND LOCK.

939,709.

Specification of Letters Patent.

Patented Nov. 9, 1909.

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To all whom it may concern:

Be it known that I, THEODORE KEPHART, a citizen of the United States, and a resident of Sinnamahoning, in the county of Cameron and State of Pennsylvania, have invented a new and Improved Sash Holder and Lock, of which the following is a full, clear, and exact description.

The invention relates to windows and its object is to provide a new and improved sash holder and lock, arranged to hold the upper and lower sashes in an open position or to securely lock the sashes in place when closed.

For the purpose mentioned, use is made of upper and lower runners fixed on a window frame, and spring lever devices held on the sashes and adapted to engage the said runners, to hold the sashes open by frictional contact, the said spring lever devices and runners having interlocking means for locking the sashes in a closed position.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of a window provided with the improvement and showing the upper and lower sashes closed; Fig. 2 is a transverse section of the same on the line 2—2 of Fig. 1; Fig. 3 is a similar view of the same on the line 3—3 of Fig. 1; Fig. 4 is an enlarged cross section of the same on the line 4—4 of Fig. 1; and Fig. 5 is a side elevation of the lower runner.

The lower and upper sashes A and B are mounted to slide up and down in the usual manner on a window casing C, and on the lower cross bar of the lower sash A is pivoted a hand lever D pivotally connected with one end of a link E, mounted to slide in a bearing F attached to the lower sash A, and the outer or free end of the link E is provided with a vertically-disposed spring arm E', adapted to engage a vertically disposed runner G, provided with pointed angular terminals G' adapted to be driven into the stop bead C' of the window casing C, to hold the runner G fixed on the window casing. The lower end of the runner G is provided with a shoulder G² in register with the upper end of the arm E' at the time the lower sash A is closed, so as to lock the sash A in a closed position at the time the lever D is swung downward, as indicated

in Fig. 1. Now when it is desired to raise the lower sash A, the operator swings the hand lever D upward, thus moving the link E to the left and the arm E' out of engagement with the shoulder G², to unlock the sash A and allow the operator to raise the sash by having hold of the lever D. When the sash has been raised to the desired height, the operator swings the lever D downward, so as to move the link E to the right and thus press the spring arm E' in firm contact with the runner G, and owing to the flexibility of the arm it will engage the runner with sufficient force to hold the sash A in a raised position. When the lever D is swung into the position shown in Fig. 1, the end of the link E connected with the lever is below the pivot of the lever so that the lever is locked in this position and the spring arm E' of the link E held in engagement with the runner. The runner G extends sufficiently high on the casing C to permit the arm E' to engage the runner at any point to which the sash A may be raised by the operator.

On the upper cross bar of the upper sash B is pivoted at H' a spring lever H having an arm H² extending from the pivot H' outwardly to the left side of the window casing C, as plainly indicated in Fig. 1, the said arm H² being guided in a guideway I in the form of a staple or the like, attached to the upper sash B. From the arm H² extends transversely and forwardly an arm H³ adapted to engage a runner J secured to the stop bead C² on the left side of the window casing C. The forward end of the arm H³ terminates in the downwardly-extending member H⁴ of the lever H, and this member H⁴ is provided with an offset or a shoulder H⁵, adapted to engage the lower angular terminal J' of the runner J and above the off-set or shoulder H⁵ the member H⁴ is provided with a projection H⁶ adapted to pass under the runner J for a purpose hereinafter described. It is understood that the angular terminals J' and J² of the runner J are driven into the window casing C, but the runner J is somewhat spaced from the stop bead C², to allow of engaging the offset H⁵ with the angular terminal J', as indicated in Figs. 1 and 2. When the upper sash B is in a raised or closed position, the offset H⁵ engages the terminal J' of the runner J, to lock the upper sash B against downward movement. When it is desired to lower the

upper sash B the operator swings the member H⁴ of the lever H forwardly, to disengage the offset H⁵ from the runner J, and then the operator swings the lever H to the right into the position shown in dotted lines in Fig. 1, so that the sash B can be moved downward, by the operator having hold of the lower end of the lever H. When the sash B has been lowered the desired distance then the operator swings the lever H to the left into engagement with the runner and then the lever is forced inward toward the sash to cause the projection H⁶ to pass under the runner, when the sash will be held in the position to which it has been moved by the friction of the said lever with the runner.

From the foregoing it will be seen that the spring lever devices for both the lower and upper sashes A and B serve to lock the sashes in a closed position, and to hold the sashes in open position by frictional contact of the arms E⁷ and H³ engaging the runners G and J, respectively.

The device shown and described is very simple and durable in construction, and can be readily applied to sashes and window frames as now constructed.

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

1. A sash holder and lock, comprising a vertically disposed runner for attachment to the window casing, a spring lever device on

the sash and adapted to be moved toward and from the runner, whereby it may be brought into engagement with said runner to hold the sash raised by frictional contact, the said spring lever device and the said runner having interlocking means in register with each other at the time the sash is closed to lock the sash in the closed position.

2. A sash holder and lock, comprising a vertically disposed runner provided with a shoulder and secured to the window casing, a lever fulcrumed on the window sash, a bearing on the window sash, and a link connected at one end with the said lever and provided at the other end with an arm for engagement with the said runner and the shoulder thereof.

3. A sash holder and lock, comprising a vertically disposed runner having a shoulder and secured to a window casing, a lever fulcrumed on the window sash, a bearing on the sash, and a link connected at one end with the lever and provided at its free end with an upwardly projecting spring arm for engagement with the runner.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THEODORE KEPHART.

Witnesses:

MERIT BLODGET,
PHILLIP MEAD.