(No Model.)

H. B. HAYES.

SASH HOLDER.

No. 477,801. Patented June 28, 1892.

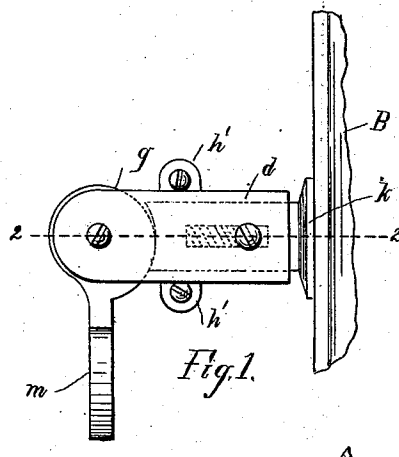

Fig. 1.

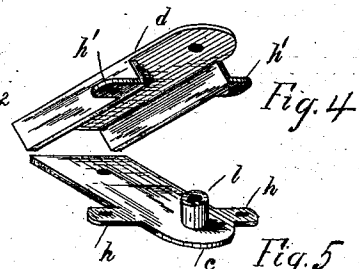

Fig. 4

Fig. 5

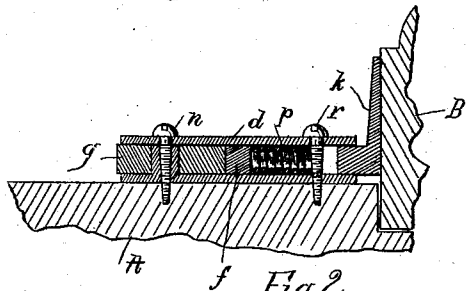

Fig. 2.

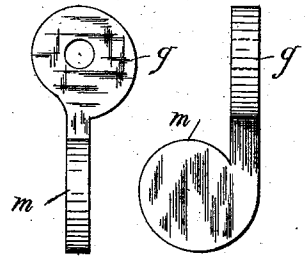

Fig. 6 Fig. 7.

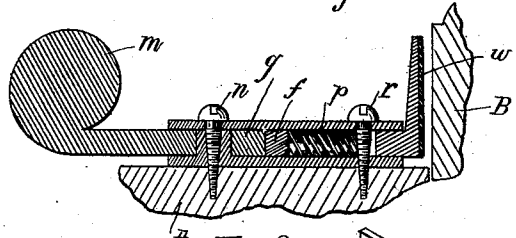

Fig. 3.

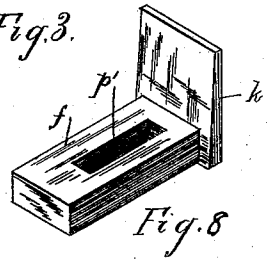

Fig. 8

WITNESSES.

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Robert Wallace.

INVENTOR.

Henry B. Hayes,

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UNITED STATES PATENT OFFICE.

HENRY B. HAYES, OF WOBURN, MASSACHUSETTS.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 477,801, dated June 28, 1892.

Application filed December 26, 1891. Serial No. 416,158. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. HAYES, a citizen of the United States, residing at Woburn, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Window-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has for its object to produce a window-fastener by means of which a window-sash may be secured firmly at any point in the frame, which shall be durable and easily operated, and by means of which, also, the sash may be pressed and held against the frame, so as to more completely exclude cold air, dust, and the like.

My invention consists in the novel construction and combination of parts constituting an improved and serviceable window-fastening, all as hereinafter set forth, and as is more particularly pointed out in the claims which are appended hereto and made a part hereof.

I have shown my invention in the best form now known to me in the accompanying drawings, to which reference will be made in the following description, and in which—

Figure 1 is a front elevation of my device applied to a window. Fig. 2 is a section on line 2 2, Fig. 1. Fig. 3 is a similar section, but showing the securing-bolt withdrawn from contact with the sash and also showing the free end of the bolt which comes in contact with the sash as provided with a facing of rubber or similar suitable material. Figs. 4 and 5 are perspectives of the casing and base-piece. Figs. 6 and 7 are respectively a plan and side view of the cam and its thumb-piece. Fig. 8 is a perspective of the bolt.

A represents a window frame or casing, and B a portion of a window-sash.

My device, as shown, consists chiefly of four parts—a bed-plate or base *c*, a case or cover *d*, a sliding bar or bolt *f*, and a cam *g*, provided with a suitable projection by means of which the cam may be operated by the thumb and finger. The base *c* is preferably of the shape shown and is provided with two lugs or projections *h* to receive screws by means of which the device may be firmly secured in place. The cover or case *d* is in form a counterpart of the base *c*, it being also provided with lugs *h'*, which overlie those on the bed-plate *c*, so that the retaining-screws will pass through the lugs on both the cover *d* and plate *c*. The sides of the cover extend downwardly from the top portion thereof, as shown, Fig. 4, for the reception of the sliding bar or bolt *f*, forming a cavity within which said bolt or bar may slide. The end of the bolt *f* which is designed to come in contact with the window-sash is enlarged or provided with a shoe *k*, so that it may have a broad and substantial bearing against the sash. The rear end of the bolt *f* is in contact with the cam or eccentric *g*, which for greater strength is pivoted on a post *l*, which is preferably cast integral with the base *c*. The cam is provided with a projection *m*, by means of which it may be readily operated by the thumb and finger. A hole for the reception of a screw *n* is made through the cover *d* and post *l*. This screw *n* may also pass into the window-frame and may thus serve as an additional means for securing the device rigidly in place. As it is desirable that the sliding bar or bolt *f* may as soon as the device is freed clear the window-sash, in order that when the sash is moved the foot of the bolt will not bear against the sash and scratch or deface it, I provide a spring *p*, which is laid within a slot *p'* lengthwise of said bolt *f*, said spring bearing at its rear end against the end of the said slot and at its forward end against the screw *r*, which passes through the cover *d* and through one end of the slot in the bolt *f*. When the cam is turned to force the bolt outwardly against the window-sash, the spring *p* is compressed, and as soon as the cam is turned in the opposite direction to free the bolt the spring operates to retract the sliding bolt *f*, as will be clear.

To render the grip of the bolt *f* on the sash more secure, as also to lessen the danger of defacing the sash, the contact-face of the foot of the bolt may, if desired, be covered with a layer of rubber or other suitable material, as shown at *w*, Fig. 3.

By making the thumb-piece *m* of the cam of good size the device may be easily operated and the bolt forced with great pressure against the sash, firmly securing it in any po-

sition, and if the window be closed forcing the sash against the casing with such pressure as to effectively exclude cold air and dust.

The employment of a cam for actuating and holding the sliding bolt insures against the freeing of the fasteners by continual jarring such as fasteners are subjected to in railway-cars.

What I claim is—

1. The window-fastener composed of the base *c*, cover *d*, sliding bolt *f*, cam *g*, operating to force said bolt positively outward into engagement with a window-sash, and spring *p* for retracting the bolt, substantially as described.

2. The window-fastener composed of the base *c*, formed with the post *l* and the lugs *h h*, the cover *d*, formed with lugs *h' h'*, the sliding bolt *f*, the cam *g*, pivoted on post *l* and operating to positively press the bolt outward into engagement with a window-sash, the spring *p* for retracting the bolt, and the screws *n* and *r*, substantially as described.

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

HENRY B. HAYES.

Witnesses:
WM. A. MACLEOD,
ROBT. WALLACE.