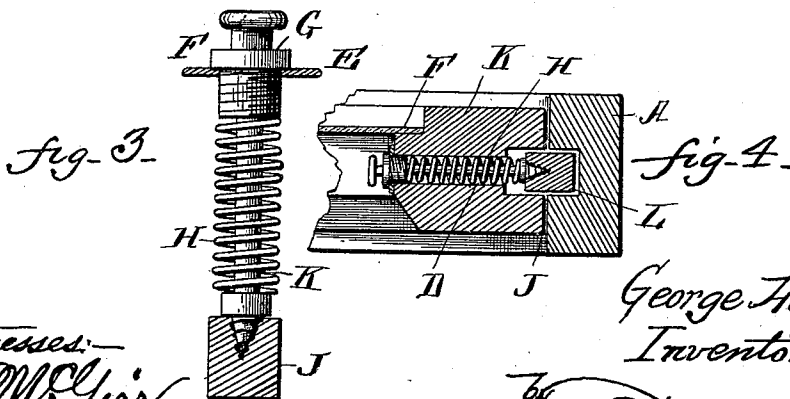
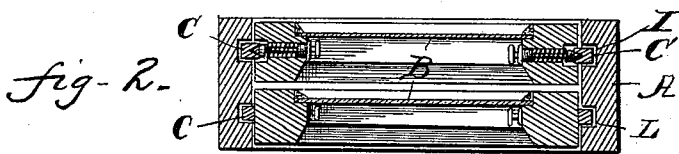
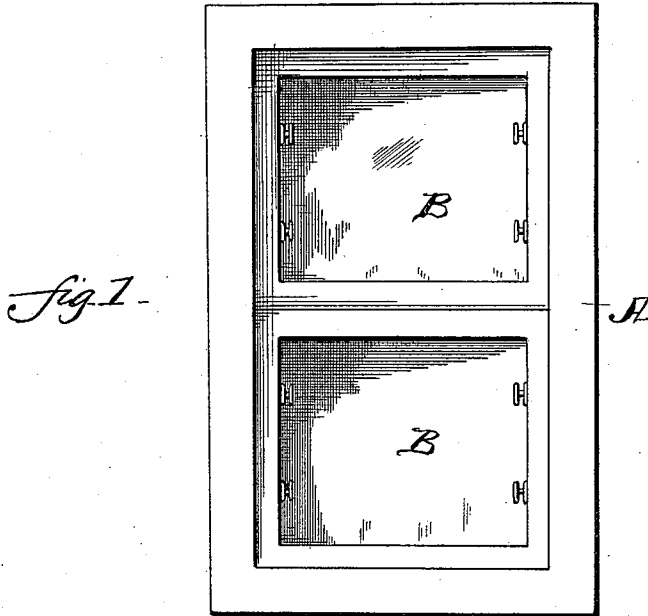


(No Model.)

G. HEFFNER.
SASH HOLDER.

No. 470,914.

Patented Mar. 15, 1892.



Witnesses:
J. B. M. Giv.
Mary E. Moore

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UNITED STATES PATENT OFFICE.

GEORGE HEFFNER, OF LIMA, OHIO.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 470,914, dated March 15, 1892.

Application filed July 27, 1891. Serial No. 400,864. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HEFFNER, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have
5 invented certain new and useful Improvements in Sash-Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
10 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
15 sash-holders; and the object of my invention is the provision of a simple, cheap, and durable device which will hold the sashes at any desired point, which will allow the sashes to be removed with ease, and which will not mar
20 or disfigure the sashes.

To attain these ends and such others as belong to a device of this character my invention consists in certain features of construction, combination, and arrangement of parts,
25 substantially as herein illustrated, described, and specifically defined by the claim.

In order that the construction, operation, and advantages of my improvements may be readily understood, I invite attention to the
30 accompanying drawings, in which—

Figure 1 represents an elevation of a window having my improved holders applied to the sashes. Fig. 2 represents a transverse sectional view through the holder, window-frame, and sash. Fig. 3 represents a detail
35 view of the parts of the holder detached. Fig. 4 represents an enlarged detail sectional view.

Referring by letter to the drawings, A designates the window casing or frame, having the usual sashes B to travel therein. The side rails of the sashes are provided with a groove or channel C, the purpose of which will presently appear.

45 I prefer to use four of my holders to each sash, and I provide the side rails with openings or passages D, extending transversely and to the channels C of the sashes, and to the inner faces of the sides of the sash I attach plates E, having threaded openings F in
50

line with the openings D. Screwed into the openings F are the guiding and adjusting sleeves or thimbles G, through which pass the bolts H, having the head or button at one end and at the other end threaded and connected to the holding-blocks J, which fit in
55 the channels C and by means of the coiled springs K are forced into the channels L of the casing, and by the springs forcing the blocks against the casing the sashes are re-
60 tained at any point.

The sashways may be employed on the window, if desired; but for convenience in removing the sashes and for cheapness I prefer not to use the guide-strips. The spring-actuated
65 holding-blocks resting normally in the grooves of the casing act as guides and retain the sashes in place. It will be seen that the spring-actuated blocks normally rest in the grooves or channels of the frame, and thus
70 serve as guides and retain the sashes in place; also, that by drawing the bolts outward the blocks are removed from contact with the casing and the sashes can be quickly removed; also, the adjusting-sleeves will operate to vary
75 the tension of the springs as desired and take up all wear on the holding-blocks; also, the blocks, while securely holding the sashes at any desired adjustment, will not interfere with
80 the traveling of the sashes when necessary and desirable, and, also, by reason of the simplicity, durability, cheapness, and convenience of the device the same is rendered practical and economical.

I claim—

85 The combination of the casing having grooves, the sashes having grooves and cylindrical transverse openings, the plates having the threaded openings, the adjustable sleeves fitting in said openings, the bolts passing
90 through said sleeves, the blocks connected to said bolts, and the springs surrounding the bolts and operating as described.

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

GEORGE HEFFNER.

Witnesses:

J. D. DOUGLASS,
A. WEIXELBAUER.