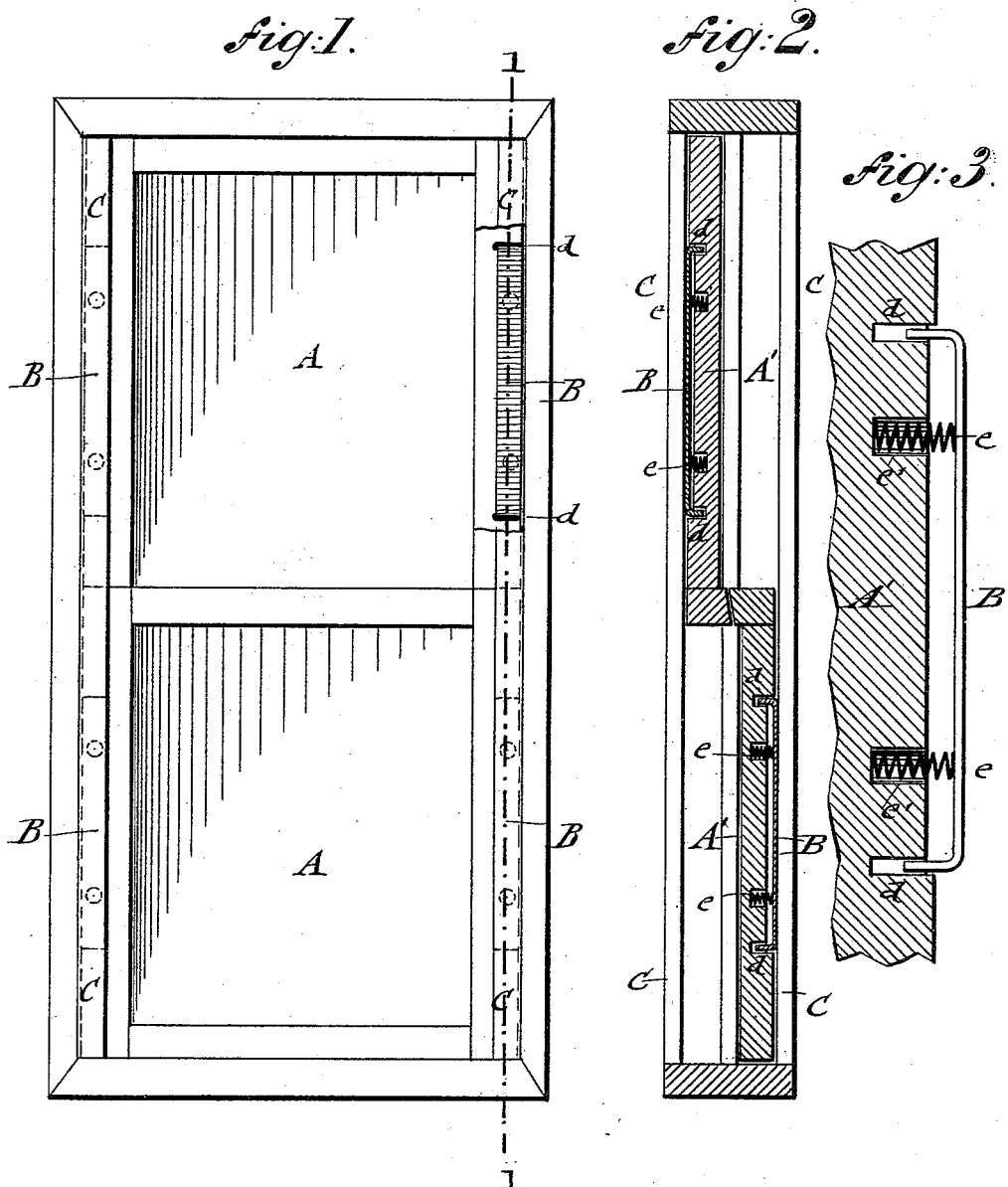


(No Model.)

A. WOLLENWEBER.
SASH HOLDER.

No. 420,324.

Patented Jan. 28, 1890.



WITNESSES:

A. Schehl.
W. Reimann

INVENTOR

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UNITED STATES PATENT OFFICE.

AUGUST WOLLENWEBER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF
TO ARTHUR B. FLACH, OF SAME PLACE.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 420,324, dated January 28, 1890.

Application filed August 20, 1889. Serial No. 321,349. (No model.)

To all whom it may concern:

Be it known that I, AUGUST WOLLENWEBER, of the city, county, and State of New York, a citizen of the United States, have
5 invented certain new and useful Improvements in Sash-Holders, of which the following is a specification.

This invention relates to an improved sash-holder by which the sash may be supported
10 at any desired height without requiring sash cords and weights, and which also serve to prevent the rattling of the sash, as the holder produces the tight closing of the sashes at their meeting-rails.

15 The invention consists of a sash-holder which is formed of a metallic strip the ends of which are bent at right angles and guided in transverse recesses of the sash-frame, said strip being interposed between the sash-frame
20 and the guide-strip of the same and pressed against the strip by spiral springs, which are inserted in the sockets of the sash-frame, the sash-frame being depressed between the guide-recesses for the length and thickness of
25 the strip, so that the same is flush with the surface of the sash-frame when fully pressed in against the tension of the springs.

In the accompanying drawings, Figure 1 represents a front elevation of a window,
30 showing my improved sash-holder applied to both sashes. Fig. 2 is a vertical transverse section on line 1 1, Fig. 1; and Fig. 3 is a vertical transverse section through the sash-frame, showing the sash-holder in side elevation on a larger scale.

35 Similar letters of reference indicate corresponding parts.

A in the drawings represents a window-sash, which is provided in both sides or stiles
40 of its sash-frame with sash-holding friction-strips B B, that are interposed between the face of the stiles and the guide-strips C C of the sashes. The sash-holding strips B are made of suitable metal, preferably of steel,
45 the ends being bent at right angles to the main portion of the same and guided in transverse recesses *d* of the sash-frame. The face of the sash-frame A' is recessed between the recesses *d d* for the length and width of the

sash-holding strips B, so that they are flush 50
with the surface of the sash-frame when inserted into the recesses *d*. The sash-holding strip B is forced in outward direction by means of spiral springs *e*, which are inserted into sockets *e'* of the sash-frame, and which bear 55
against the inner surface of the sash-holding strips B. The spiral springs *e* force the strip B into frictional contact with the inner surface of the guide-strip C, so that the sash is supported thereby at any desired height with- 60
out requiring sash cords, pulleys, and weights. The sash-holding strips B of the sashes also serve as anti-rattling devices, as they press the meeting-rails of the sashes tightly together, the strips B of the lower sash being 65
arranged at the inner side and those of the upper sash at the outer side of their respective frames, as shown clearly in Fig. 2.

In sashes of larger size, which are preferred to be balanced by sash cords and weights, the 70
spring-actuated strips B serve solely as anti-rattling devices and assist in keeping the sashes tightly closed at the meeting-rails.

In car-windows the sash-holding strips are applied to the ends of the stiles, so as to bind 75
on the window-casing, while in all other respects the construction of the sash-holder is exactly the same.

Having thus described my invention, I claim as new and desire to secure by Letters 80
Patent—

The combination of a sash-frame having transverse recesses, a face recess or depression connecting said recesses, and sockets inter- 85
mediately between said recesses with a sash-holding strip having bent ends guided in the transverse recesses and spiral springs inserted in the sockets and interposed between the sash-frame and strip, substantially as set 90
forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

AUG. WOLLENWEBER.

Witnesses:

PAUL GOEPEL,
W. REIMHERR.