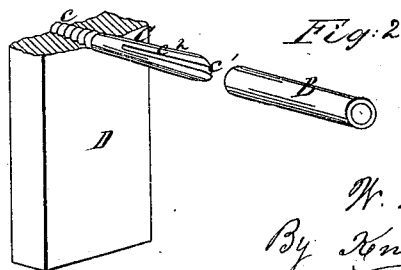
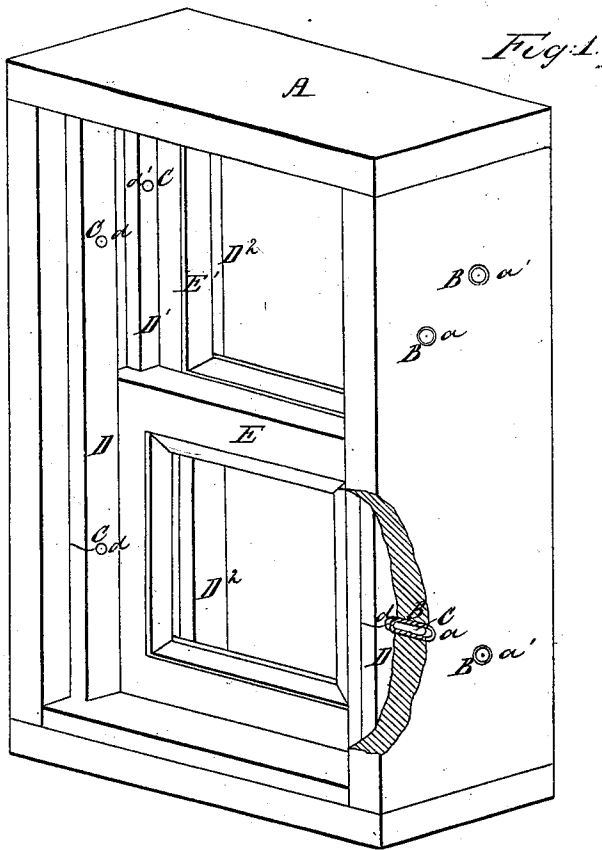


W. Ward,

Window Strip Attachment,

N^o. 82,903.

Patented Oct. 6, 1868.



Witnesses.
W. B. Denning
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Atty

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WINTHROP WARD, OF MYSTIC BRIDGE, CONNECTICUT.

Letters Patent No. 82,903, dated October 6, 1868.

IMPROVED WINDOW-STRIP ATTACHMENT.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WINTHROP WARD, of Mystic Bridge, in the county of New London, and State of Connecticut, have invented a new and useful Improvement in Devices for Attaching Window-Strips or Beads; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, which is made a part of this specification.

The object of my invention is to provide a simple and secure fastening, which shall readily admit of the strips or beads, which are attached by means of it, being removed and attached, for the purpose of withdrawing and inserting the sash, without the aid of tools.

My improved fastening consists of a spring-expanding stud or pin, attached to the strip, and engaging with a tubular socket inserted in the frame.

In the drawing—

Figure 1 is a perspective view of a window-frame provided with my improved fastenings, a portion of the frame and one of the fastenings being broken away, to more fully represent the mode of applying the device.

Figure 2 is a perspective view, on an enlarged scale, of the two parts of the fastening, in a separated position, a portion of a strip being shown in connection with one of the parts, to illustrate the manner of applying it thereto.

A represents the frame proper, which, for the reception of my invention, is provided, instead of the customary vertical grooves for the reception of the beads, with corresponding series of holes, *a a'*, of two or more each, as may be necessary, for the size and nature of the window in which used. In said holes are inserted, preferably by driving, tubular metallic sockets, B, of round or other curvilinear form in cross-section, which may be flush with the surface of the frame on each side, and which are intended for the reception of a spring-stud or pin, C, attached to the strips or beads D D', by which the sashes E E' are held in position.

The strips D D' are provided for the reception of the studs or pins C with suitable perforations *d d'*, matching with the ones, *a a'*, in the frame, and which receive the screw-threaded or otherwise suitably-provided shank *c* of said pins, as represented in fig. 2. By leaving the outer ends of the stud a little below the surface, and putting and painting over it, a perfectly smooth and even surface may be produced, the presence of any fastening not being discernible.

The outer strip, D², is preferably secured in the ordinary manner, as its temporary removal is generally never required. It may, however, be also provided with the fastening, in a similar manner to the other strips, when desired. The strips on one side of the window, and the top and bottom, may also be left unprovided, or be provided therewith, as preferred.

The bit or head of the pin C is provided with a rounded or tapering entering-point, *c*², and is slitted or divided, as represented at *c*², and expanded to a sufficient extent to cause it, when inserted in the socket B, to hold with sufficient tenacity to prevent the accidental displacement of the strip.

The separate parts of my invention may be made of brass, iron, or other suitable metal, in any of the usual modes.

The socket B may, when round, in cross-section, if preferred, be provided with an external screw-thread, to render its attachment in the frame more secure. I also propose slitting the front end thereof, and compressing it, so as to form a contracted entrance, more or less elastic, for the spring-pin; or providing it with said contracted end in any other suitable manner.

My improved fastening may be readily applied to a frame, by any person, without the aid of professional assistance, is cheap and durable, and not at all liable to become accidentally detached from the parts to which applied, or to otherwise get out of order.

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

The provision, on a window-strip, of spring-pins, adapted to slip into tubular sockets in the window-frame, for the purpose of attaching said strip, substantially as described and represented.

To the above specification of my invention I have signed my hand, this twenty-seventh day of July, 1868.

WINTHROP WARD.

Witnesses:

ASA A. AVERY,
LEMUEL CLIFT.