No. 632,922.

Patented Sept. 12, 1899.

J. HORSFIELD.

WEATHER STRIP.

(Application filed Dec. 10, 1898.)

(No Model.)

Fig. 1

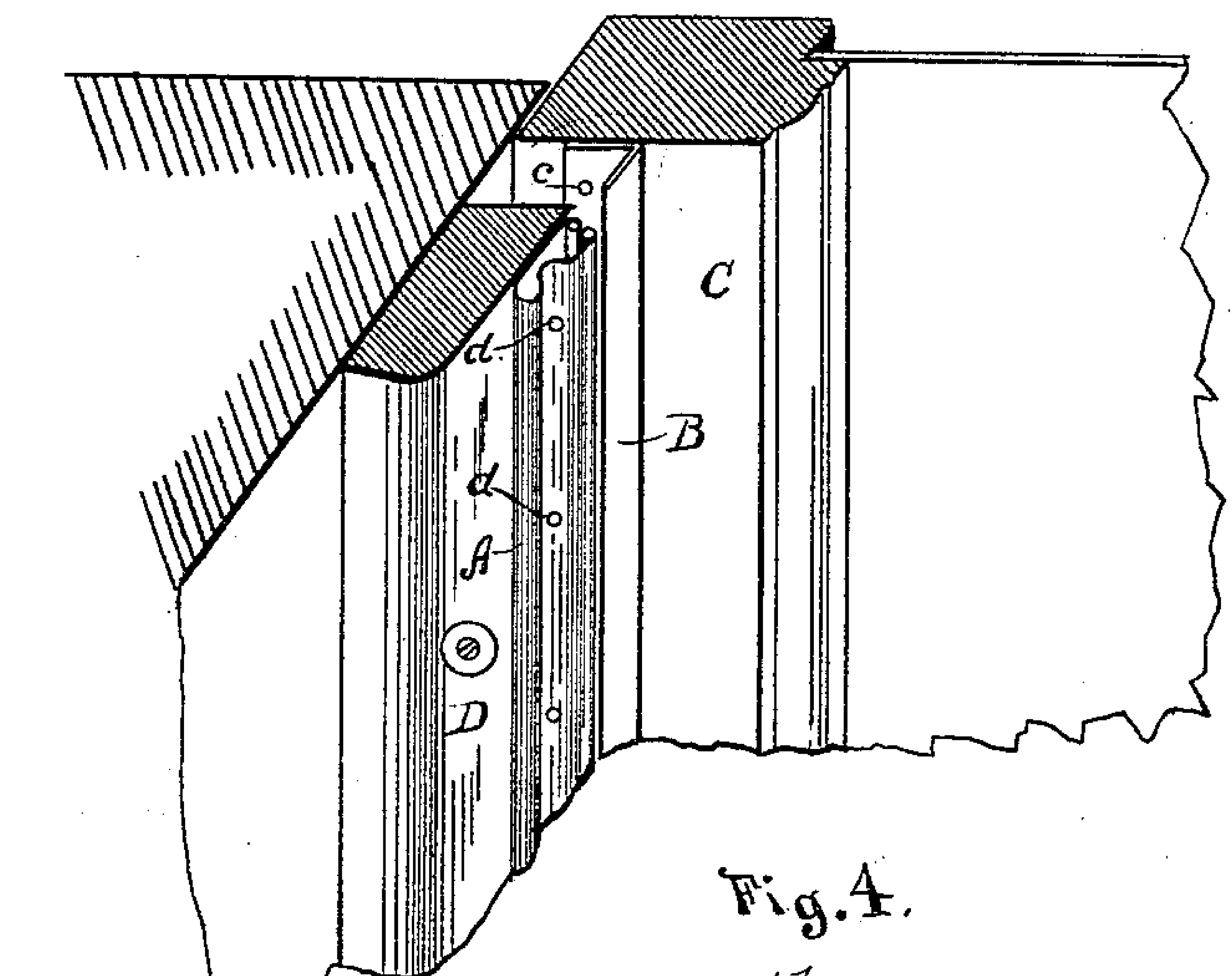


Fig. 5.

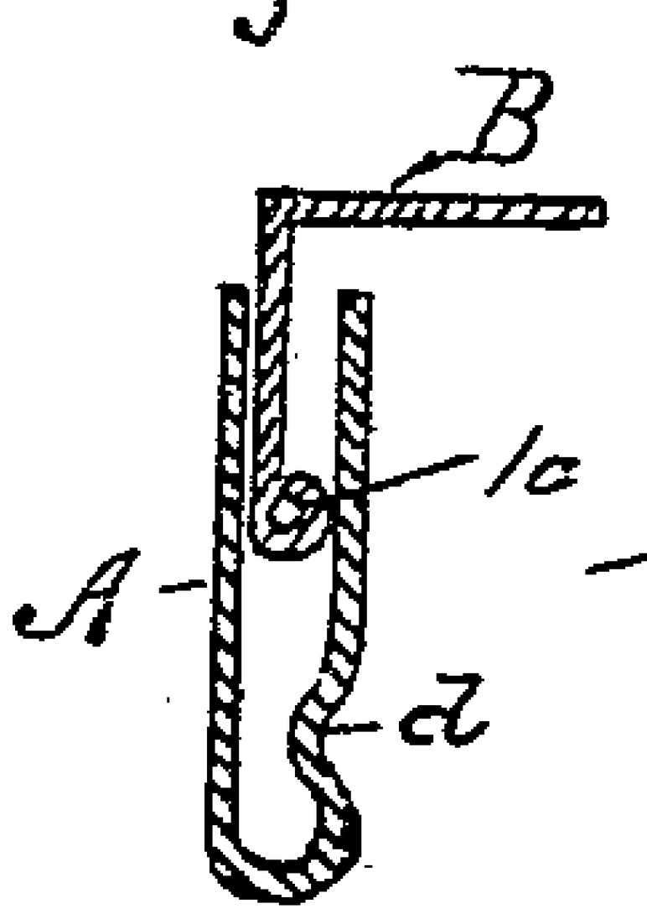


Fig. 4.

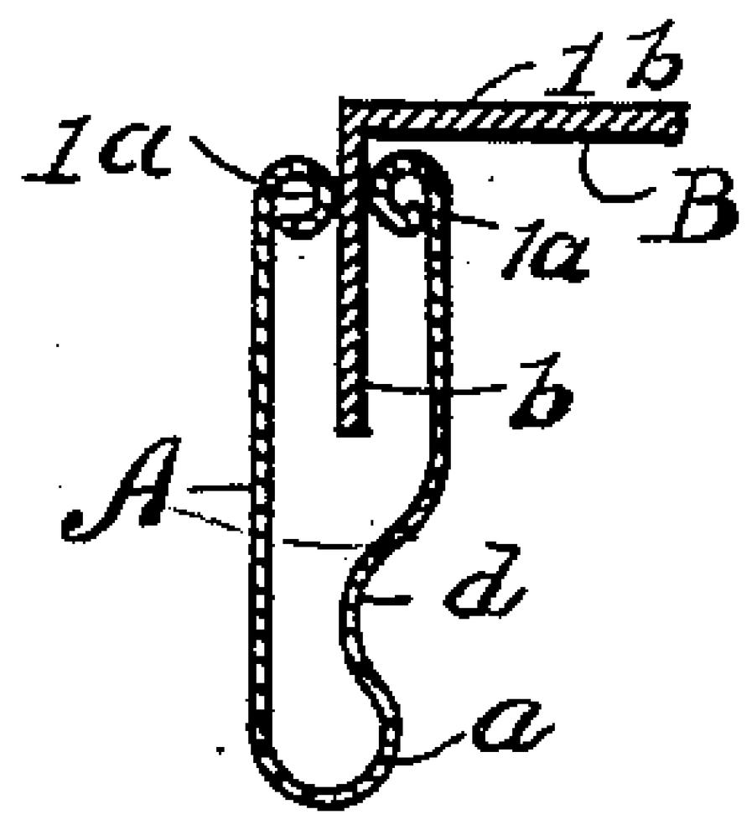


Fig. 2

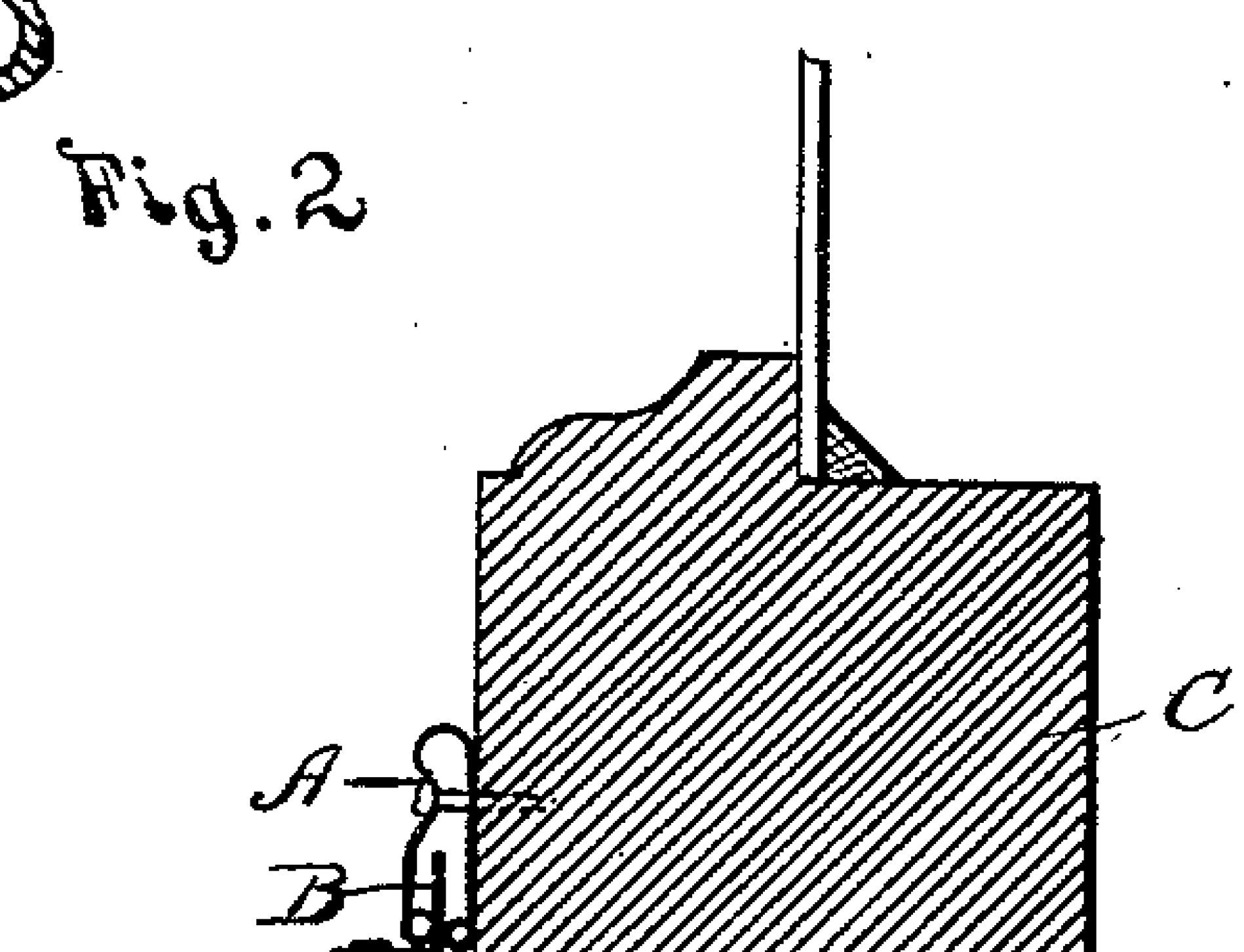
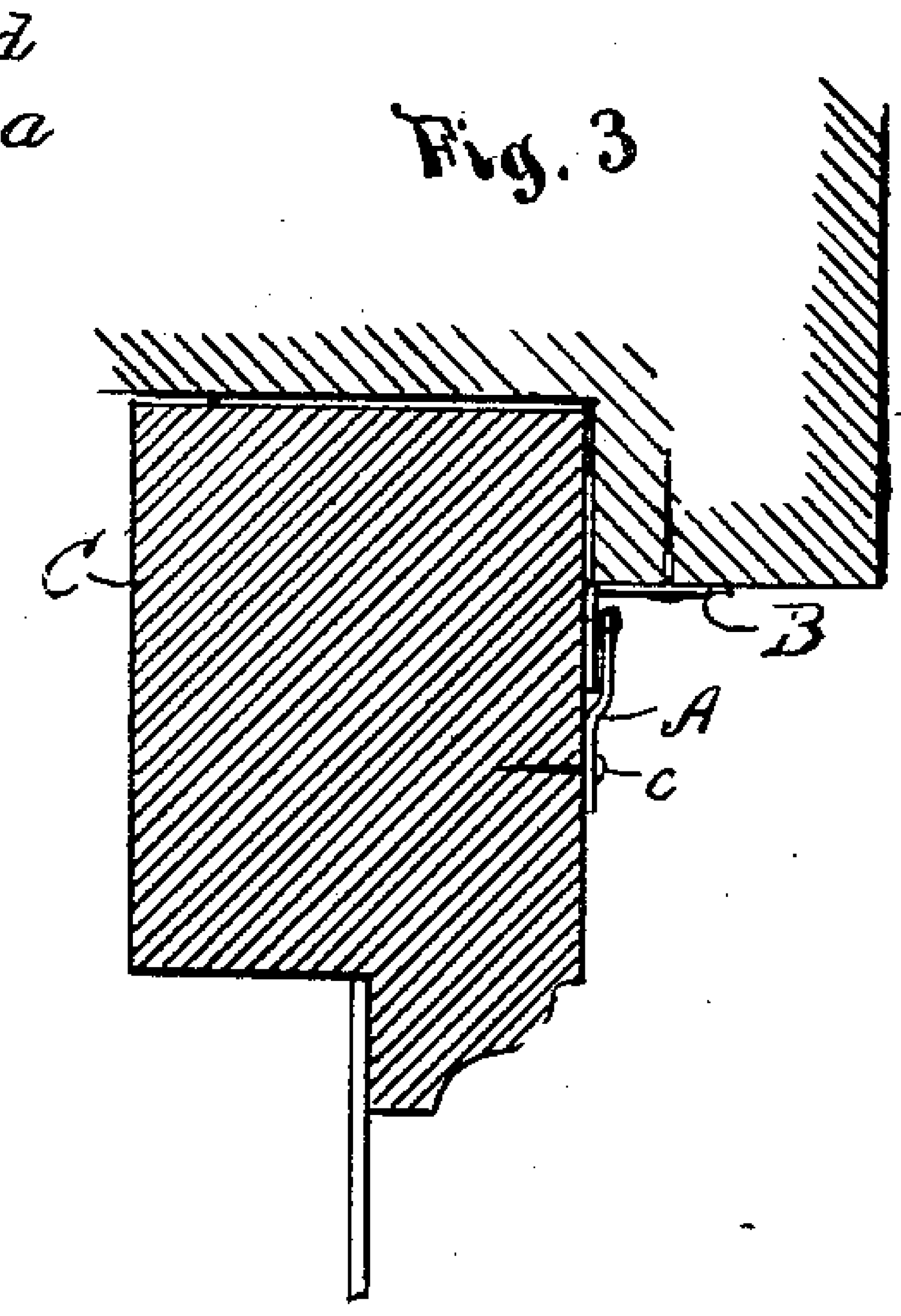


Fig. 3



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UNITED STATES PATENT OFFICE.

JOHN HORSFIELD, OF CHICAGO, ILLINOIS.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 632,922, dated September 12, 1899.

Application filed December 10, 1898. Serial No. 698,812. (No model.)

To all whom it may concern:

Be it known that I, JOHN HORSFIELD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have made certain new and useful Improvements in Weather-Strips, of which the following is a specification.

My invention relates to improvements in weather-strips for windows.

The object of my improvements is to provide a weather-strip which, while serving as an effective excluder of wind, dust, snow, and the like, may be cheaply made by machinery, quickly applied, and which will be more durable than the weather-strips made from combined strips of wood and rubber, or felt and metal and rubber.

It is also my object to provide a device of this character which may be made ornamental and when applied to a window frame or sash will give a neat finish to same.

The manner in which I attain the objects set forth is illustrated in the accompanying drawings, which form a part of this application, in which—

Figure 1 is a perspective view of a section of a window sash and frame, showing my invention applied thereto. Fig. 2 is a sectional view of the bottom rail of a window-sash and a window-sill, showing in section my improved weather-strip applied thereto. Fig. 3 is a sectional view of the top rail of an upper sash and frame, showing in section my strip applied thereto. Fig. 4 is an enlarged detail showing an end view of the two sections forming my invention. Fig. 5 is an end view of a modified form.

Referring to the drawings it will be seen that my invention is composed of two strips A and B, both of which are preferably made from thin flat metal capable of being bent in the forms shown. The strip B is simply a section of flat metal of suitable width bent longitudinally along a central line to form two members *b* and 1^b at right angles to each other. Nails driven through one of the members secures the strip to the window sash or frame, while the other member stands out as a tongue to be engaged by the opposing lips or beads of the strip A, as will be described. The strip A is formed from a section of flat metal and bent along its edges to form the beads 1^a 1^a and bent outwardly longitudinally along a central line, as at *a*, and inwardly, as at *d*, the latter bend being insufficient to bring the opposing members of the strip together unless the nails which are used to attach the strip to the window sash or frame are driven clear home. This construction gives more or less spring or resiliency to the members of the strip, the effect of which is to press closely together the beads 1^a 1^a, which embrace the extended member of the strip B, and thus form a tight closure, the degree of tightness being controlled by the extent to which the attaching-nails are driven through the strip B along its inwardly-bent portion *d*. It will be noted that the only frictional contact between the strips A and B will be along the beads 1^a 1^a or on the bead 1^c in the modified form.

For some purposes I may form the bead on the projecting edge of the strip B as shown in Fig. 5, and may use the strips in the form shown in Fig. 3, the function of the bead edge being the same in the several modifications shown—that is, by contacting with the flat face of the companion strip to form a tight joint, so as to exclude wind, dust, &c. In the modified form of strip A in Fig. 3 I do not bend the metal upon itself, but bend it outwardly to permit the entrance of the extending member of the strip B between the sash and the outwardly-bent portion of the strip A, and on the edge of the strip B form a bead, as 1^c, as shown in Fig. 5.

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

1. In a device for excluding wind, snow, dust, &c., from windows, a metallic strip bent longitudinally at right angles to form two members, one of which is to be secured to the window sash or frame, and a second metallic strip bent upon itself and having beads formed along its opposing edges to engage the extended member of the companion strip, substantially as described.

2. In a device for excluding wind, snow, dust, &c., a metallic strip bent longitudinally at right angles to form two members one of which is adapted to be secured to a window sash or frame, and a second metallic strip bent upon itself, with beads formed along its op-

posing edges, having one side inwardly bent to form a groove, substantially in the manner and for the purpose described.

3. In a device of the character described, a metallic strip having beaded edges and bent upon itself to form two members one of which is curved in cross-section, and a second strip adapted to be engaged by the two members described, substantially as set forth.

4. In a device of the character described, a metallic strip bent longitudinally and having a beaded edge, and a second strip bent upon itself to form two members adapted to embrace the first-named strip, and one of said members being curved in cross-section, substantially as set forth.

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

JOHN HORSFIELD.

Witnesses:
F. BENJAMIN,
F. A. BAUX.