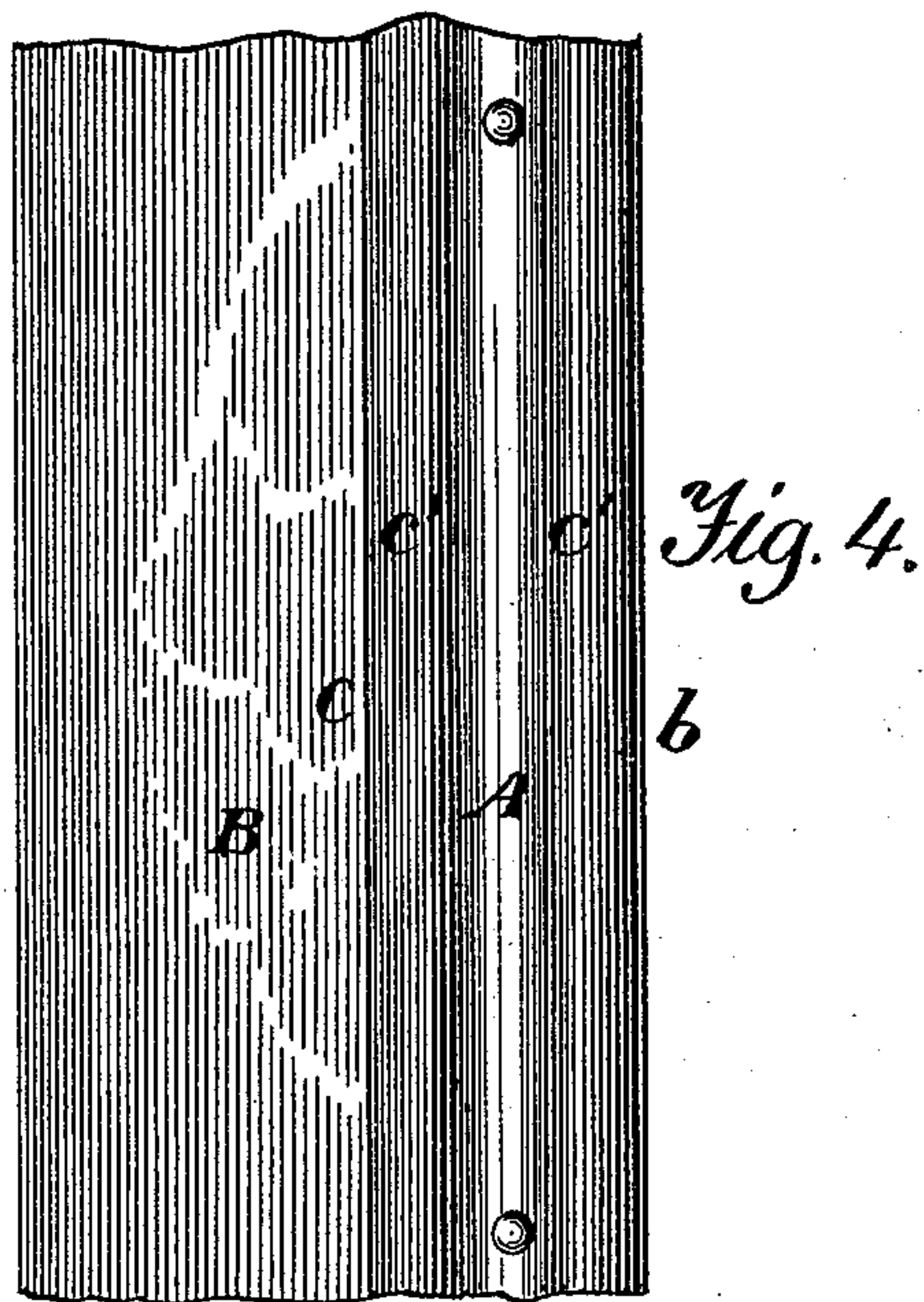
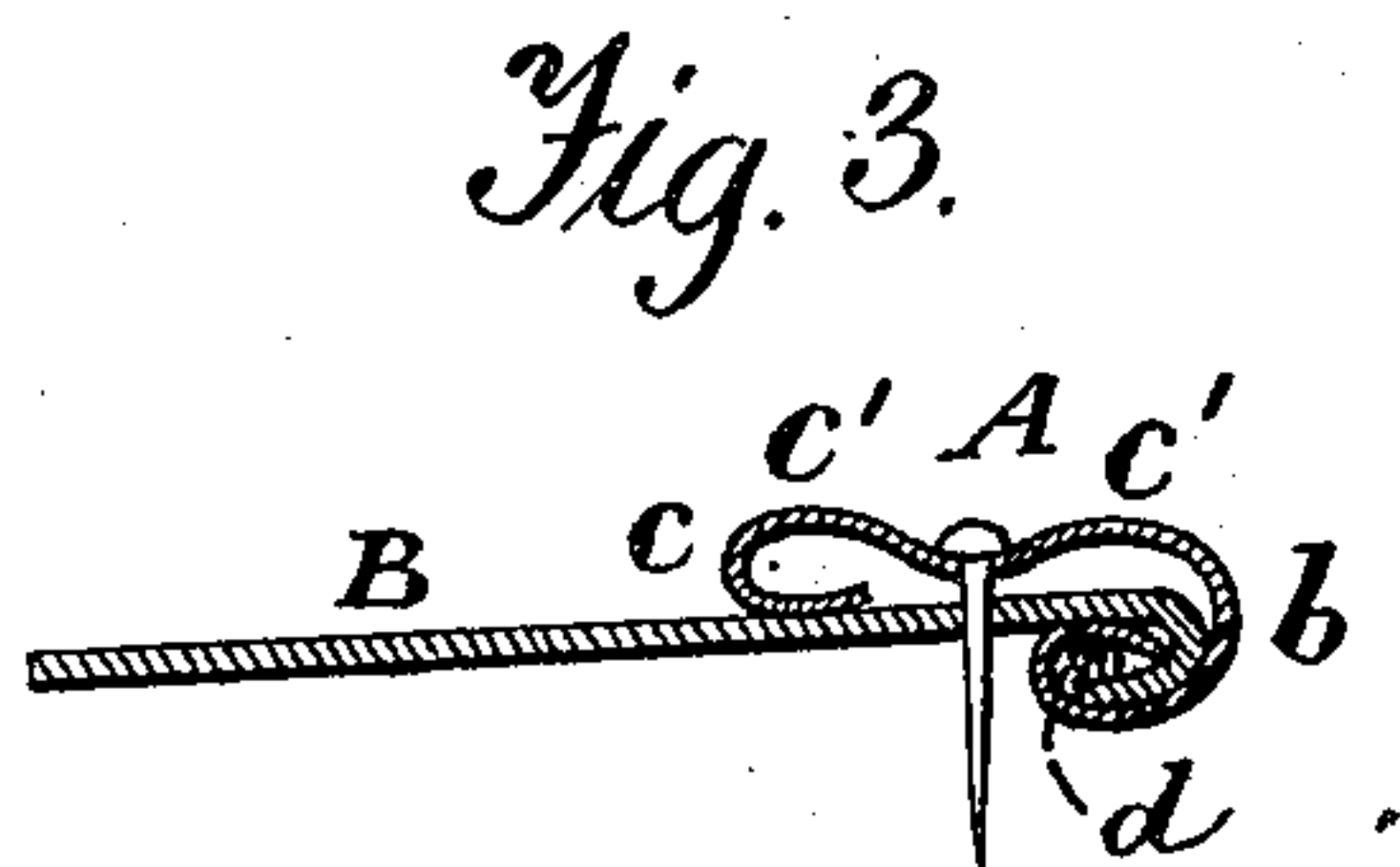
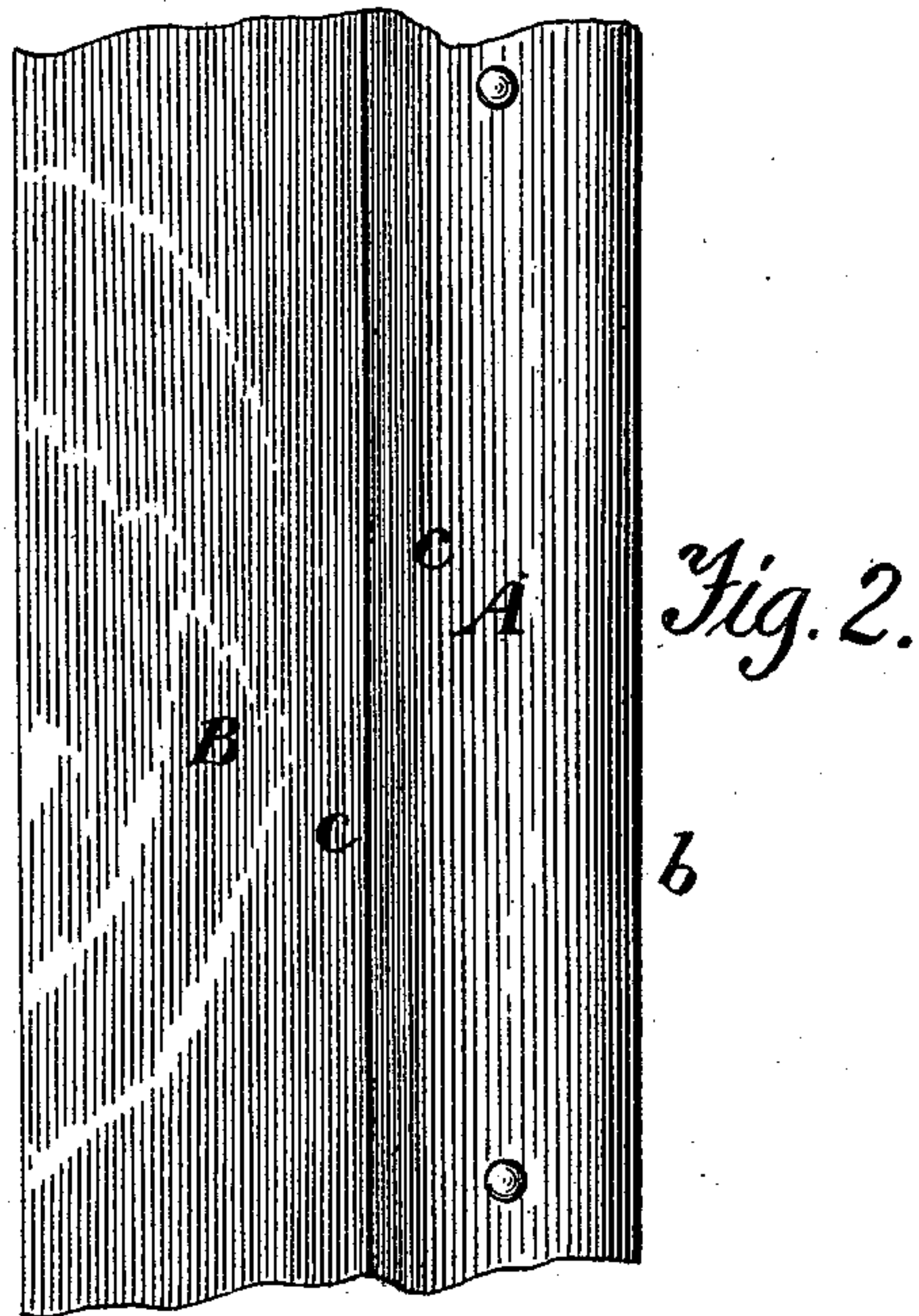
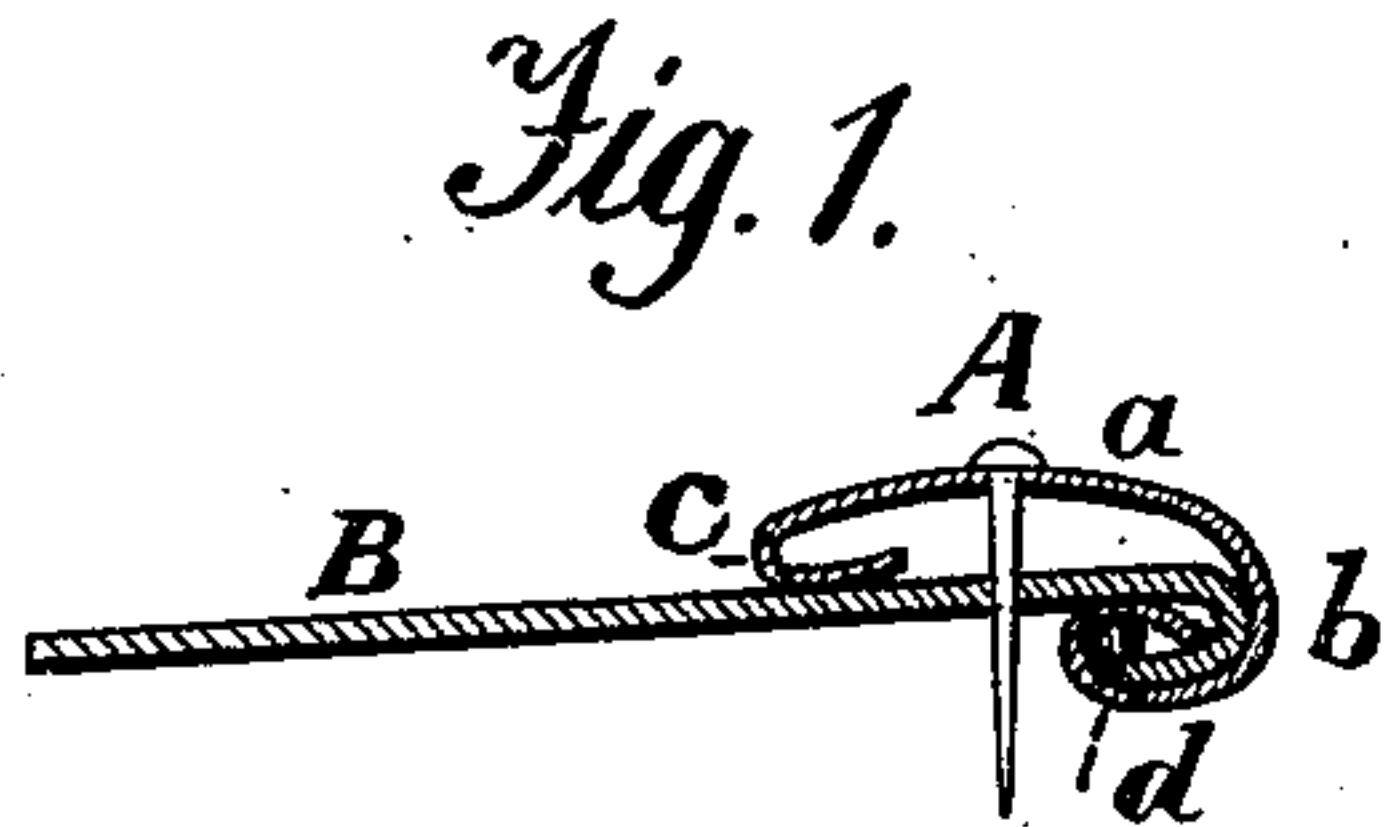


(No Model.)

J. H. HUMMEL.
WEATHER STRIP.

No. 426,937.

Patented Apr. 29, 1890.



Witnesses:
A. Ruppert
E. Luse

Inventor
James H. Hummel,
by L. H. W. J. Howard

UNITED STATES PATENT OFFICE.

JAMES H. HUMMEL, OF MOUNT VERNON, NEW YORK.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 426,937, dated April 29, 1890.

Application filed June 10, 1889. Serial No. 313,673. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. HUMMEL, of Mount Vernon, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to that class of weather-strips in which a flat strip of rubber or other flexible material is attached to a metallic base.

In the accompanying drawings, Figure 1 is an end view of my improved weather-strip. Fig. 2 is a top view of Fig. 1. Fig. 3 is an end view of a modification. Fig. 4 is a top view of Fig. 3.

Similar letters of reference indicate similar parts in the respective figures.

A is a metallic base, which, as shown in Fig. 1, is formed with a central arch at *a*, and bent around and under at its outer edge, as seen at *b*, while at its inner edge it is similarly bent, as at *c*.

B is a rubber or flexible body flat in form, its outer edge being bent downward and inward into the bend *b* of the metallic base A, which is closely pressed upon the flexible body. A filler *d* is placed in the bend between the outer edge of the base and the flexible body. The filler may be of cord and sewed or otherwise attached to the edge of the flexible body; or it may be a wire, in which case it is not attached. The bent inner edge of the base A rests upon the flexible body B, as shown. Thus formed, the metal base A and flexible body B are firmly clamped together by the attachment of one edge of said body and its filler *d* with the outer edge of the metallic base. The mutual arrangement of the united edges of the metallic base and flexible body, respectively, effects a perfect union between the two parts of the device, and in handling it there is no danger of the detachment of the metallic and flexible parts of the strip, which would not be the case were the edge of the metallic base bent and simply flattened over the edge of the flexible body. The arched form of the metallic base has the effect, when the tack is driven centrally through the base, of permitting the base to flatten or widen out to a certain extent, while keeping its respective edges in perfect con-

tact with the flexible body, and preventing the rising of the inner edge of the metallic base, which would be the result if the arched form were not given to said base. It has been found that the arching of the base and the special means of connecting said base to the flexible body make permanent union between the parts when in contact, the nature of which union is made more perfect when the strip is tacked down. The filler, whether of cord or wire, is of great importance, effecting a close and permanent attachment between the edge of the base and the flexible body, and is specially adapted for use in connection with the base of arched form.

Figs. 3 and 4 show a modification of the invention, in which the metal base, instead of being given the form of a single arch, has the form of a double arch, the two parts of the arch being marked *c' c'*. The effect here is substantially the same as in Figs. 1 and 2, except that the beneficial results arising from the arched construction of the base is obtained in a greater degree. As in the construction shown in Figs. 1 and 2, the weather-strip is attached to the door, window, or other object by means of tacks driven centrally through the base, and upon this being done the tendency of the tacks is to draw the metallic base more firmly to the flexible body.

I make no claim herein to a weather-strip constructed in accordance herewith, but having the filler *d* omitted, as that is described and claimed in my application for Letters Patent of even date herewith, Serial No. 313,672.

Having described my present invention, I claim—

As a weather-strip, a flat elastic body having one edge bent downward and inward and parallel to the main body of the elastic material, and an arched metallic base having its outer edge bent down under and upon the top of the said bent edge of the elastic body and its inner edge bent over and upon the top of said body, combined with a filler clamped between the embracing edges of said base and the elastic body, substantially as specified.

In testimony whereof I hereunto set my hand and seal.

JAS. H. HUMMEL. [L. S.]

Witnesses:

GEORGE H. HOWARD,
EDWIN CRUSE.