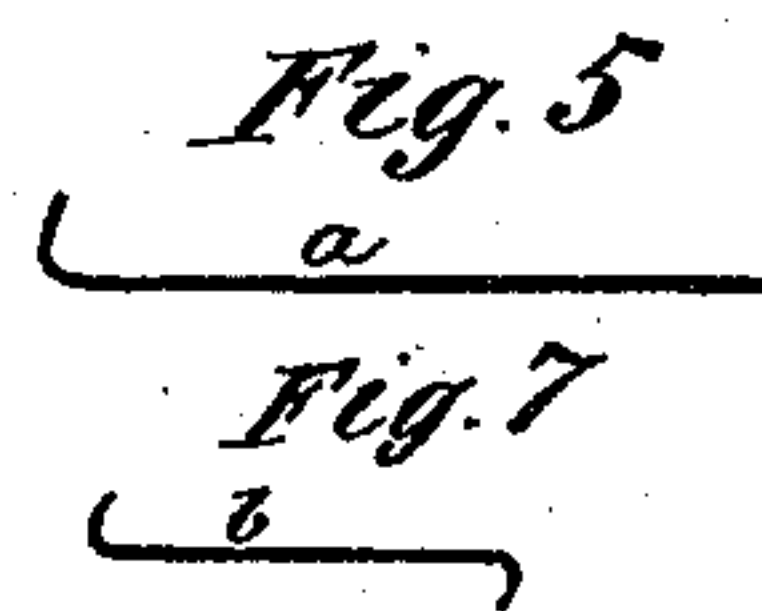
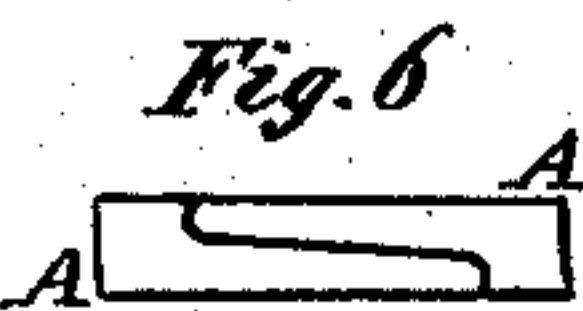
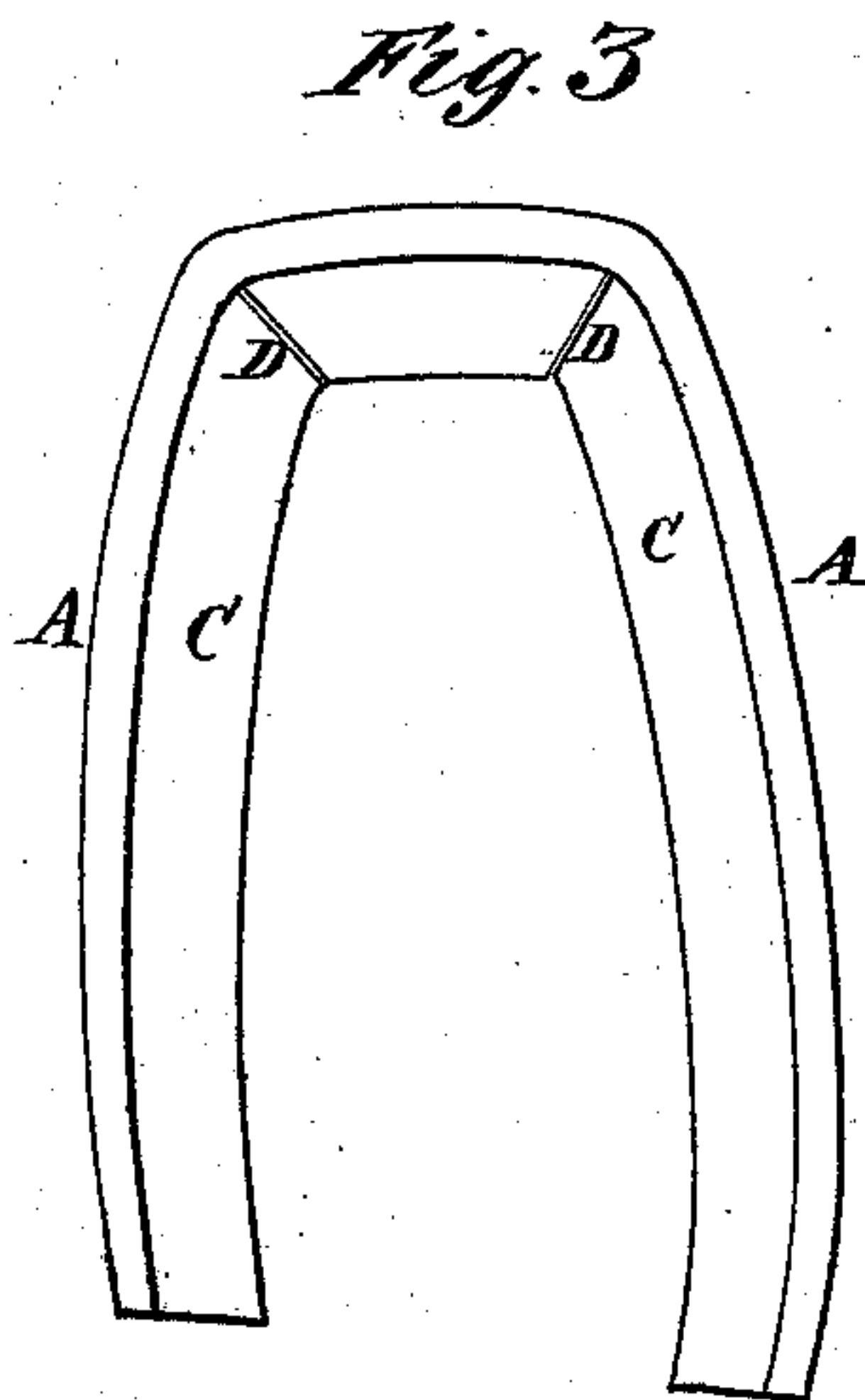
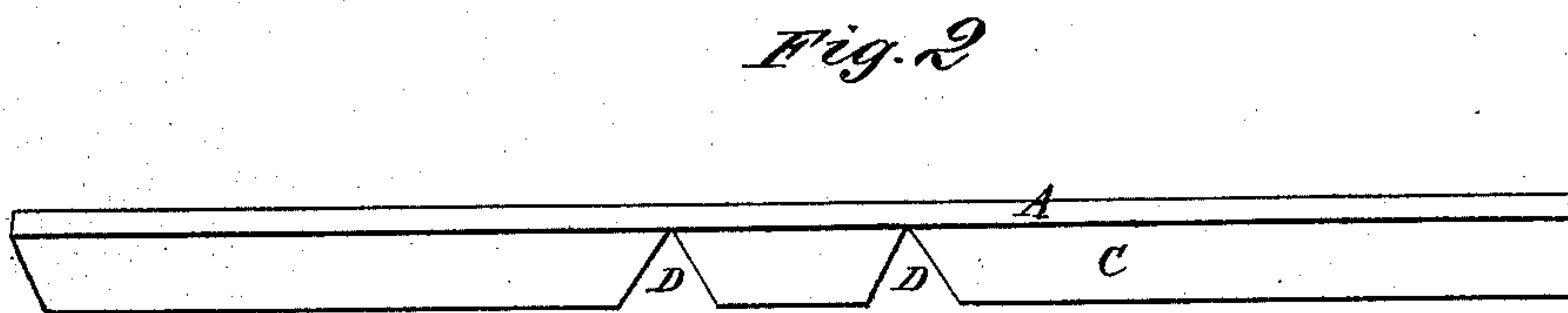
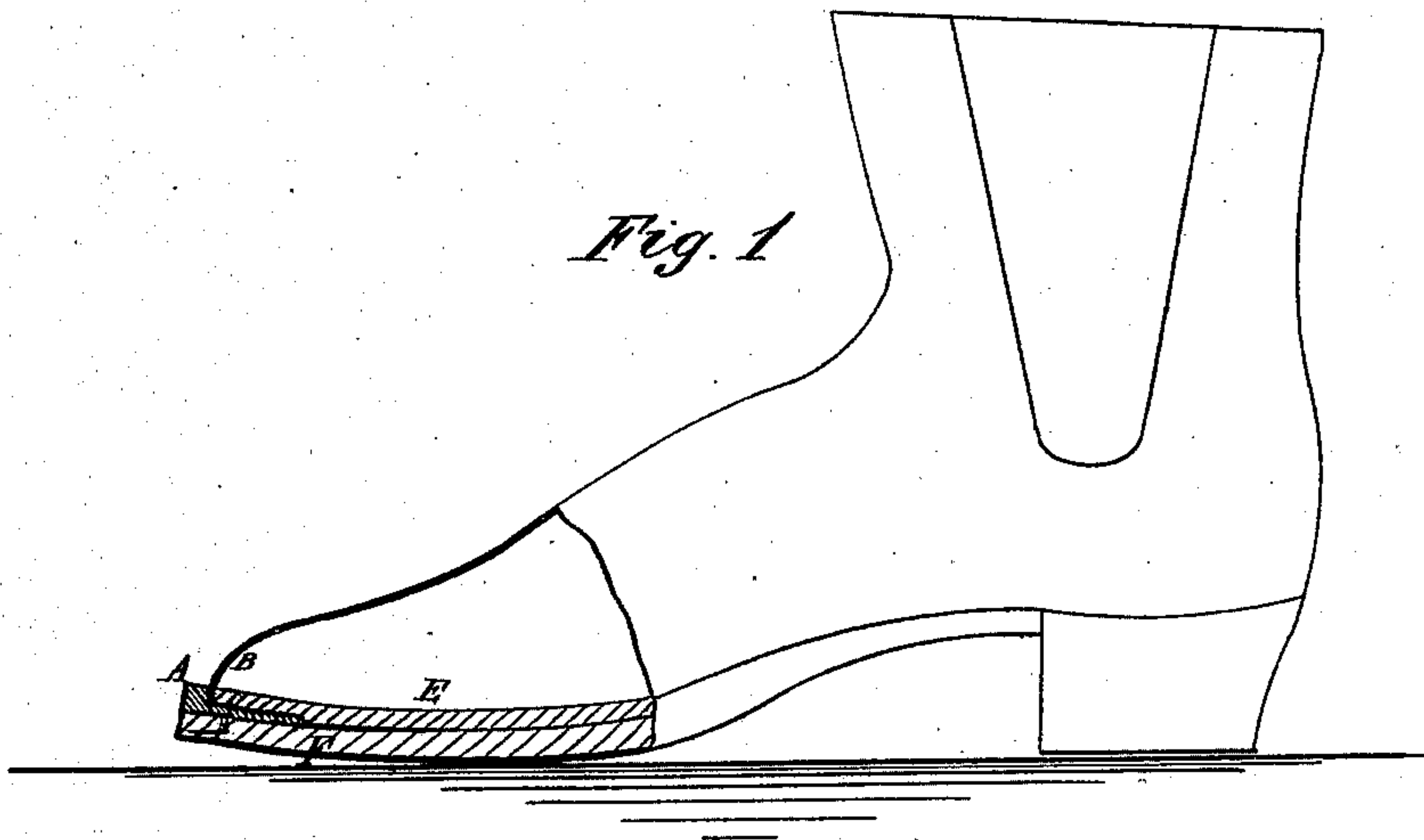


J. GREEN.

Edge-Protecting Welts for Boots and Shoes.

No. 143,623.

Patented Oct. 14, 1873.



Witnesses:
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DeGruick

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UNITED STATES PATENT OFFICE.

JOHN GREEN, OF BROOKLYN, ASSIGNOR TO HIMSELF AND JOSEPH BACH,
OF NEW YORK, N. Y.

IMPROVEMENT IN EDGE-PROTECTING WELTS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 143,623, dated October 14, 1873; application filed
September 6, 1873.

To all whom it may concern:

Be it known that I, JOHN GREEN, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Edge-Protecting Welt for Boots and Shoes, of which the following is a specification:

My invention consists in making the protecting welts, for the lower outer edges of the uppers of boots and shoes, of a strip of narrow leather, or other suitable substance, whereby I economize considerably in material and labor over the method of forming said welt by hollowing out a sole-piece, as heretofore done.

Figure 1 is partly a side elevation and partly a sectional elevation of a shoe constructed according to my invention. Fig. 2 is a welt constructed and prepared for applying it to the shoe according to my invention. Fig. 3 is a plan of the welt bent to the required shape for fastening to the insole. Fig. 4 is a cross-section of the welt. Fig. 5 is a line representing the form of the knife-blade which I use for rabbeting the leather strip to raise the protecting welt; Fig. 6 is a cross-section of a strip, showing a plan of cutting two welts from one strip of leather without waste, and Fig. 7 is a line representing the shape of the cutter for cutting said strip.

Similar letters of reference indicate corresponding parts.

A protecting welt, A, of leather, raised up along the lower outer edge B of the upper, has been heretofore used for protecting said upper from wear in contact with hard objects to which it is greatly exposed, particularly in the case of children's shoes; but said welt has been formed by hollowing out the upper surface of a sole-piece of leather put onto the shoe between the insole and the outer one specially for the purpose, thus adding one layer of leather to the sole and increasing the cost more than is necessary, for the middle portion of the additional layer is not needed for the sole, and is of no use to the welt. I therefore propose to form this welt of a long

narrow strip of leather, or other suitable material, wide enough for the said welt A and a breadth, C, inside of it, sufficient for sewing through, together with the soles for fastening them all together. In making the welt I take a strip of sole-leather long enough to extend all around as far back as the shank, and, say, from a half to three-quarters of an inch wide, more or less, and by running it through a splitting, skiving, or other machine against a cutter-blade, *a*, of the form represented in Fig. 5, rabbet the part C down as much thinner than the thickness of the strip as I want the protecting-welt to rise up along the edge of the upper; then I cut out the gores D where I want to bend the strip for the corners of the sole, and bend the strip to the form of the sole, as in Fig. 3, and tack the part C onto the upper B and the insole E, preparatory to sewing the whole, including the sole F, together. By another plan I take a little wider strip of leather, Fig. 6, and cut it on a blade, *b*, Fig. 7, so contrived in its form that it will split the strip so as to form two complete welts without any waste of material whatever. Thus I do not only save considerable in material, but also in labor, for the welt can be made quicker in this manner than in the other. If the welt is made of india-rubber or gutta-percha, it will be molded into the required shape instead of being cut, as above described; but generally it will be made of leather.

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

The welt A for the protection of the shoe-upper, formed of a long narrow strip of leather or other material rabbeted on the upper side to receive the upper, and bent or molded to conform to the shape or outline of the sole, substantially as specified.

JOHN GREEN.

Witnesses:

T. B. MOSHER,
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