

J. V. Dinsmore,
Boot Heel.

N^o 27,702.

Patented Apr. 3, 1860.

Fig. 2.

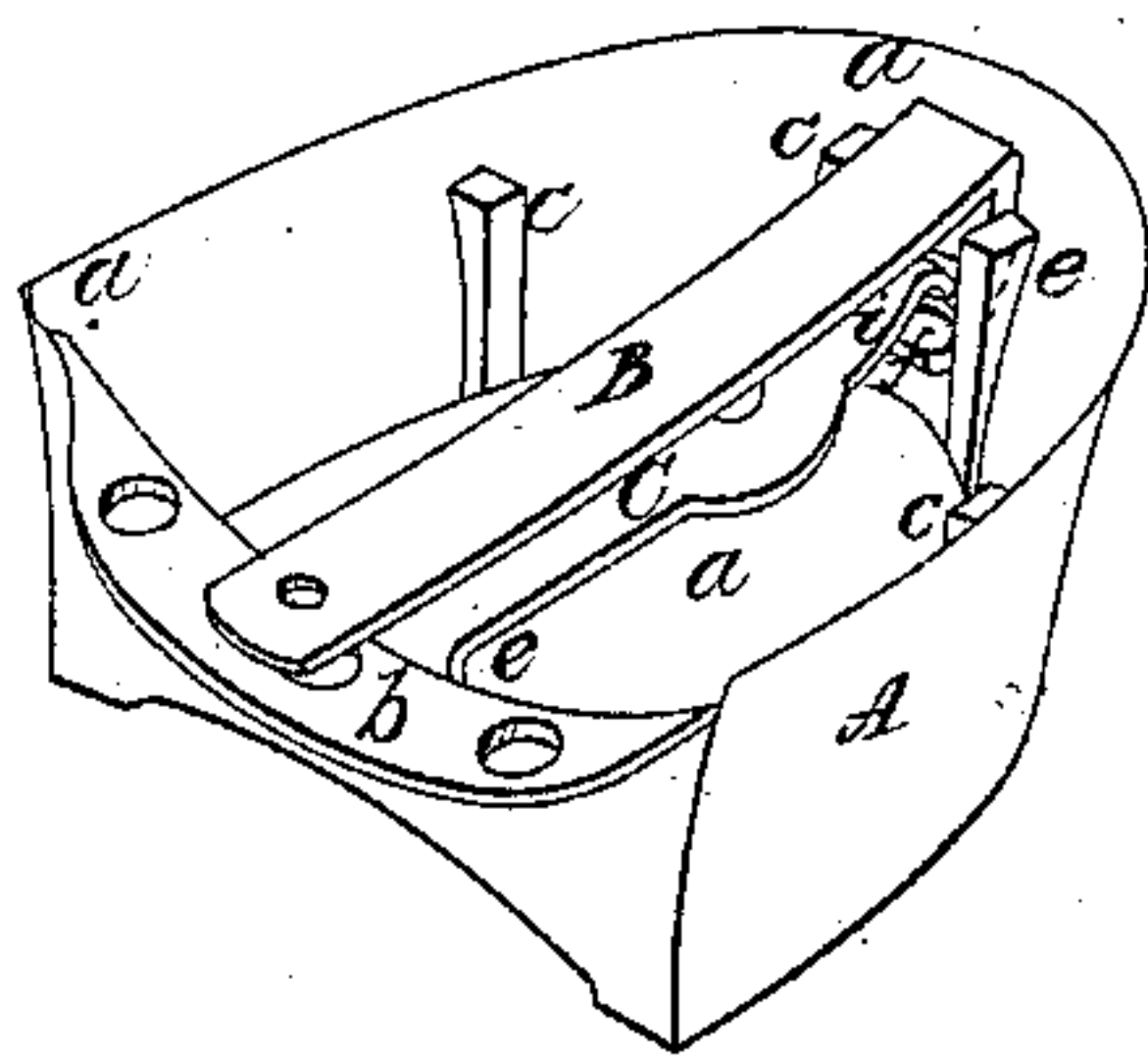
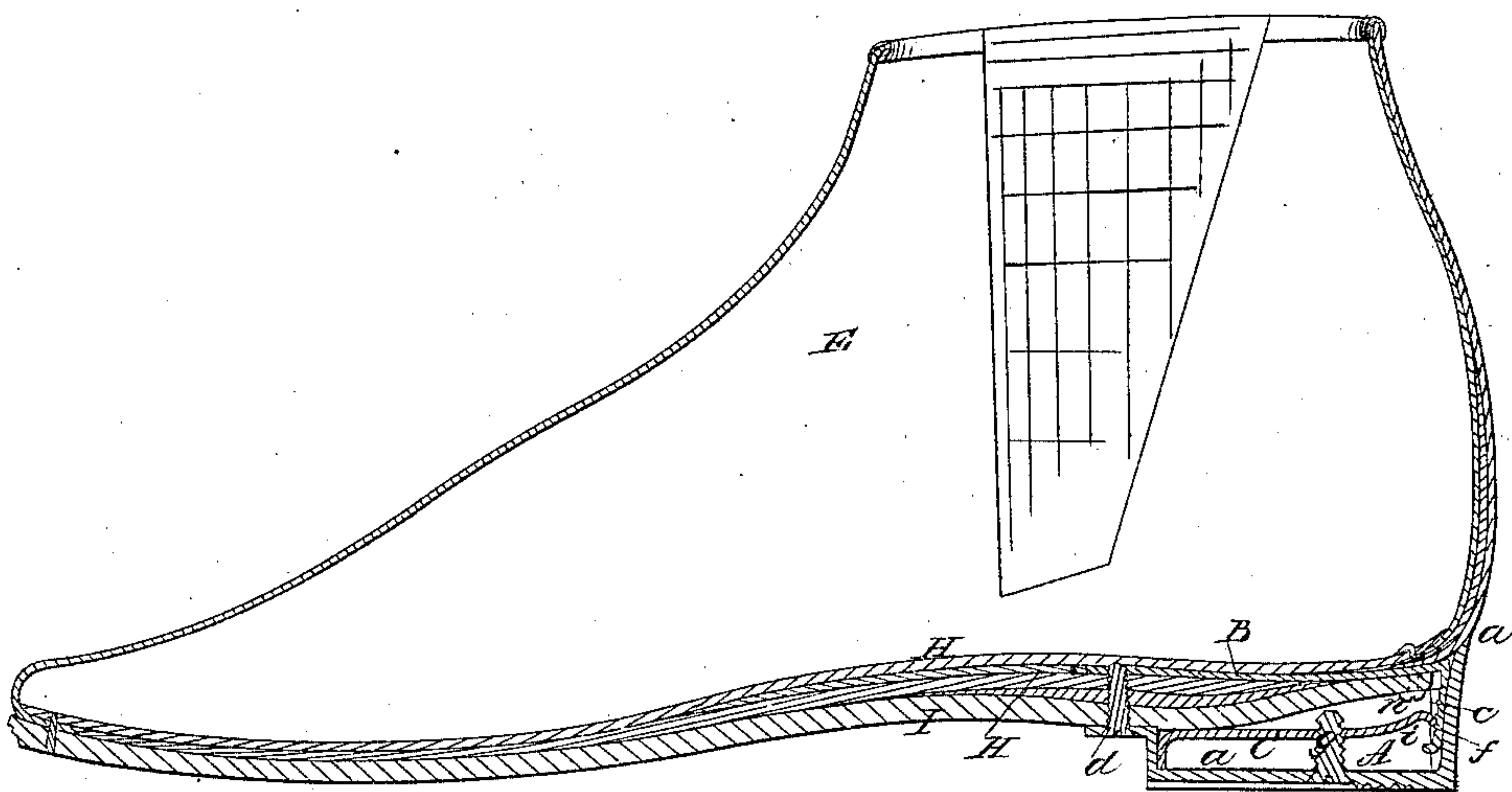


Fig. 1.



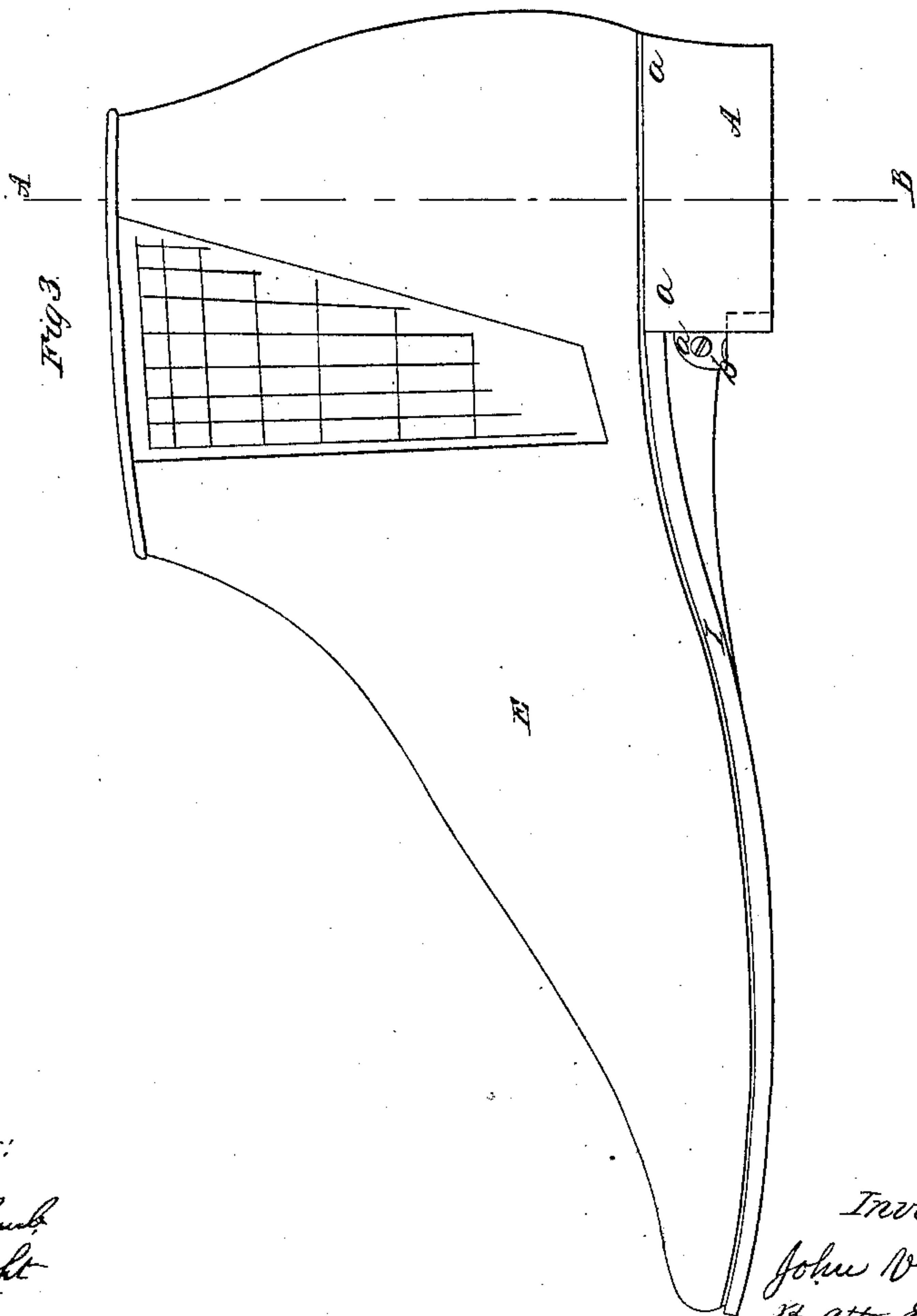
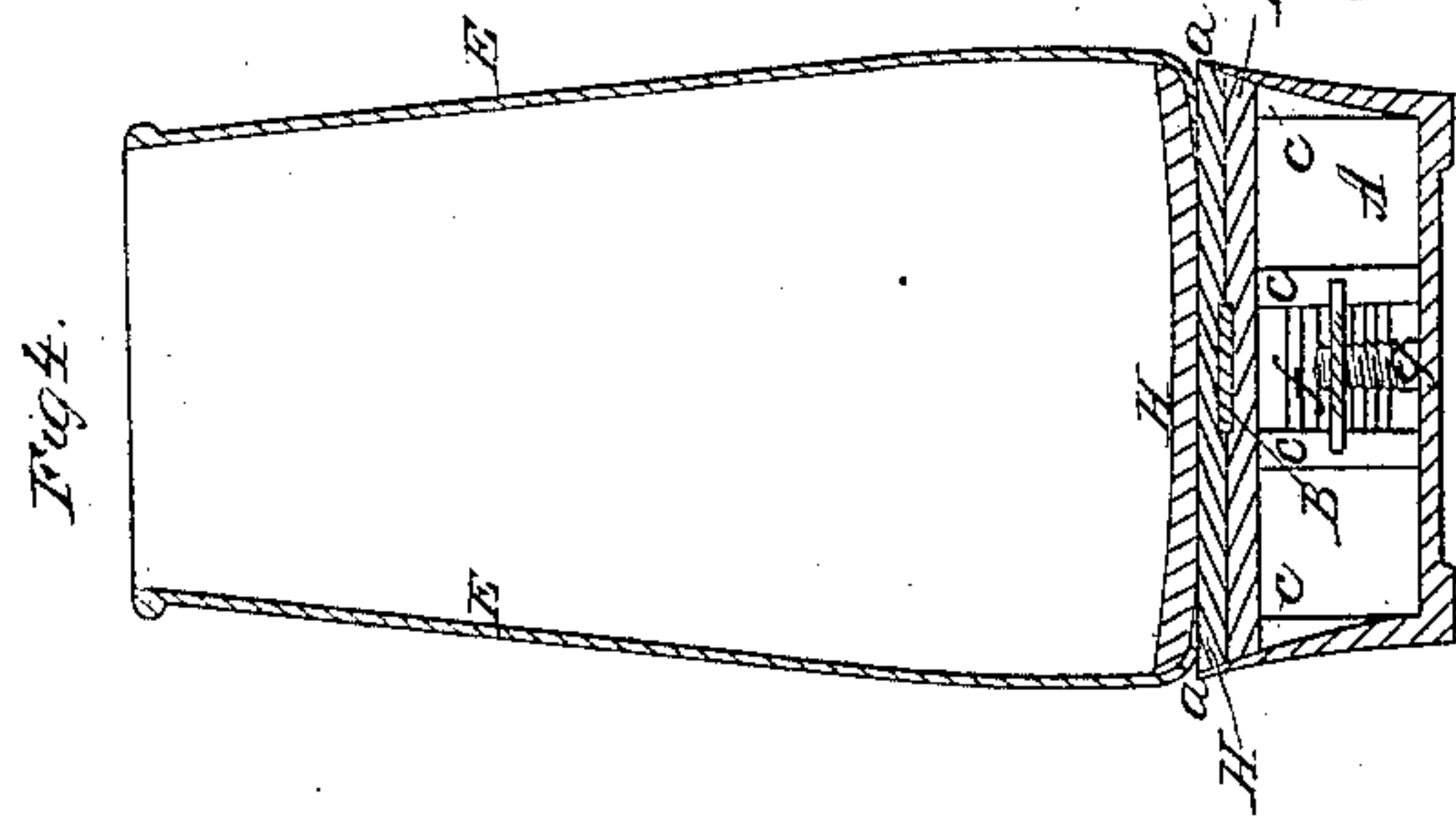
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UNITED STATES PATENT OFFICE.

J. V. DINSMORE, OF AUBURN, MAINE.

METALLIC HEELS FOR BOOTS AND SHOES.

Specification of Letters Patent No. 27,702, dated April 3, 1860.

To all whom it may concern:

Be it known that I, J. V. DINSMORE, of Auburn, in the county of Androscoggin and State of Maine, have invented a new and useful method of securing heels to boots and shoes; and I hereby declare that the following specification, in connection with the accompanying drawings and letters of reference marked thereon, constitute a lucid, clear, and exact description of the construction and use of the same.

In referring to the said drawings, Figure 1, denotes a vertical and central section through a boot and heel secured thereto by my improved method. Fig. 2, a perspective view of the heel, and parts constituting my method of securing it to the shoe. Fig. 3 is a side elevation of the boot, with the heel applied, and secured, by my method. Fig. 4, denotes a transverse and vertical section on line A, B, Fig. 3, showing definitely how the heel is clamped and held to the boot or shoe.

Invention.—The nature of my invention consists in so shaping and conjoining the heel and sole, to each other by a tapering fit, that the heel shall firmly and snugly clasp the sole, as a part of its security thereto, and the forward end of heel be secured to sole by screws while the back and much the greater part is secured by a notched surface of a plate attached to the boot and acted upon by a spring fitting these notches, and drawn up by a screw approachable from the outside, to cause the heel to recoil effectually from any blow tending to throw it off, and also to draw the heel always tightly and solidly to the sole, if they become shrunk, the holding spring being at any time adjustable by means of its screw to retighten the heel, all as will be hereafter seen.

Construction.—To enable persons skilled in the art to which my invention appertains, to construct and carry out the same I will describe it as follows: I construct the heel seen at A, of metal, or, any other substance or, composition, but prefer metal, the upper edge *a*, is made quite thin, and nicely fitted tapering so as to crowd snug on to the part of the sole I designed to receive it, the stop pieces *c*, preventing it going on too far, but allowing the upper edge of heel *a*, to approach very near, but not quite touch the upper leather E, as seen at Figs. 3, and

4. If desired the top of heel may be made sufficiently thick to allow it to closely conjoin with the upper.

A flange *b*, is projected from the frontal part of the heel, and secured to the sole by screws *d*, one of which is threaded into plate B, and firmly secure it to, and between the soles H, and I of the boot, by means of rivets *n*, or otherwise. The back end of this plate B, being bent, and projecting down inside, but contiguous to the inner surface of heel A, and between two stop pieces *c*, for its guidance. The inner surface of the downward angle of this plate B, is notched as seen at *f*, to receive one end *i*, of spring C, which spring is properly tempered. The other hooked end *e*, rests against the inner surface of heel A.

The screw *g*, threaded to spring C, by being turned in the right direction draws up or straightens the spring C, and by that means draws the heel continually on to the sole, by the elastic or recoiling power and pressure of the spring C, any desired pressure can be readily had, any time for adjustment, or additional security, (without removing or disturbing the heel) by simply turning the screw *g*, as may be desired, the clamping the sole I, by the heel A, gives the heel great guiding strength, while the other parts, described in conjunction with clamping the sole, completes my method for securing the heel, firmly and solidly to the boot, or shoe.

When the soles become wet and swelled, the spring C, may allow the heel A, to start off a trifle, and the same spring draws the heel up when the sole becomes dry.

It will be readily seen that very many modifications, of my device, may be made without evading its principle, and I of course design to cover every method fairly embraced in my invention.

The advantages of my invention are that it can be quickly and cheaply applied to the boot, and quickly be removed without injury, and that the heel is always held solidly and firmly to the boot, in all climates and uses, and the heels if made of chilled cast iron, will wear for an almost indefinite length of time. There being no wear perceptible to the fastening, constitutes it the most durable and cheap ever known.

Having thus described my invention I will state my claim as follows.

What I claim as my invention, and desire to secure by Letters-Patent, is securing heels to boots and shoes solidly, in all weather, and climates, and uses, by clamping the sole
5 by the heel A, and drawing it thereon continuously by screw *g*, and spring C, acting upon the plate B, or its equivalent, substan-

tially in the manner and for the purposes fully set forth and described.

J. V. DINSMORE.

Witnesses:

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