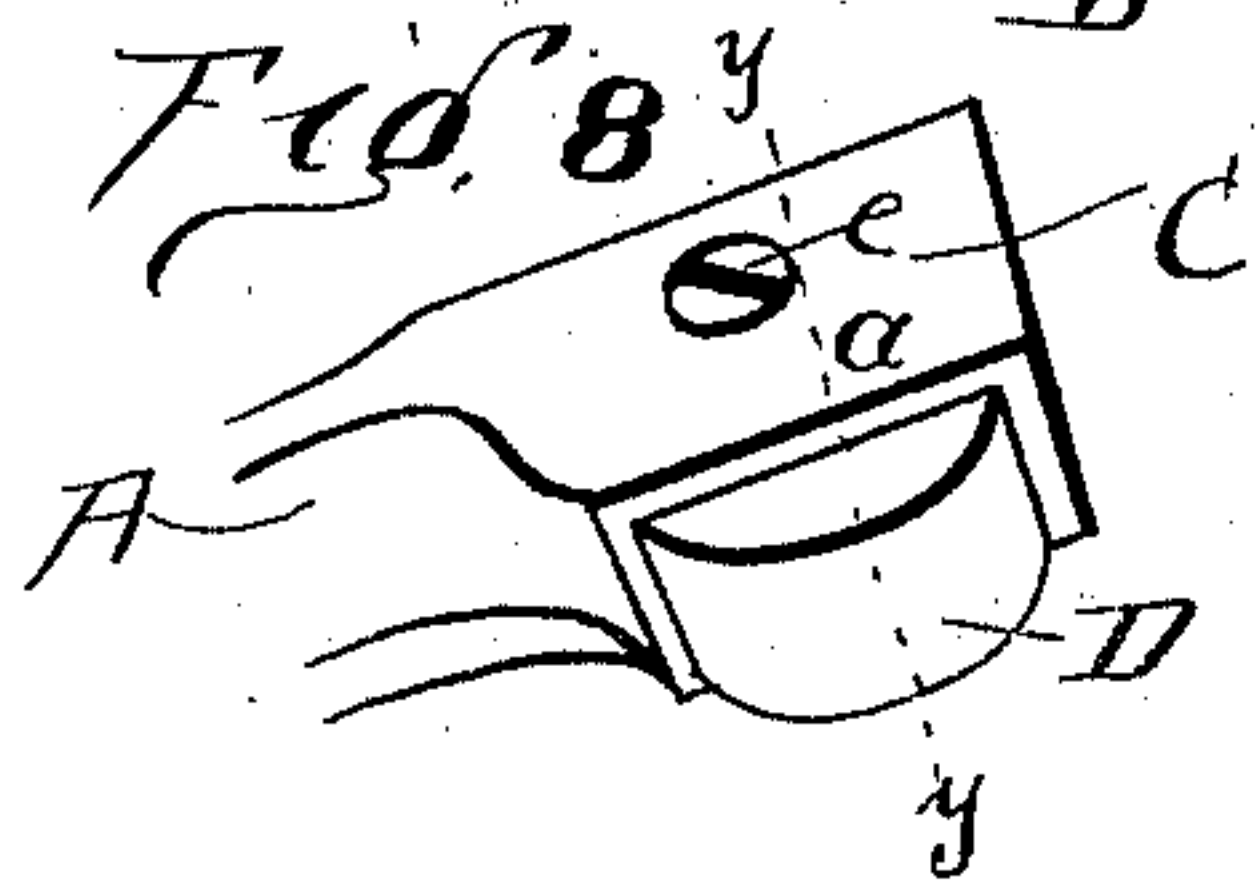
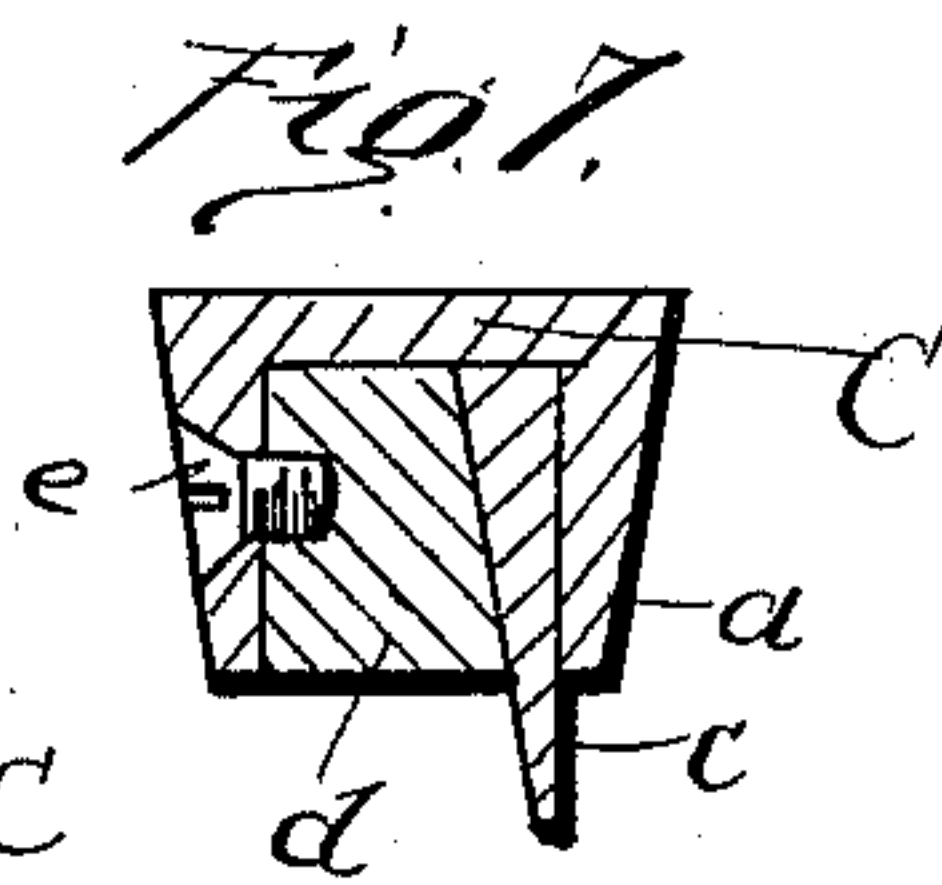
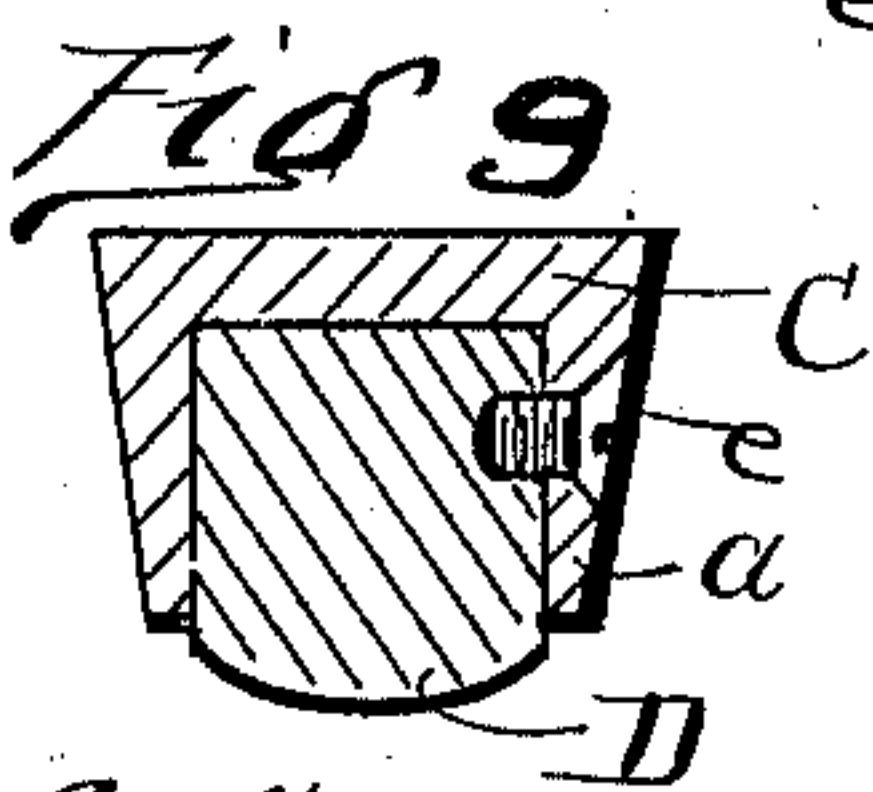
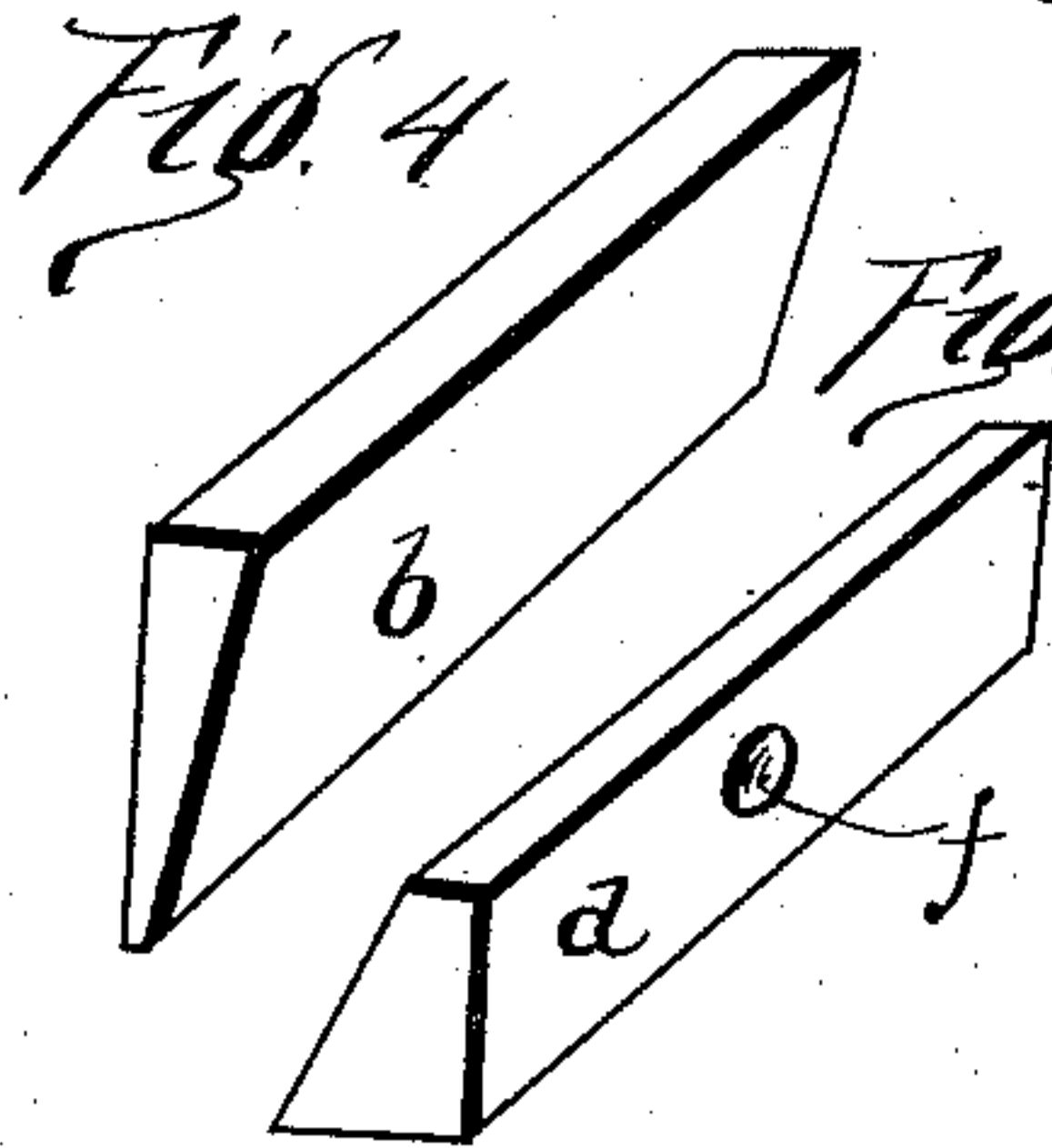
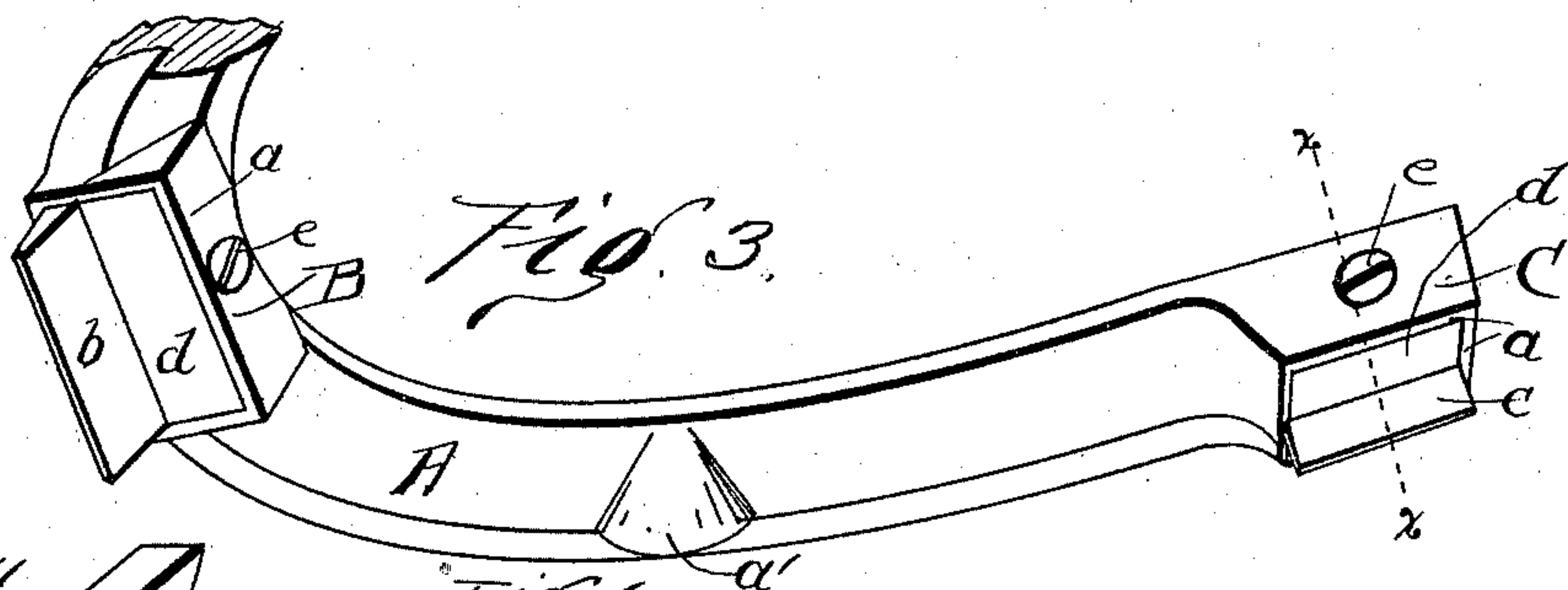
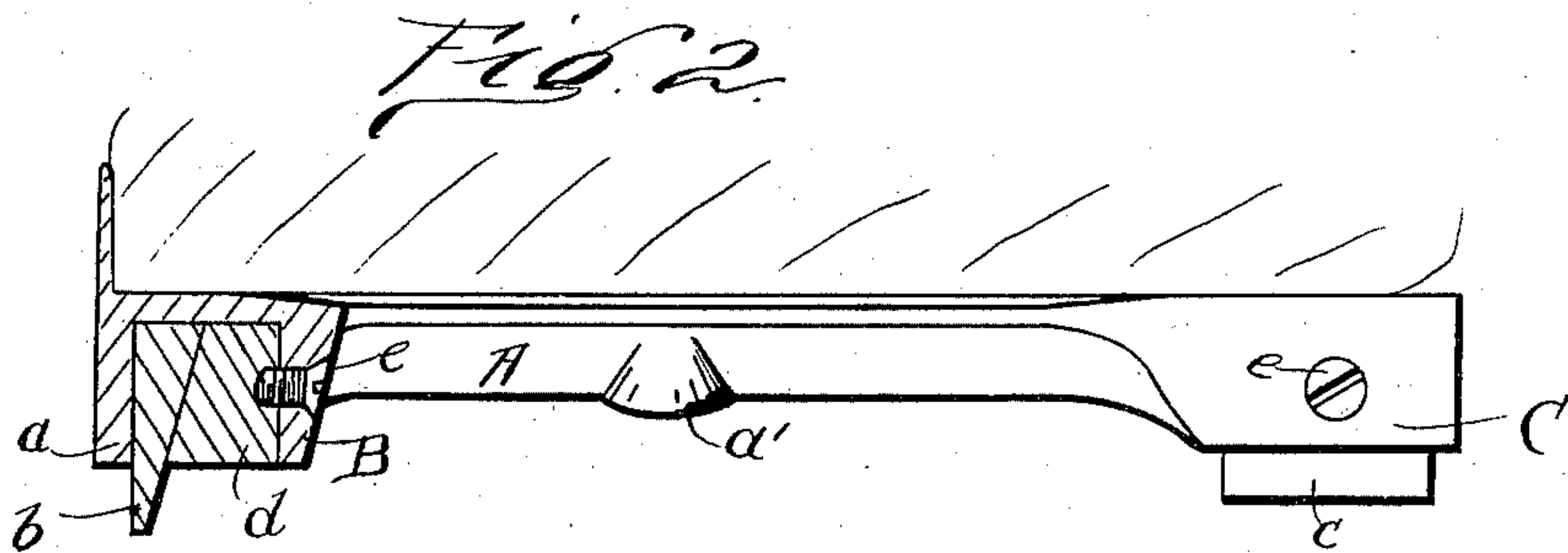
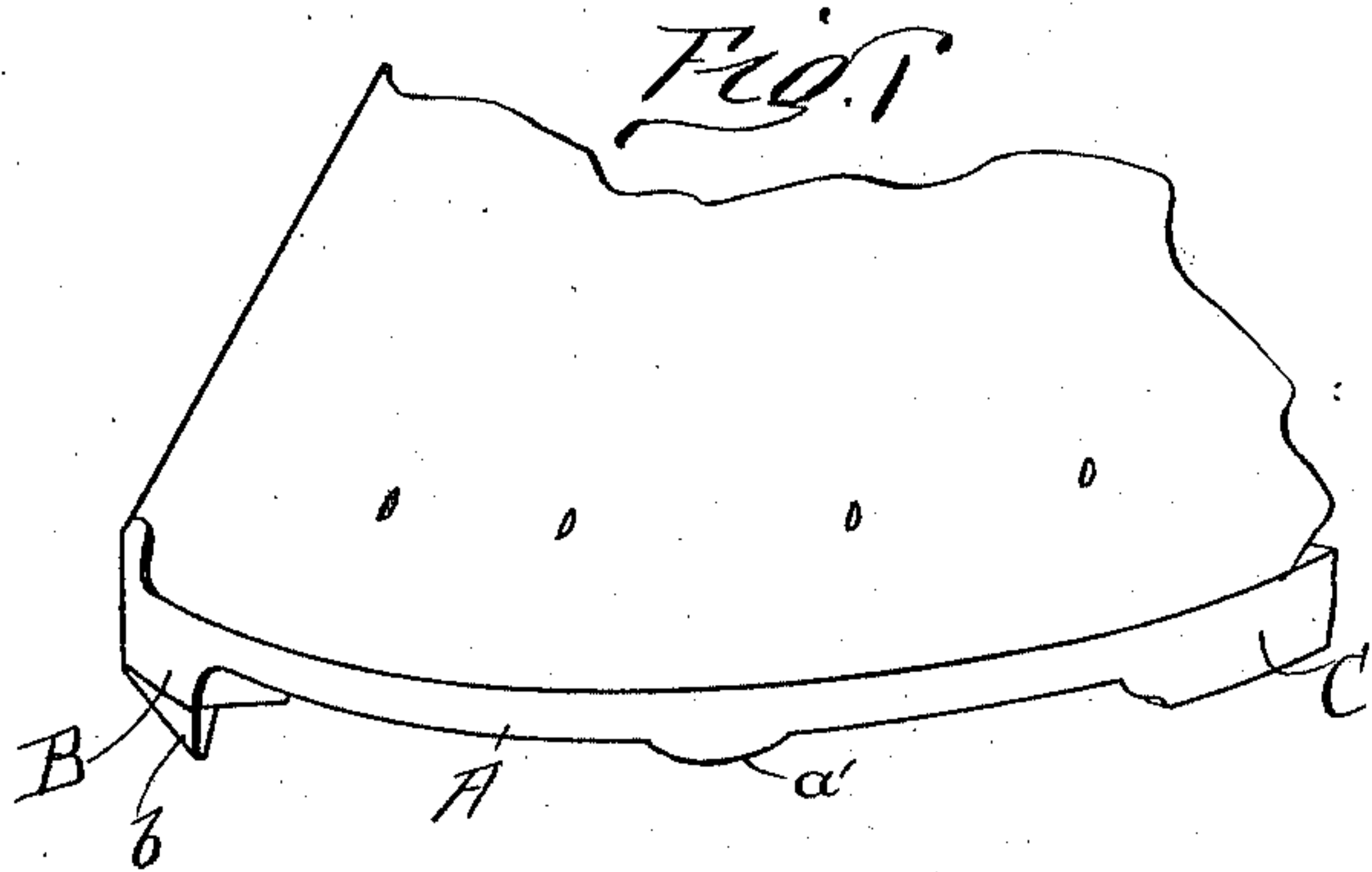


(No Model.)

J. D. HALL.  
HORSESHOE.

No. 591,166.

Patented Oct. 5, 1897.



WITNESSES  
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Attorney.



# UNITED STATES PATENT OFFICE.

JOHN D. HALL, OF ORRVILLE, OHIO.

## HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 591,166, dated October 5, 1897.

Application filed September 5, 1896. Serial No. 604,988. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN D. HALL, a citizen of the United States, residing at Orrville, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Horseshoes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a view showing the shoe properly attached to a horse's hoof. Fig. 2 is a view showing one-half of the shoe and illustrating it attached to a horse's hoof. Fig. 3 is a view showing a portion of the shoe. Fig. 4 is a detached view of the metal calk. Fig. 5 is a detached view of the calk-retaining block or key. Fig. 6 is a detached view of one of the retaining-screws. Fig. 7 is a transverse section through line *x x*, Fig. 3. Fig. 8 is a view showing a portion of the horseshoe and illustrating a rubber or yielding calk properly attached thereto. Fig. 9 is a transverse section through line *y y*, Fig. 8.

The present invention has relation to horseshoes; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claim.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, A represents the shoe proper, which is constructed in the ordinary manner as to shape and size, except that it is provided with boxes or rectangular receptacles upon its under side for the reception of interchangeable toe and heel calks. The boxes or receptacles B and C are formed by providing flanges *a*, which flanges are formed integral with the body of the shoe and extend downward or laterally from the body of the shoe a sufficient distance to give the desired depth to the receptacles B and C. When it is desired to provide a shoe designed and calculated for use upon slippery roads or at times when it is desired to prevent a horse's feet from slipping, the metal calks *b* and *c* are provided, which metal calks are formed of a length to correspond with the length of the boxes B and C and taper from their upper edges toward their bottom or lower edges, substantially as illustrated in Fig. 4.

The retaining blocks or keys *d* are formed of a length to correspond with the length of the boxes B and C and taper from their bottom or lower edges toward their top or upper edges upon their sides adjacent to the sides of the calks. When it is desired to use the shoe-body A as a cushion-shoe, the metal calks *b* and *c* and their retaining blocks and keys *d* are removed and the rubber blocks or calks D are placed in the boxes or receptacles B and C with their bottom or lower ends extended a short distance below the bottom of the boxes or receptacles, thereby projecting said rubber calks a short distance beyond their receptacles.

For the purpose of retaining the metal calks *b* and *c* in proper position and at the same time securely clamping said calks the screws *e* are provided, which screws are so adjusted that their inner ends will press or bear in the sockets *f*, formed in the blocks or keys *d*, or in the face of the rubber blocks or calks D.

It will be understood that by my peculiar arrangement I am enabled to provide either a cushioned shoe or a sharp-calked shoe, as desired, without any change in the formation of the shoe.

For the purpose of preventing the shoe proper from springing the projections *a'* are provided, which projections are formed integral with the shoe and extended a short distance downward, thereby providing intermediate supports between the toe and heel calks.

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

The combination of the shoe-body A provided with the rectangular receptacles upon its under side formed by the flanges *a*, the calks *b* and *c* tapered from their upper edges toward their bottom or lower edges, the retaining blocks or keys *d* formed of a length to correspond with the receptacles, and their bottom or lower edges tapered toward their top or upper edges and provided with the sockets *f*, and the set-screws *e*, all arranged substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN D. HALL.

Witnesses:

A. O. GEISINGER,  
N. L. ROYER.