

No. 708,607.

Patented Sept. 9, 1902.

F. W. WOOD & M. R. MACPHERSON.  
HORSESHOE PAD.

(Application filed Jan. 31, 1902.)

(No Model.)

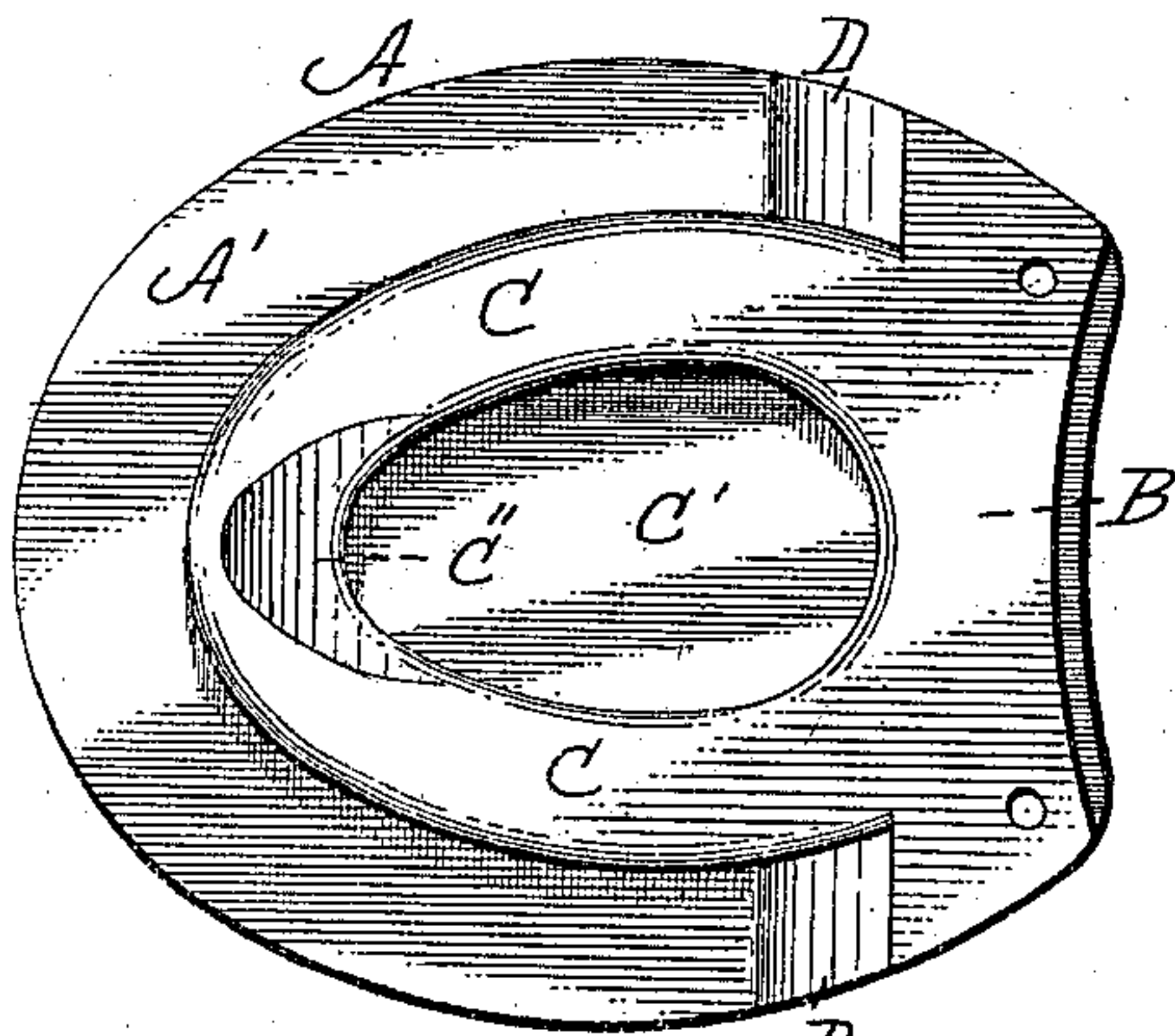


FIG. 1.

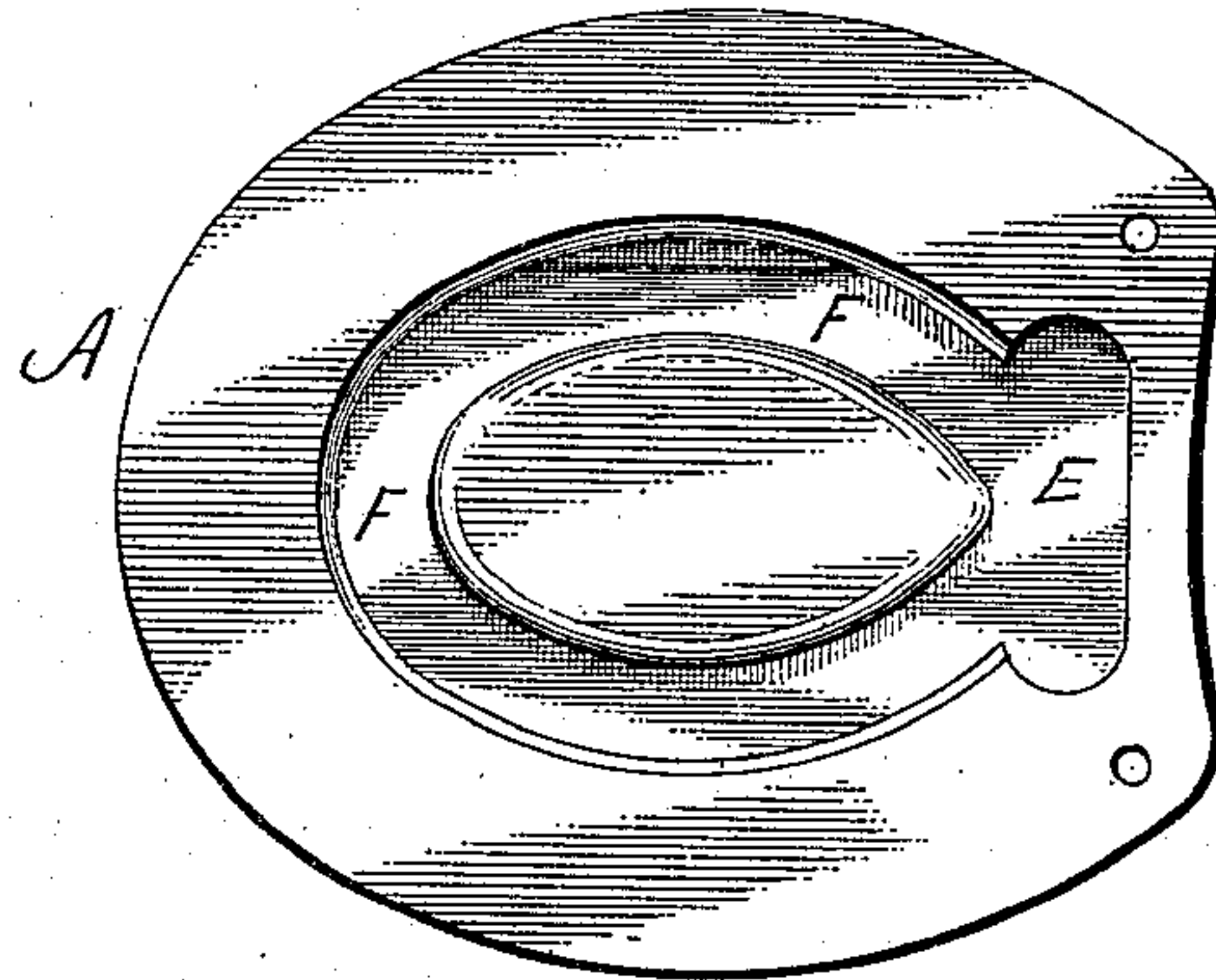


FIG. 2.

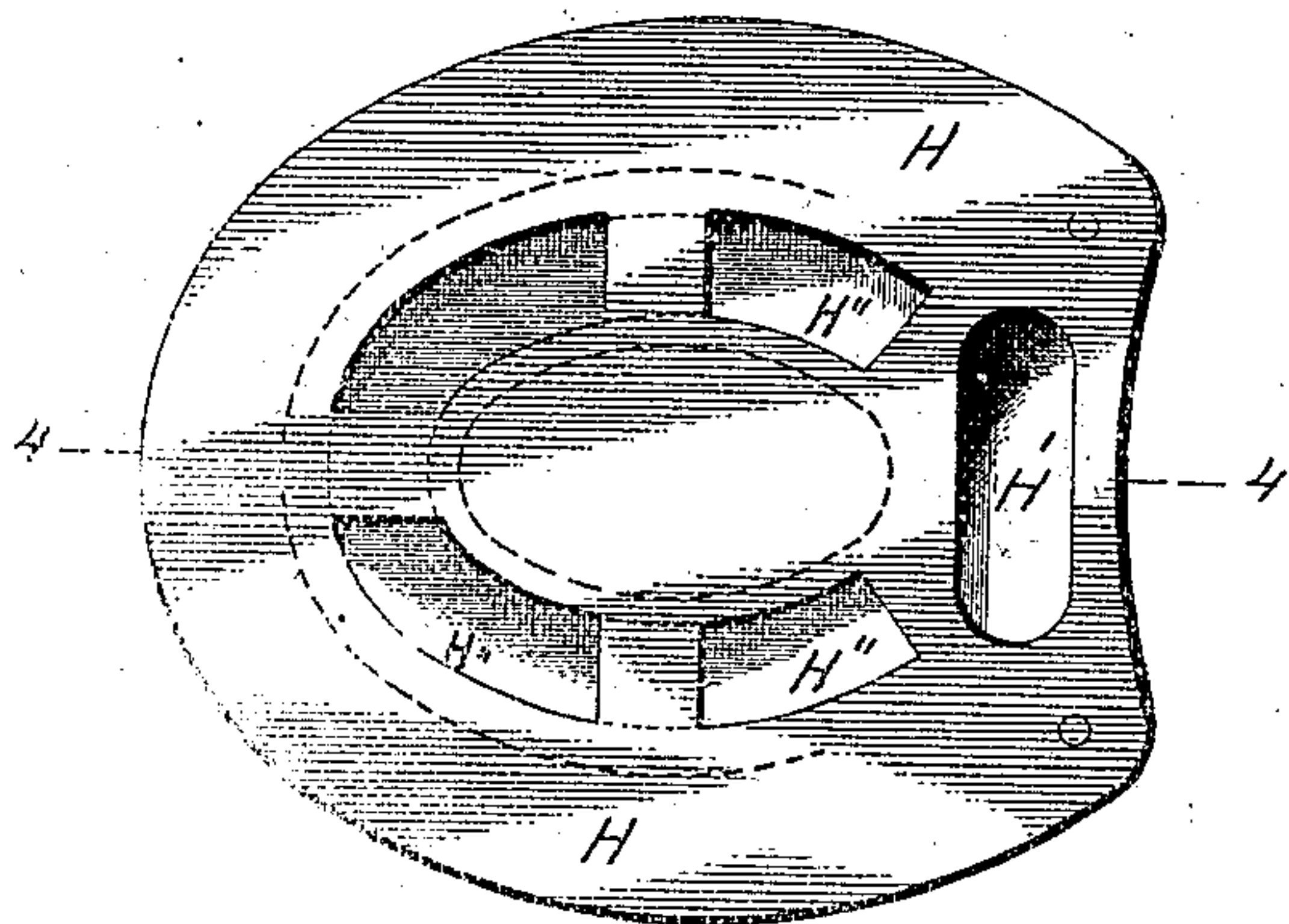


FIG. 3.

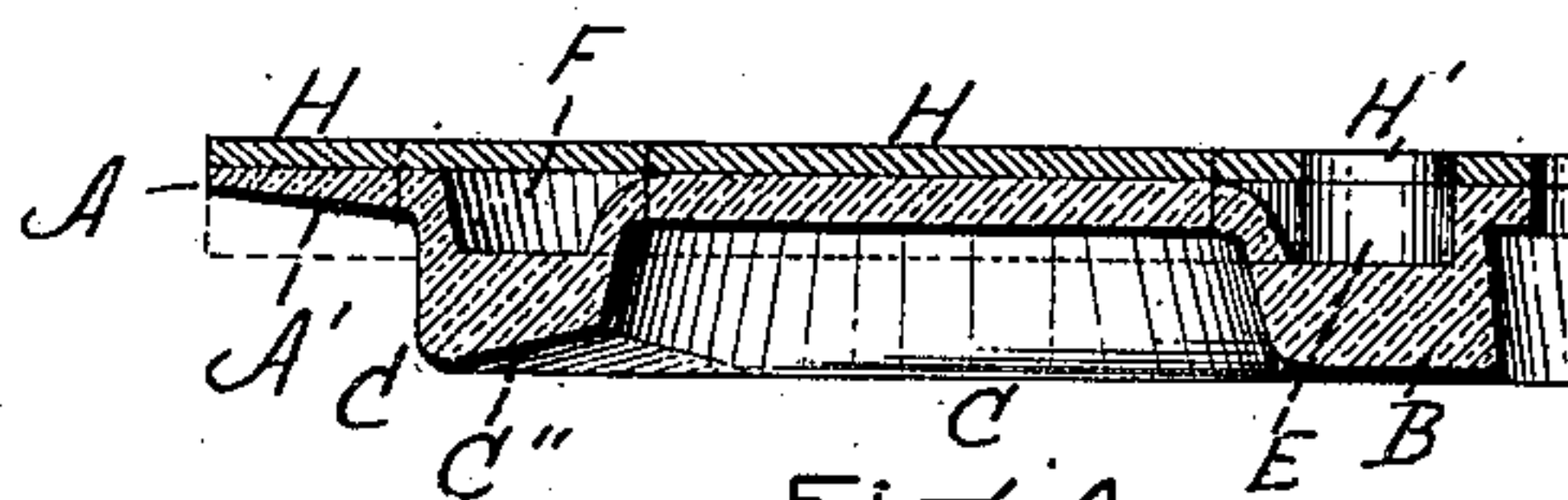


FIG. 4.

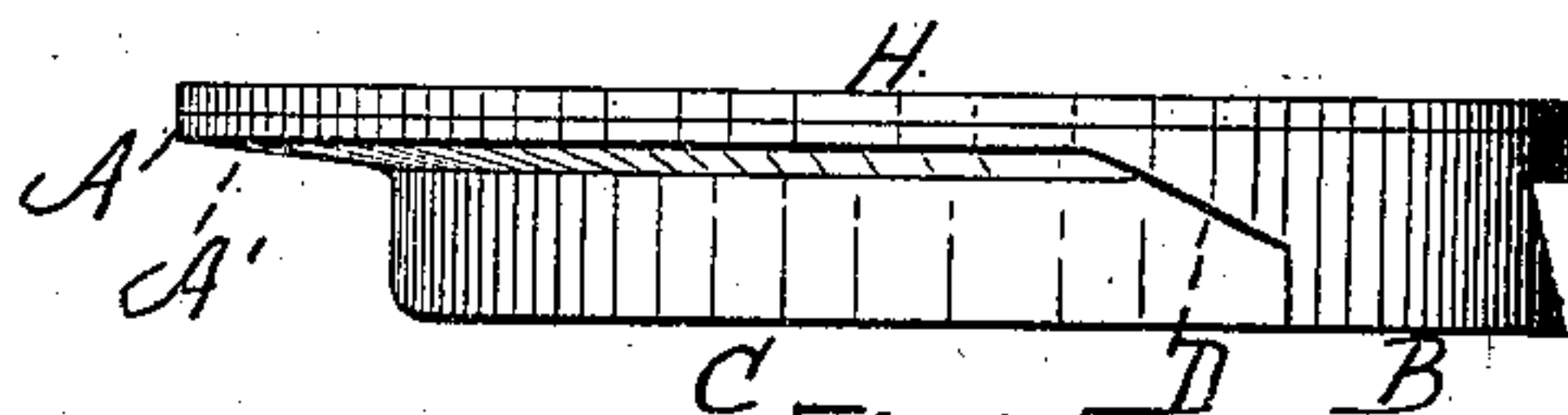


FIG. 5.

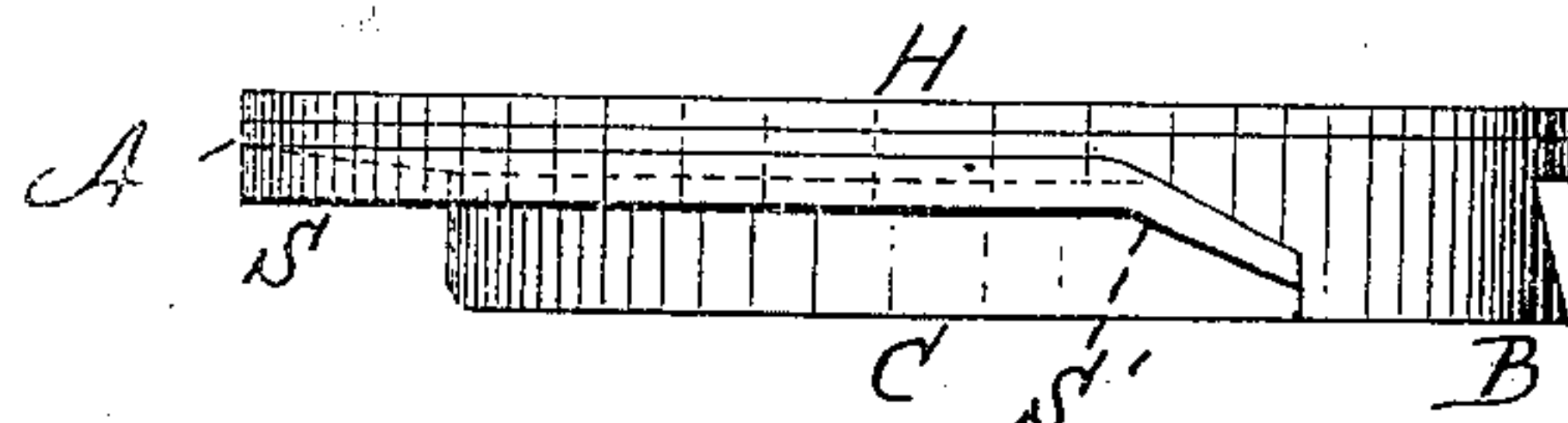


FIG. 6.

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By their Atty.  
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# UNITED STATES PATENT OFFICE.

FRANK W. WOOD AND MERCER R. MACPHERSON, OF CHELSEA,  
MASSACHUSETTS.

## HORSESHOE-PAD.

SPECIFICATION forming part of Letters Patent No. 708,607, dated September 9, 1902.

Application filed January 31, 1902. Serial No. 91,986. (No model.)

*To all whom it may concern:*

Be it known that we, FRANK W. WOOD and MERCER R. MACPHERSON, citizens of the United States, residing in Chelsea, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Horseshoe-Pads, of which the following is a specification.

This invention relates to horseshoe-pads of the style comprising a rubber cushion having one or more air-chambers and a layer of leather or equivalent material between the rubber cushion and the hoof of the animal; and it consists in the novel construction and arrangement of parts fully described below, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the bottom of the rubber cushion making a part of the pad. Fig. 2 is a top view of the same. Fig. 3 is a top view of the entire pad, comprising the cushion and leather layer in position with relation to each other. Fig. 4 is a section taken on line 4, Fig. 3, the position of the shoe being indicated by dotted line. Fig. 5 is a side view of the same. Fig. 6 is a similar view of the pad in position on the shoe.

Similar letters of reference indicate corresponding parts.

A represents a rubber cushion molded in a single piece. The underside of this cushion is formed with a tread comprising the thickened heel portion B, from which extends forward an elliptical or oval portion C. The portions B and C are of the same thickness, which is somewhat greater than that of the shoe S, which is adapted to lie next the outer portion A' on the under surface of the cushion, such portion extending from the heel portion B around the toe between the portion C and the edge. From the heel portion B forward, outside the portion C and connecting with the portion A', are inclines D, and the shoe S is bent up at S' to fit said inclines. The recess C', formed by the portion C of the tread, produces a suction effect as the horse treads, and the toe-part C'' of said portion C is beveled off rearward to render the tread a trifle more yielding at that point and assist the operation of walking.

The upper surface of the cushion A is provided with a recess E centrally at the heel and above the part B, and from this recess an oval or elliptical groove F extends, corresponding with the part C on the under side of the cushion. The groove F and recess E constitute an air-cushion between the hoof and the pad, and the recess E is important and efficient in preventing frog-pressure.

H is a layer of leather or equivalent material corresponding in general shape to that of the cushion and lying between the cushion and the hoof. This layer has a hole H' coincident with the recess E and a number of holes H'' registering with the groove F, whereby air enters said groove and recess and is cushioned therein by direct contact with the hoof.

The relative position of the parts when the shoe is applied is illustrated in Fig. 6, the nails being driven through the shoe S, cushion A, and layer H, securing the shoe and pad to the hoof.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

In a horseshoe-pad, in combination, the rubber cushion comprising the main portion A, the heel portion B, and the substantially elliptical tread portion C, said cushion being formed on its upper surface at the point where the frog is liable to press, with the recess E connecting with the groove F but having no connection with or passage leading to the edge of the cushion; and the leather layer H provided with the hole H' located at the heel but having no connection with or passage to the edge of the layer, and being coincident or registering with said recess, for the purpose of preventing frog-pressure, substantially as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

FRANK W. WOOD.  
MERCER R. MACPHERSON.

Witnesses:

HENRY W. WILLIAMS,  
A. N. BONNEY.