

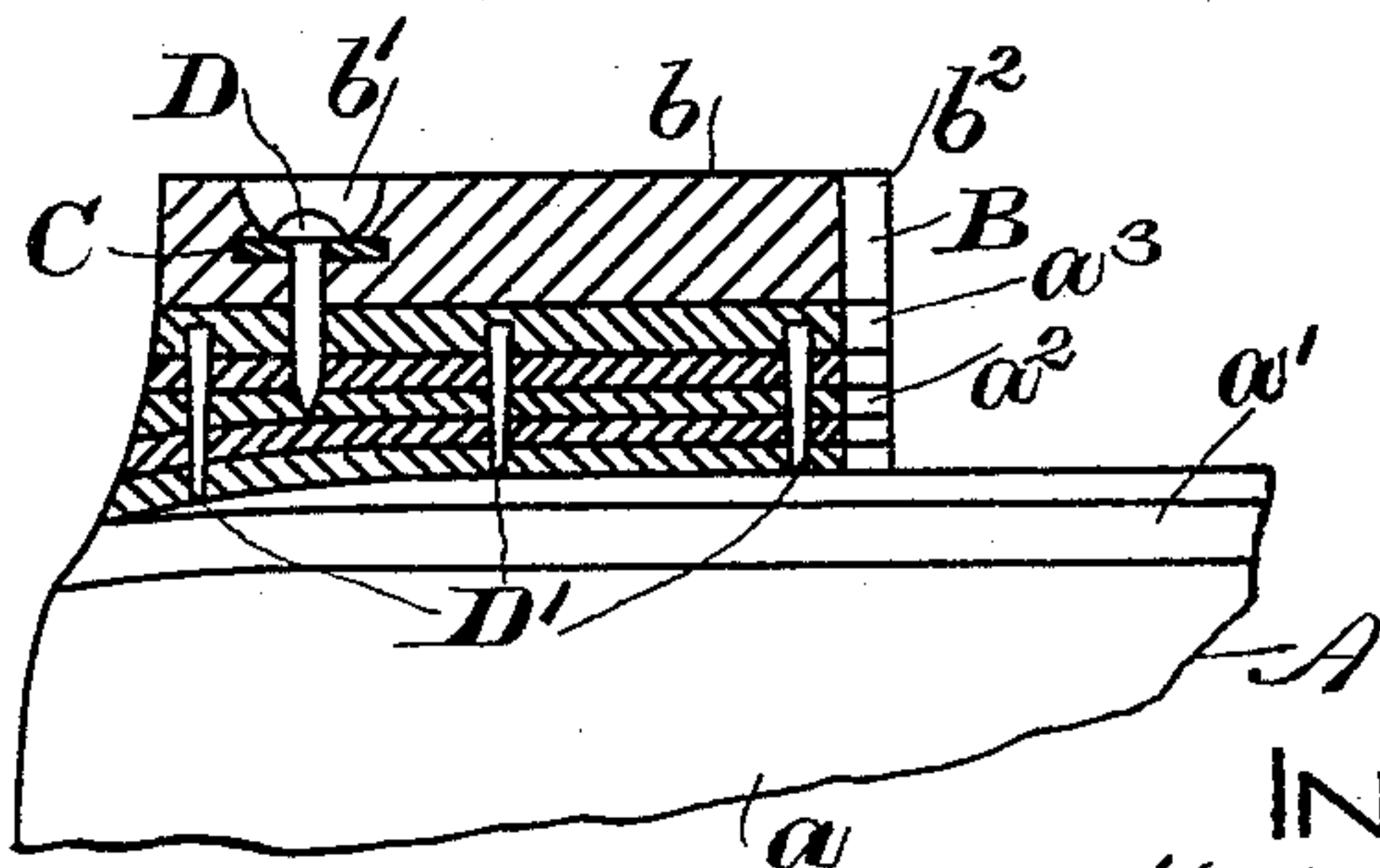
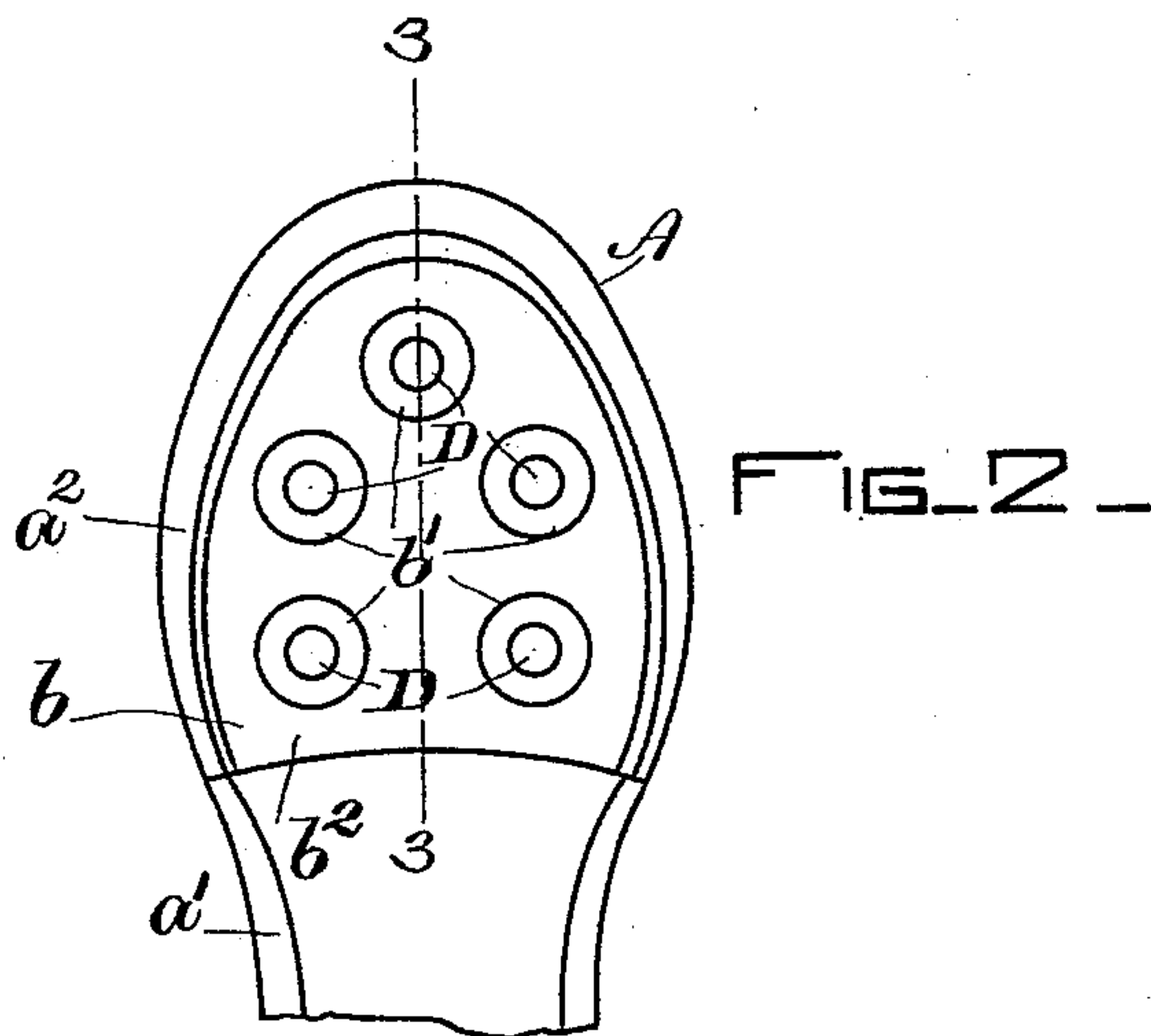
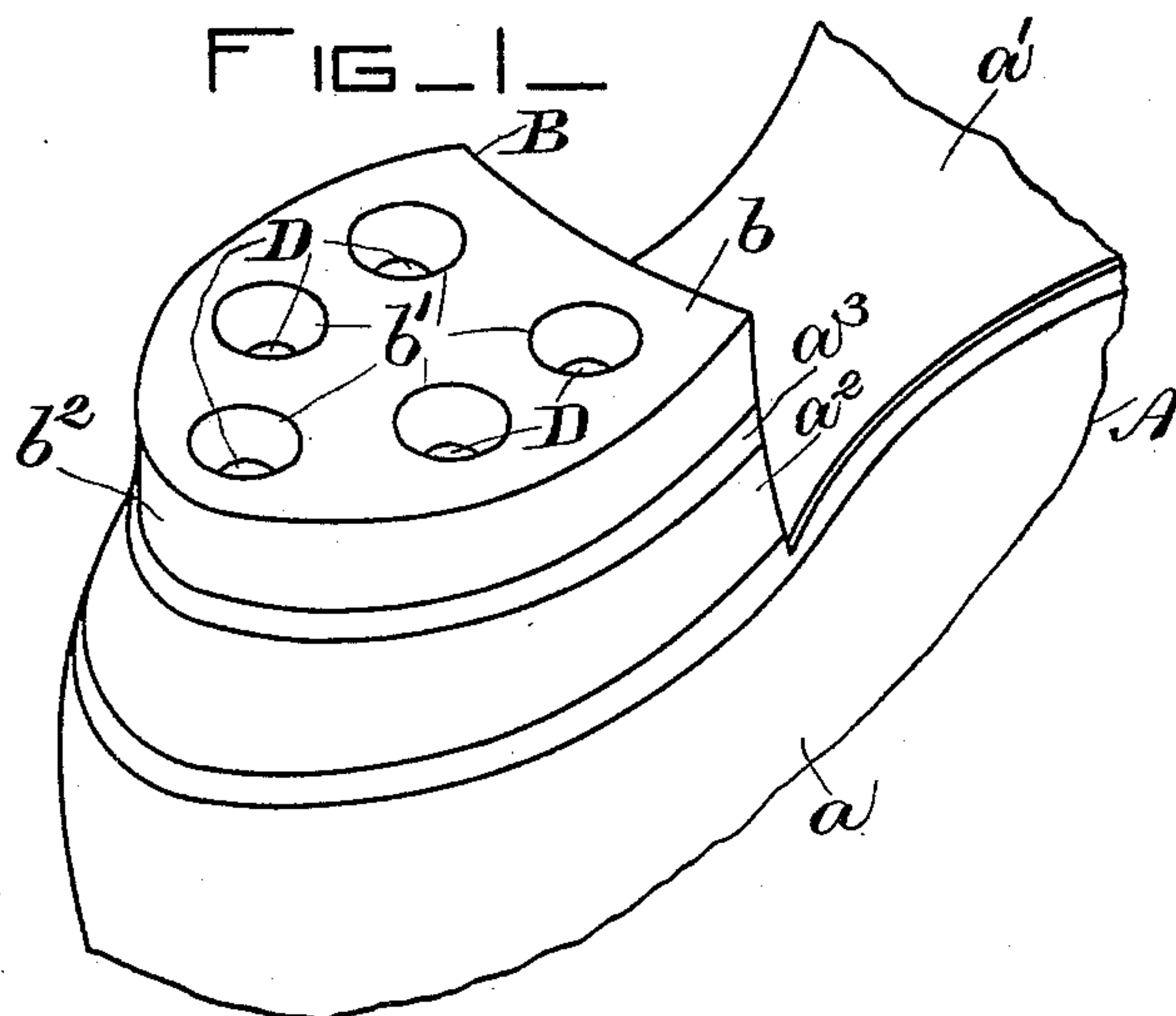
No. 618,127.

Patented Jan. 24, 1899.

H. O'SULLIVAN.  
HEEL FOR BOOTS OR SHOES.

(Application filed Nov. 21, 1898.)

(No Model.)



WITNESSES

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INVENTOR

Humphrey O'Sullivan  
By his attorneys,  
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# UNITED STATES PATENT OFFICE.

HUMPHREY O'SULLIVAN, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO  
O'SULLIVAN BROTHERS, OF SAME PLACE.

## HEEL FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 618,127, dated January 24, 1899.

Application filed November 21, 1898. Serial No. 697,043. (No model.)

*To all whom it may concern:*

Be it known that I, HUMPHREY O'SULLIVAN, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Heels for Boots or Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to heels for boots and shoes; and it consists in improved means, hereinafter described and claimed, of securing elastic cushions to heels in such a manner as to unite the edges of such cushions to the heels as closely as the edges of the contiguous lifts of a heel are commonly united to each other. Such cushions are commonly of rubber, and the securing means are placed at such distances from their sides and ends as to allow them in walking to separate slightly from the leather top lifts of the heel proper, leaving a crack which takes in the mud and filth of the streets and keeps the heels dirty. I avoid this by uniting the rubber cushion to a lift of leather by means of a cement insoluble in water, as the well-known rubber cement, so that when said lift is secured to the heel of the shoe there is no separation of the cushion and said lift, and when the latter is united to what was previously the top lift of the heel these two leather lifts are secured to each other as firmly as they would be if the cushions were not used.

In the accompanying drawings, illustrating the preferred form of my invention, Figure 1 is an isometric view of the lower rear part of a shoe, including the heel, with my invention applied thereto; Fig. 2, a reduced plan of the parts shown in Fig. 1; Fig. 3, a vertical longitudinal section of the heel of a shoe on the line 3 3 in Fig. 2, adjacent parts of the sole and upper of the shoe being shown in elevation, the parts being represented as inverted in all said figures.

The shoe A is of any usual construction, except as hereinafter stated, having an upper  $a$ , sole  $a'$ , and heel  $a^2$ , the body of said heel being formed in the usual manner of lifts of leather.

The cushion or top lift B is of a suitable

shape to conform to the outline of the heel, and consists of a leather lift  $a^3$ , to which is secured by rubber cement or other cement insoluble in water a thick lift  $b^2$ , of elastic material, as india-rubber. The elastic lift  $b^2$  may be solid, but as represented in the drawings is provided in its wearing-surface  $b$  with suction-recesses  $b'$ , the object of which is to cause the heel to adhere slightly to the surface walked upon. No claim is made in this application, however, to an elastic heel provided with suction-recesses, as such a heel is shown, described, and claimed in a pending application, Serial No. 619,971, filed by James O'Sullivan and myself as joint inventors January 20, 1897.

The principal means of securing the elastic cushion B to the heel are the nails  $D'$ , which unite the different lifts of the body of the heel proper,  $a^2$ , the large ends or heads of these nails  $D'$  being allowed to project from the body of the heel proper far enough to enter the leather lift  $a^3$  of the cushion B, which is hammered or crowded upon the heads of said nails in the usual manner followed in what is called "blind" nailing. The cushion B may further be secured in place by means of washers placed in the bottoms of the suction-recesses  $b'$ , as shown in said application Serial No. 619,971, or secured in the body of said cushion B concentrically with said recesses and by nails D or screws driven through said washers and through the leather lift  $a^3$  of said cushion into the heel  $a^2$ .

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

As an article of manufacture a heel for boots or shoes, comprising an elastic top lift having burs or washers embedded therein, and a leather lift, the top lift and leather lift being united by insoluble cement, the whole being adapted to be secured to the heel of a boot or shoe by nails passing through said embedded washers, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HUMPHREY O'SULLIVAN.

Witnesses:

FRANK H. PURRINGTON,  
HORACE VAN EVEREN.