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PATENTED MAY 17, 1904.

J. H. SANDMEYER.
VENTILATOR FOR BOOTS OR SHOES.

APPLICATION FILED AUG. 31, 1903.

NO MODEL.

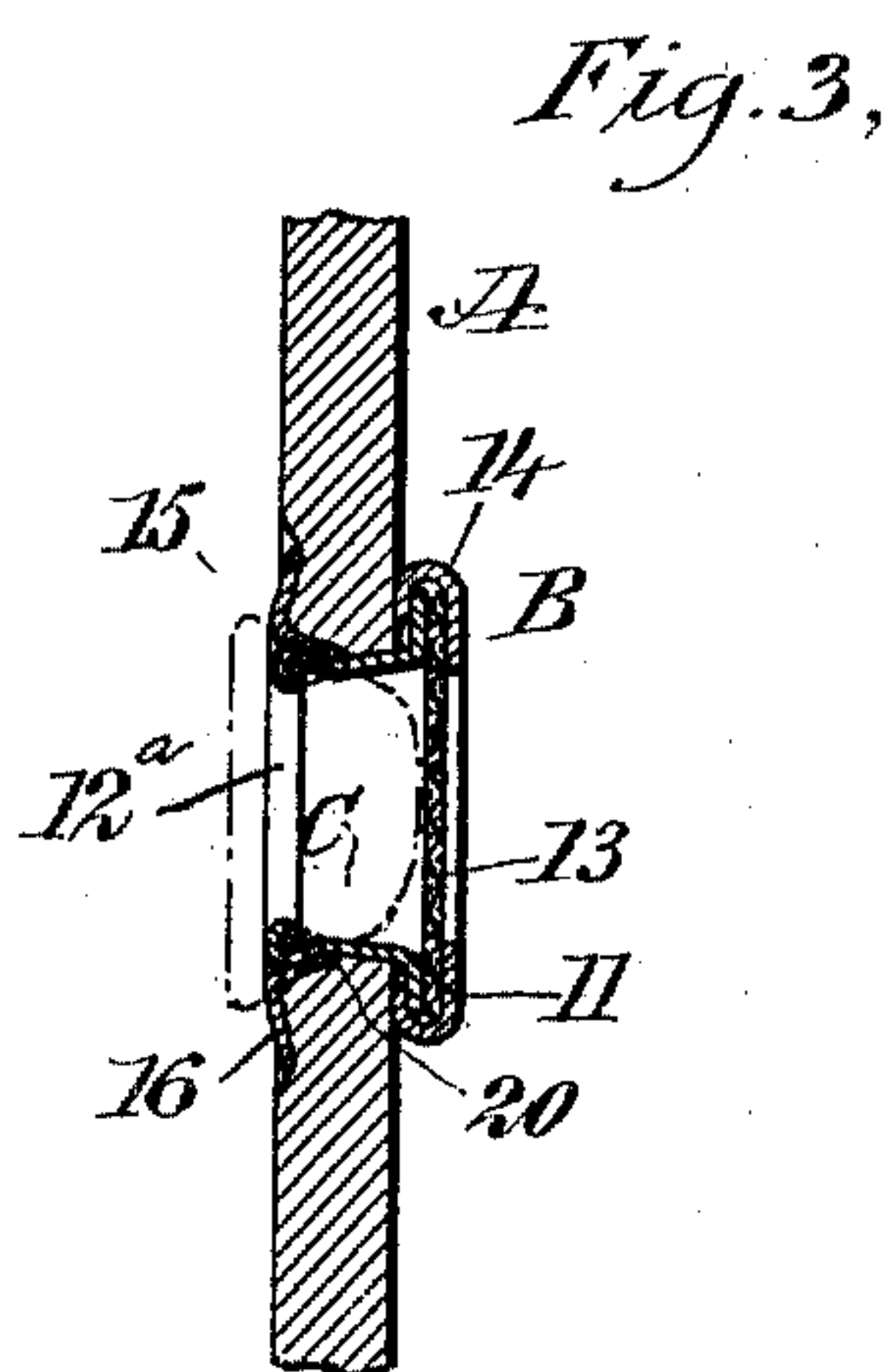
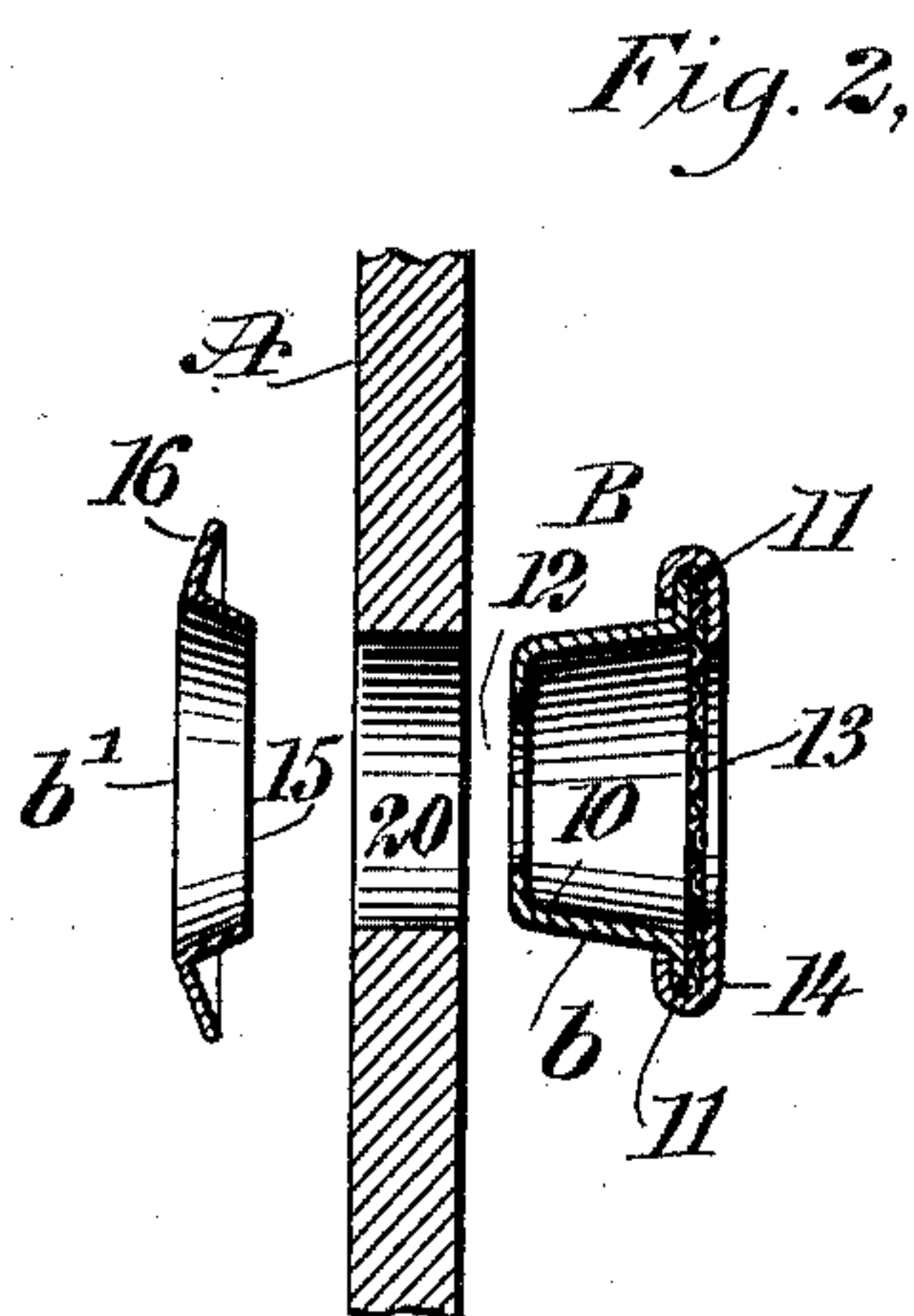
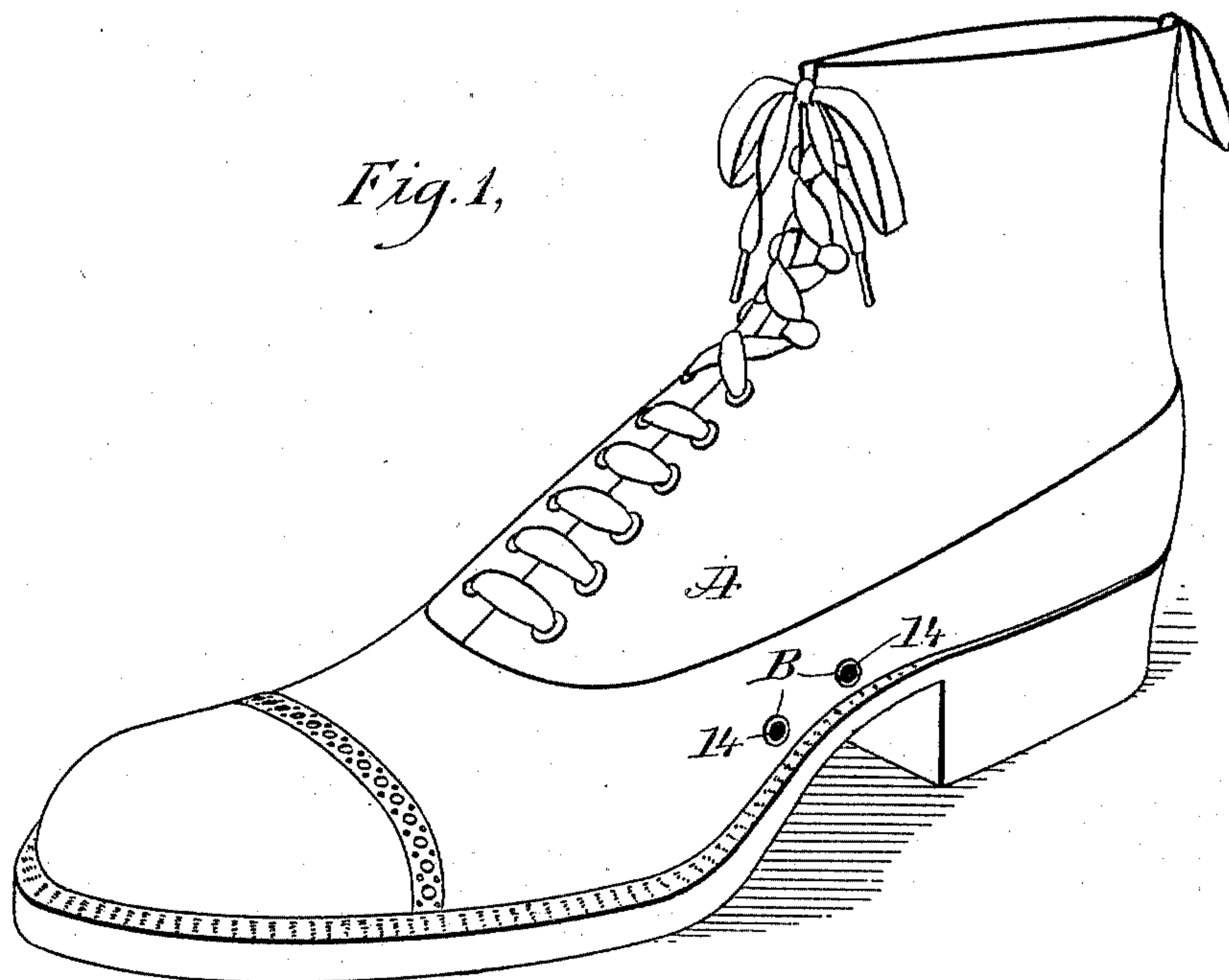
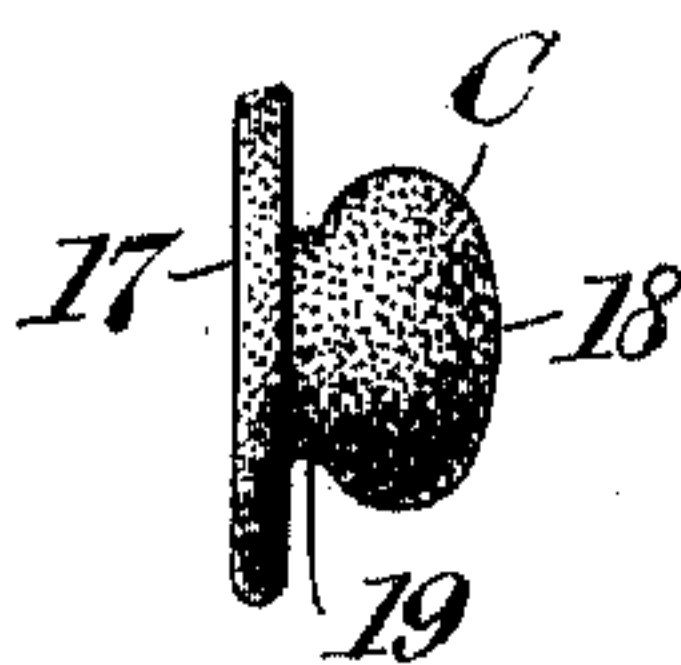


Fig. 4.



WITNESSES:

Edward Thorpe.
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INVENTOR
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BY *[Signature]*

ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN HENRY SANDMEYER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-THIRD
TO EDWIN E. SWIFT, OF NEW YORK, N. Y.

VENTILATOR FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 760,401, dated May 17, 1904.

Application filed August 31, 1903. Serial No. 171,335. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY SANDMEYER, a citizen of the United States, and a resident of the city of New York, borough of
5 Manhattan, in the county and State of New York, have invented a new and Improved Ventilator for Boots or Shoes, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide
10 a ventilator for the uppers of boots or shoes, preferably placed at the side near the sole, and to so construct the ventilator that it will be simple, durable, and readily applied and will not detract from the strength of the upper,
15 and, furthermore, to provide a perforated or reticulated front section for the ventilator, which while affording comparatively no resistance to the passage of air will serve to prevent small particles and in a great measure dust from entering the shoe.

Another purpose of the invention is to provide a ready, effective, and convenient means for closing the ventilator against the ingress of liquid when necessary.

25 The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying
30 drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a shoe having the improved ventilators applied. Fig.
35 2 is a section through a part of the upper of a shoe and through the improved ventilator, the parts of the ventilator being separated and the view being drawn on an enlarged scale. Fig. 3 is a section through a portion
40 of the upper of the shoe and the improved ventilator applied thereto, the stopper for the ventilator being shown in dotted lines; and Fig. 4 is a side elevation of the said stopper, adapted to enter the ventilator from the in-
45 side and prevent water from flowing into the shoe through the open parts of the ventilator.

A represents a shoe, and B the improved ventilator, shown applied to the shoe in Fig. 1 and in enlarged detail in Figs. 2, 3, and 4.

The ventilator B consists, practically, of a 50 main section *b* and a tubular clamping or fastening section *b'*. The main section *b* is substantially cup-shaped, and its body portion 10 is preferably provided with tapering sides, the bottom being closed except for a central 55 opening 12; and the said body of the main section *b* is provided at its front or outer end, which is entirely open, with a marginal flange 11, extending at right angles to its side portions. A wire-gauze 13 or a piece of reticu- 60 lated metal is made to engage with the flange 11, and a clamping-ring 14 is utilized to secure the said gauze or perforated material 13 to the aforesaid main section *b* of the ventilator, the said clamping-ring being bent over 65 upon the flange to engage properly with its rear or inner face, as is shown in Figs. 2 and 3.

The tubular fastening-section *b'* consists of a body 15, which is preferably in the shape of 70 the frustum of a cone, as is shown in Fig. 2, and a marginal flange 16, extending outward from the inner or larger end of the body, having more or less an inclination in direction of the material to which the said fastening-sec- 75 tion is to be secured.

In assembling the parts a suitable opening 20 is made in the upper of the shoe A, preferably adjacent to the welt, as is shown in Fig. 1. The body portion of the main section *b* of 80 the ventilator is then forced into the said opening 20, so that the end having the small opening 12 is at the inner face of the upper of the shoe and the overlapping portion of the clamping-ring 14 is in engagement with 85 the outer face of the upper of the shoe, as is shown in Figs. 1 and 3. Then the tubular fastening-section *b'* is passed into the opening 20 from the inside of the shoe, the body 15 of the said fastening-section receiving the re- 90 duced inner end of the body of the main section *b*, as is shown in Fig. 3. Finally, the edge of the smaller opening 12 is turned over, producing the inwardly-extending marginal flange 12^a, (shown in Fig. 3,) which is done 95 with any approved tool, and at the same time the metal at the flange is forced outward to clamping engagement with the flange 16 of

the fastening-section b' . Thus the device is firmly held in place, and the flange 12^a serves to hold a stopper C in place in the body of the device.

5 The gauze 13 serves to prevent any dust or small particles from entering the shoe through the opening 20.

In wet weather it is desirable that the main section b shall be closed, so that water cannot
10 enter the shoe. To that end I provide the stopper or plug C, preferably made of elastic material and which comprises a circular disk-like base 17 and a circular head 18, connected with the base by a suitable neck or shank 19.
15 When it is desired to close the ventilator, the head of the stopper or plug is forced into the body 10 of the main section b through the inner opening 12 in said section, as is shown by dotted lines in Fig. 3, and the stopper or plug
20 being of a pliable material and its base 17 quite thin the said stopper or plug when in position in the ventilator will not cause discomfort when the shoe is worn.

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

1. A ventilator for boots and shoes, comprising a cup-shaped main section having a central opening at its back or inner end, and an opening at its front or outer end, the said
30 outer end being provided with a marginal flange, an outer cover of perforated or reticulated material for the front opening and engaging the said flange, a clamping-ring bent over upon the flange to secure the cover in
35 position, the said ring being adapted to engage the outer surface of the material through which the main section is passed, and a tubular fastening-section having a tapering body

adapted to fit over the inner end of the body of the main section, and a marginal flange extending outwardly from the wider end of the tapering body, the flange being inclined in direction of the smaller end of said body of the fastening-section and adapted to engage the inner surface of the material through
45 which the main section is passed, the edge of the opening in the back of the main section being adapted to be turned over to form an inwardly-extending marginal flange, and the metal at the said flange extending outward
50 into clamping engagement with the fastening-section, as set forth.

2. A ventilator for boots and shoes, comprising a main section having a reticulated or perforated covering at its outer end and an
55 opening at its inner end, the edge of the opening at the inner end being turned over forming an inwardly-extending marginal flange, a fastening device for the said main section having a tapering body fitting over the inner end
60 of the main section, and a stopper or plug comprising a base and a head connected with the base and adapted to enter the opening at the inner end of the main section, the outer surface of the main section at the inner flanged
65 end being in clamping engagement with the fastening-section, and the inwardly-extending flange at said end serving to hold the stopper in place, as specified.

In testimony whereof I have signed my name
70 to this specification in the presence of two subscribing witnesses.

JOHN HENRY SANDMEYER.

Witnesses:

JOHN F. FLANAGAN,
ANDREW R. CLEXTON.