

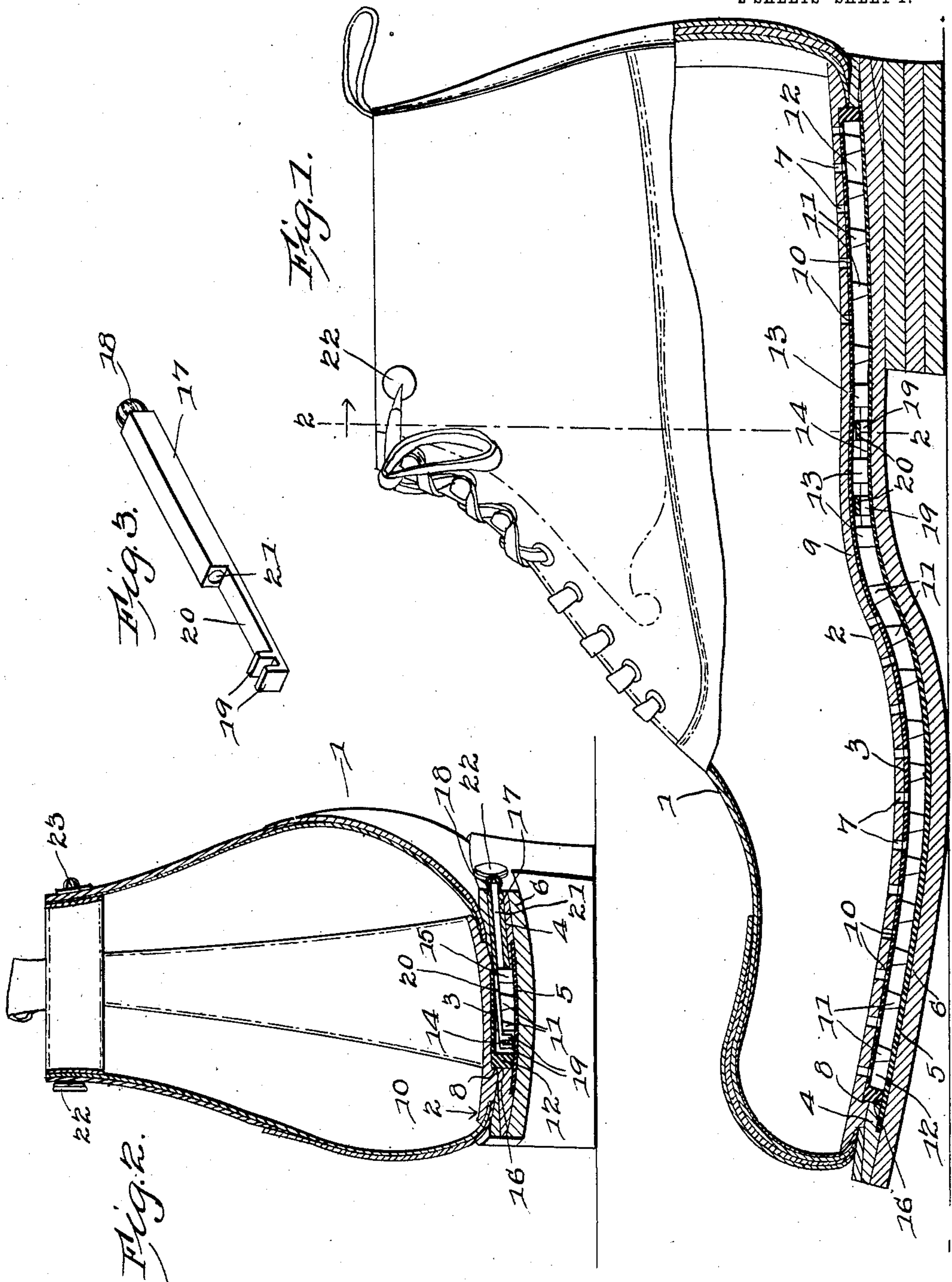
No. 829,428.

PATENTED AUG. 28, 1906.

J. PUMILIA.
SHOE.

APPLICATION FILED NOV. 17, 1905.

2 SHEETS—SHEET 1.



Witnesses:

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No. 829,428.

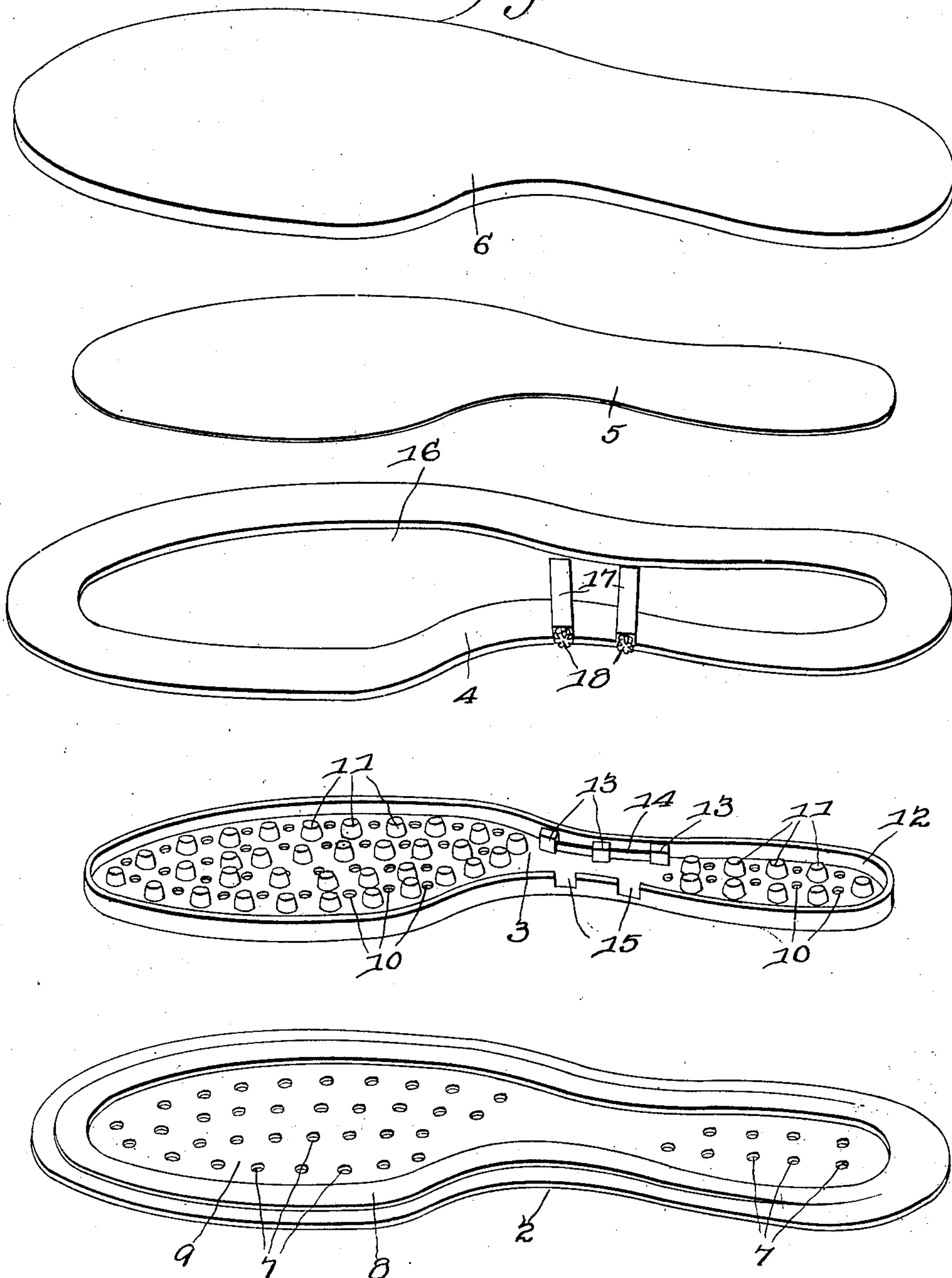
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2 SHEETS—SHEET 2.

Fig. 4.



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UNITED STATES PATENT OFFICE.

JACOB PUMILIA, OF ENSLEY, ALABAMA.

SHOE.

No. 829,428.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed November 17, 1905. Serial No. 287,848.

To all whom it may concern:

Be it known that I, JACOB PUMILIA, a subject of the King of Italy, residing at Ensley, in the county of Jefferson and State of Alabama, have invented a new and useful Shoe, of which the following is a specification.

This invention relates generally to shoes, and more particularly to that class that are adapted for ventilating the feet.

The object of the invention is to provide an article of footwear in which air may readily enter the shoe, and thus ventilate the foot and keep it dry, and in which, further, provision is made whereby moisture or water shall be prevented from entering the shoe.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a ventilating-shoe, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, Figure 1 is a view in elevation, partly in section, of a shoe equipped with the ventilating-sole of the present invention. Fig. 2 is a view in transverse section through the shoe on the line 2 2, Fig. 1. Fig. 3 is a perspective detail view of one of the air-supply tubes. Fig. 4 is a collective view in perspective exhibiting the various parts of the sole.

Referring to the drawings, 1 designates the shoe, which may be of the usual or any preferred construction, and therefore needs no detailed description.

The present invention resides in the novel form of ventilating-sole which is shown in detail in Fig. 4. This sole comprises a leather insole 2, a rubber insole 3, a runner 4, a rubber cover or seal 5, and an outer sole-lift 6. The insole 2 is constructed of leather and is provided at its toe and heel portions with orifices 7, of which there may be any desired number, and spaced as closely together as may be desired. The side of the insole 2, which will be the under one in use, is provided with an outstanding flange or bead 8, which extends from a point adjacent to the heel portion entirely around the insole and is inset from the edge, the inner wall of the bead defining a space or seat 9 to receive the rubber insole 3. This latter sole fits neatly within the seat 9 and is provided at its toe and heel portion with orifices 10 to register

with those in the insole 2. The sole and heel portion is also provided with closely-arranged lugs 11, which in this instance are shown as truncated cones, although this is not essential, as they may be of any other desired contour. The perimeter of the insole 3 has combined with it an outstanding flange 12, which is of a height to extend below the bead 8 for a purpose that will presently appear. The instep portion of the insole 3 is provided with three lugs 13, with which is combined a metallic keeper 14, in the nature of a strip of metal, and in the flange 12 and in alinement with the space between the lugs are formed two notches 15, the function of which will presently appear. The runner 4 is constructed of a piece of leather and has an opening 16 of the same contour and to receive the flange of the insole 3, the perimeter of the runner corresponding to the sole-lift 6. Secured to the instep portion of the runner in any preferred manner are a pair of air-tubes 17, one terminal of each of which is provided with a spring-catch 18 and its other terminal with a notch 19, adapted to straddle the keeper 14, and thus hold the tube against disconnection, that portion of the tube that is disposed within the shoe being cut away, as at 20, to expose the bore 21 of the tube, and thus allow free passage of air. The catch 18 is the same in character as that usually employed on gloves and is designed to be engaged by a cap 22, thus to seal the tube against ingress of water should the shoe not be otherwise protected by rubbers. The caps 22 engage spring-catches 23, secured to the sides of the uppers, as shown in Fig. 2, and are thus always in convenient reach of the user. The cover or seal 5 is constructed of a sheet of rubber and is cemented to the runner, and thus forms in conjunction with the insole 3 an air-chamber.

When the sole is assembled, as shown in Fig. 1, and the shoe is worn, the caps being removed from the air-tubes, the bending of the sole, due to the foot in walking, will alternately suck air into and expel it from the air-chamber. At the same time air will be forced out through the openings 7 and 10 against the under side of the foot of the wearer, thereby positively keeping the foot cool and preventing perspiration from forming.

Owing to the fact that the insole 3 is of rubber there will be no stiffness imparted to the shoe which will render it objectionable in

use, and as the perforations 7 in the insole 2 are small they will not in any way cause discomfort to the wearer.

Having thus described the invention, what is claimed is—

As an article of manufacture a cushion for insertion between the insole and the outer sole-lift of a shoe, said cushion comprising a rubber insole having openings therein and a
10 notched flange at its edge, a seal secured upon the flange, said seal, flange and insole forming a continuous air-compartment extending throughout the length and the breadth of the insole, resilient lugs within the
15 air-compartment and interposed between the

apertures and the insole, a runner surrounding the insole, air-tubes secured thereon, a keeper, and spring-catches upon the tubes and extending into and transversely of the air-compartment, said catches engaging the
20 keeper to hold the tubes against longitudinal movement.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JACOB PUMILIA.

Witnesses:

FRANK DEEDMEYER,
LEE WHITE.