No. 861,846. PATENTED JULY 30, 1907.

C. R. HENRICKS.

VENTILATING DEVICE FOR SHOES.

APPLICATION FILED SEPT. 14, 1904.

Fig. 1

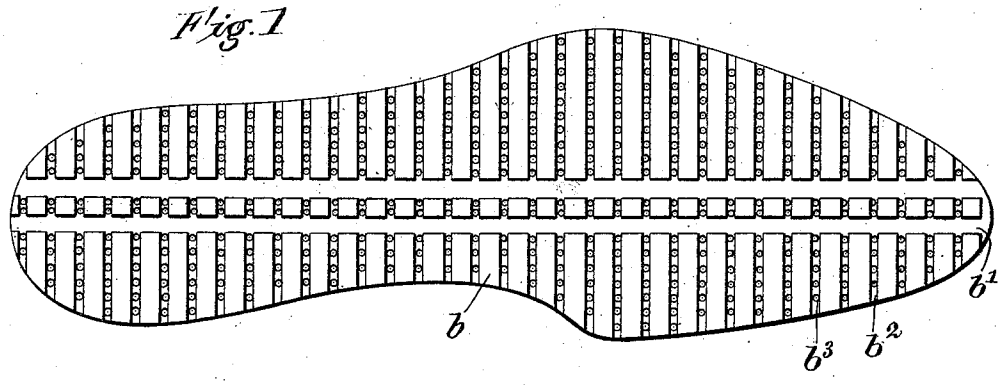


Fig. 2

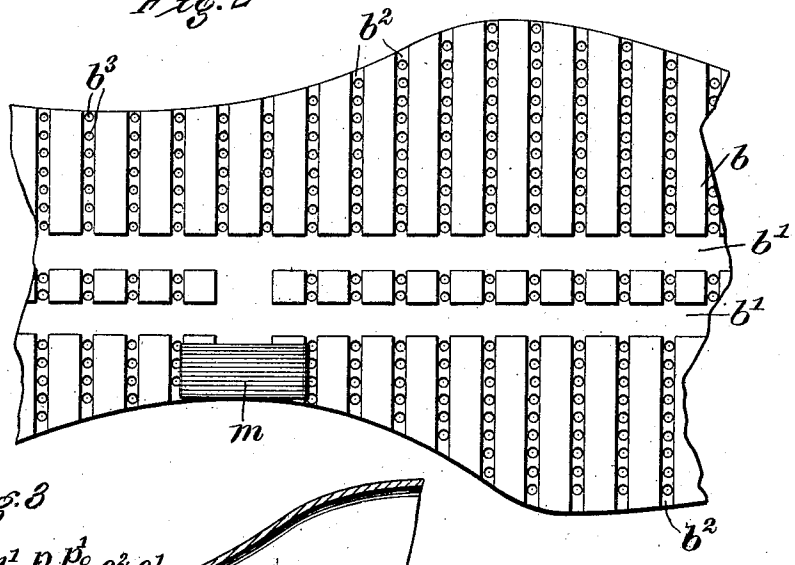


Fig. 3

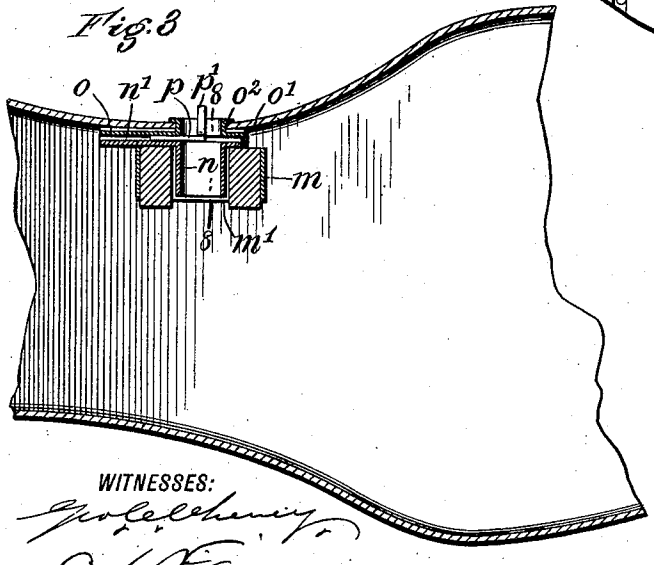
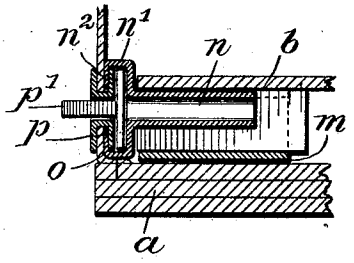


Fig. 4



WITNESSES:

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VENTILATING DEVICE FOR SHOES.

No. 861,846. Specification of Letters Patent. Patented July 30, 1907.

Application filed September 14, 1904. Serial No. 224,413.

To all whom it may concern:

Be it known that I, CHARLES ROY HENRICKS, a citizen of the United States, and a resident of Norristown, in the county of Montgomery and State of Pennsylvania, have invented a new and Improved Ventilating Device for Shoes, of which the following is a full, clear, and exact description.

My invention relates to a device for providing ventilation in the lower parts of shoes.

With this and other objects in view, my invention comprises a means for conducting air from one part of the bottom of the foot to another.

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

Figure 1 is a bottom plan view of an insole or pad constituting a portion of my invention; Fig. 2 is a fragmentary view similar to Fig. 1, of a preferred form of the insole or pad; Fig. 3 is a horizontal sectional view of a portion of a shoe, showing the interior thereof; and Fig. 4 is a sectional view on the line 8—8 of Fig. 3, on an enlarged scale.

a represents the sole of a shoe, which may be of any ordinary or desired construction, and may be formed of leather, rubber, or other material.

b represents an insole or pad which is provided with means for conducting air from one part of the shoe to another. This pad is preferably provided with longitudinal grooves b', and transverse grooves b^2 communicate therewith. Perforations b^3 are provided, and are preferably located in the transverse grooves, but may be placed at any desired points.

The underside of the pad or insole *b* is provided with a casing *m*, preferably of sheet metal, which is intended to guide and hold a plug *n*, which in the present form is shown in the shape of a flattened tube. This plug is mounted upon a plate n', which is provided with overlapping flanges n^2 engaging a plate *o* which is secured to the inside of the shoe by means of a hollow portion o' projecting through a hole in the shoe and provided with a flange o^2 upon the outside. The construction of the parts *o*, o' and o^2 is obviously similar to that of an eyelet. A plate *p* constituting a valve for closing the eyelet is located between the plates *o* and n', and is provided with a stem or handle p' projecting through the eyelet o' so that it can be reached by the wearer.

It will be obvious that the interior of the casing *m* communicates with the grooves in the bottom of the pad or insole, and the tubular plug *n* also communicates therewith; that air conducted through the grooves will be allowed to escape through the eyelet when the plate *p* is in open position, and that this plate may be closed to exclude moisture when desired. These parts are preferably located directly in the hollow of the instep on the side of the shoe, and in contact with the welt.

In the operation of the device, when the foot is raised in walking, it will be obvious that air will be drawn in, and when it is lowered, air will be forced out through the eyelet o'. In wet weather, the valve *p* may be closed so as to prevent the entrance of moisture.

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

1. A shoe having an insole or pad provided with means for conducting air from one part of the shoe to another, means for conducting air from said pad to the exterior of the shoe, said means comprising a hollow casing secured to said insole or pad, a hollow plug fitting in said casing and provided with a plate projecting therefrom, said plate having projecting flanges, a second plate in contact with said first-mentioned plate and secured thereto by means of said flanges, said last-mentioned plate having an eyelet integrally mounted thereon and secured to the wall of the instep of the shoe, and a valve located between said plates and adapted to close the passage in said eyelet, and provided with means for operating it from the outside of the shoe.

2. A shoe having an insole provided with longitudinal and transverse intersecting grooves, an eyelet in the side of the shoe and communicating with the grooves, and a valve for regulating the extent of the opening of the eyelet, said valve being provided with means outside of the shoe whereby to manipulate the valve.

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

CHAS. ROY HENRICKS.

Witnesses:
EMELINE HENRY HOOVEN,
H. WILSON STAHLNECKER.