

July 19, 1938.

M. L. BARAN

2,124,391

VENTILATED SHOE

Filed Jan. 6, 1937

Fig. 1.

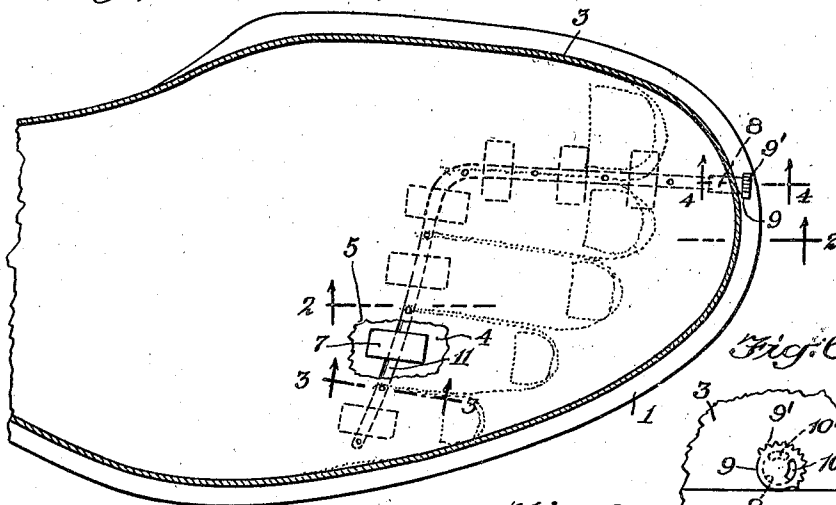


Fig. 6.

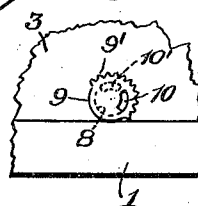


Fig. 2.

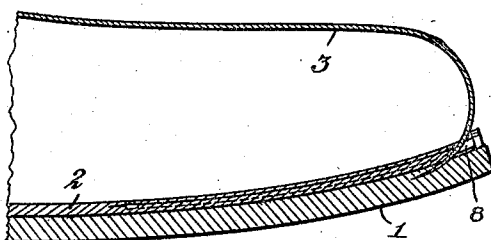


Fig. 3.

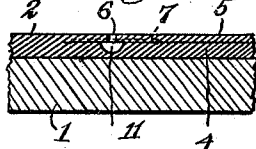


Fig. 4.

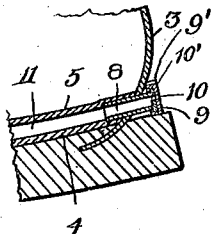
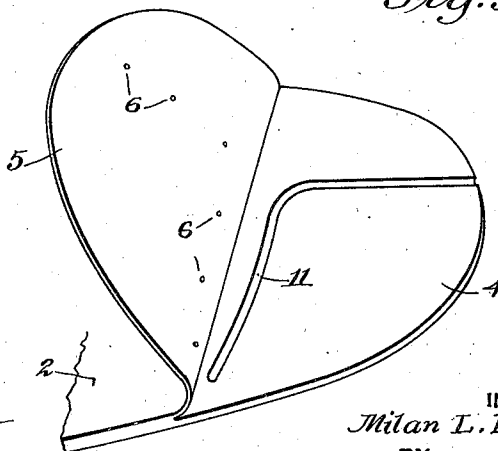


Fig. 5.



WITNESSES

Geos. Maylor
S. W. Porter

INVENTOR

Milan L. Baran

BY

Munn, Anderson & Liddy
ATTORNEYS

UNITED STATES PATENT OFFICE

2,124,391

VENTILATED SHOE

Milan L. Baran, South Orange, N. J.

Application January 6, 1937, Serial No. 119,253

1 Claim. (Cl. 36—3)

This invention relates to ventilated shoes, an object of the invention being to provide a shoe having in its insole a covered air groove or passage communicating with the outside of the shoe and having communication with the interior of the shoe beneath the joints of the toes.

A further object is to provide a shoe of this character embodying many novel features of construction and combinations and arrangements of parts, all of which will be more fully hereinafter described and pointed out in the appended claim.

In the accompanying drawing—

Fig. 1 is a sectional plan view of the forward portion of a shoe embodying my invention, and with a portion of the insole broken away to expose parts below;

Fig. 2 is a view in section on the staggered line 2—2 of Fig. 1;

Fig. 3 is an enlarged or exaggerated fragmentary view in section on the line 3—3 of Fig. 1;

Fig. 4 is an enlarged or exaggerated fragmentary view in section on the line 4—4 of Fig. 1;

Fig. 5 is a fragmentary perspective view of the forward end of the insole showing how the insole is split and the upper portion raised to expose the air groove or passage below; and

Fig. 6 is a fragmentary view in elevation on an enlarged scale, looking at the front end of the shoe.

My improved shoe embodies an outer sole 1, an insole 2, and an upper 3. The insole 2 is split or split from its toe or forward end inwardly the desired distance, as illustrated most clearly in Fig. 5 of the drawing.

In the lower portion 4 of the split insole 2, an air-circulating groove 11 is provided, which extends inwardly and longitudinally from the forward portion of the insole adjacent to the space occupied by the big toe of the wearer, and then this groove or passage extends laterally or transversely so as to lie under that portion of the shoe occupied by the toes and more particularly by the joints of the toes.

The upper or covering section 5 of the split insole is provided with perforations 6 which register with the groove 11 and permit air to circulate freely into and out of the shoe. Across the groove 11, between the perforations 6, small bridge pieces 7 are provided and secured in any

approved manner, and these bridge pieces serve to support the upper section of the split insole and prevent collapse into the groove.

At the forward or entrance end of the groove 11 a short nozzle 8 is located and projects through the upper 3 and constitutes an entrance and exit for air. To close this nozzle 8 in the event of rain or for any other reason to exclude water from the interior of the shoe, a rotary closure 9 is mounted on the end of the nozzle 8 and has an opening 10 therein adapted to register with a similar opening 10' in the end of the nozzle when turned to one position and to move away from said last mentioned opening to close the nozzle when moved to its other extreme position. To limit the turning movement of the closure, it is formed with serrations 9' extending throughout a portion of its periphery, which are so located that they will engage the sole 1 of the shoe and prevent turning movement of the closure beyond the desired distances.

It is, of course, to be understood that the two split sections 4 and 5 may be secured one upon the other with any suitable adhesive, and it will be noted that the surface of the insole is left smooth and without obstruction when the shoe is completed and ready for use.

While I have illustrated and described what I believe to be preferred embodiments of my invention, it is obvious that various slight changes may be made with regard to the form and arrangement of parts without departing from my invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the claim.

I claim:

The combination of a shoe having an insole, said insole being split from its toe portion inwardly, the lower portion of the split insole having an air inlet groove in its upper face communicating at one end with the outside of the shoe, said groove being located in that portion of the insole occupied by the toes of the wearer and the upper portion of the split insole having perforations therein communicating with the groove, and bridge pieces extending over the groove and located between the split portions of the insole and between the perforations.

MILAN L. BARAN. 50