

E. Thomas,

Ventilating Boots and Shoes.

N^o 80518.

Patented July 28, 1868.

Fig. 1.

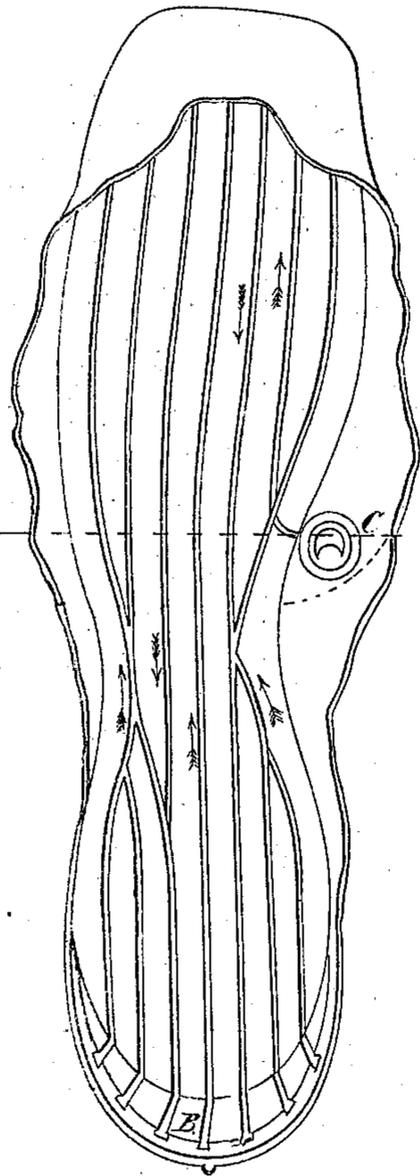


Fig. 2.

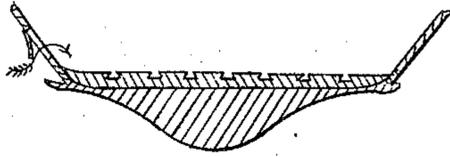


Fig. 3.

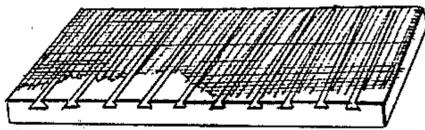


Fig. 4.

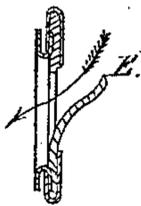
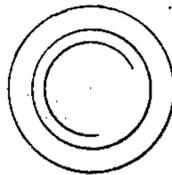


Fig. 5.



Witnesses:

*J. H. Andrews
C. W. Vergman*

Inventor.

Edwin Thomas.

United States Patent Office.

EDWIN THOMAS, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 80,518, dated July 28, 1868.

IMPROVEMENT IN VENTILATING BOOTS AND SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWIN THOMAS, of Philadelphia, in the county of Philadelphia, and State of Pennsylvania, have invented Improvements in Ventilating Boots and Shoes; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 shows the inner sole of a boot or shoe with ventilating-grooves to allow the air to pass through the shoe under the foot, and up through the counter or heel-piece B, or through the valve, as shown at letter *a* in fig. 1.

Figure 2 is a section of the sole and ventilator, as shown at letter *a* and the red line.

Figure 3 represents a piece of leather manufactured for inner soles, with dove-tail grooves, and a porous cover to allow the air to pass through to the foot, and is intended to keep the dirt out of the ventilating-grooves.

Figure 4 is a section of the ventilating-valve *a* open to admit air.

Figure 5 shows the valve closed to keep out water and dirt.

The nature of my invention consists of ventilating boots and shoes by means of a gum-elastic flap-valve fitted to an eyelet-hole in the upper leather, as shown at letter *a*, fig. 1, and by cutting grooves in the sole or sole-leather, that is narrow at the top and wide below, so that the air can pass along the grooves and up the counter or heel-piece. By this means the sole and the air in the grooves act as a cushion for the foot, and it can be grooved on both sides, so that the air can pass under the sole and up back of the counter, or to the valve in the upper leather. The object of the flap having a bevelled end, as shown at letter *e*, fig. 4, is to act as a catch, when shut, to hold the flap in its proper place.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. Ventilating boots and shoes by grooving the inner soles with grooves that are narrow at the top and wide below, so as to allow the air to pass along the grooves, as herein described, and for the purposes set forth.
2. The manufacture of leather for inner soles of boots and shoes, with grooves of a dove-tail shape, and a porous cover, for the purposes as specified.

The above specification of my said invention signed and witnessed at Philadelphia, this 2d day of June, A. D. 1868.

EDWIN THOMAS.

Witnesses:

JOHN A. HURLEY,
T. H. ANDREWS.