(No Model.)

M. V. BARNEY.

RUBBER SHOE.

No. 369,766. Patented Sept. 13, 1887.

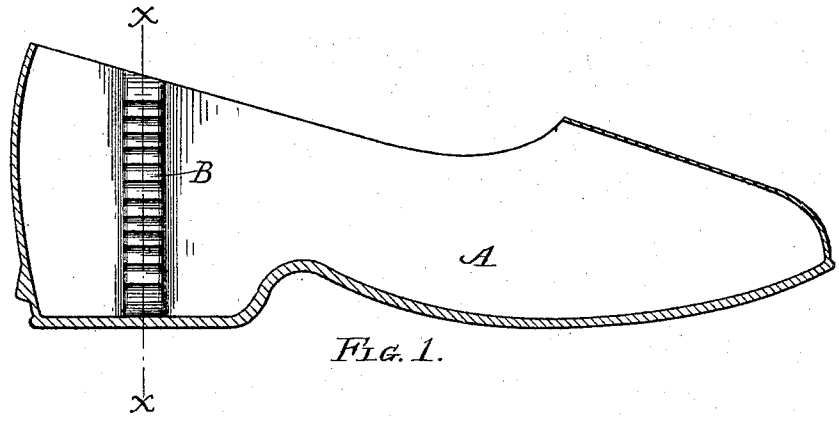

FIG. 1.

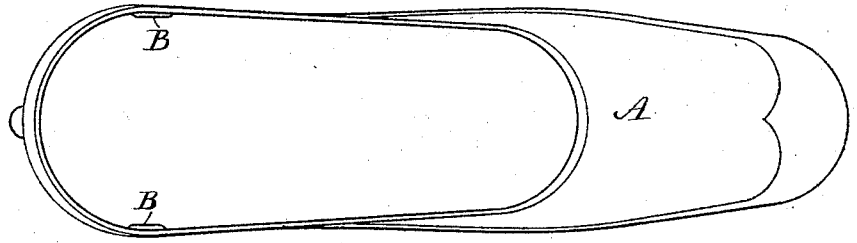

FIG. 2.

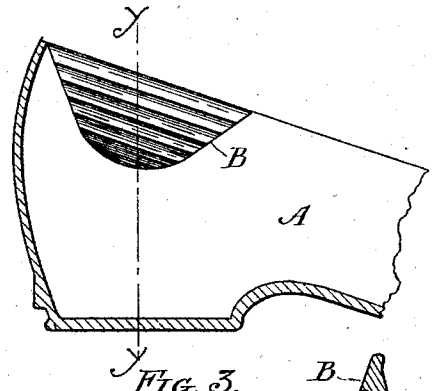

FIG. 3.

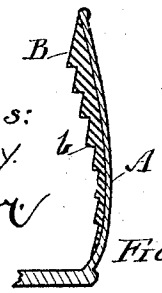

FIG. 4.

FIG. 5.

Witnesses:
J. B. Halpenny.
M. M. Gridley.

Inventor:
Martin V. Barney
By Bradley & Fletcher
his attys.

UNITED STATES PATENT OFFICE.

MARTIN V. BARNEY, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO DANIEL M. HYNDS, OF SAME PLACE.

RUBBER SHOE.

SPECIFICATION forming part of Letters Patent No. 369,766, dated September 13, 1887.

Application filed November 15, 1886. Serial No. 218,841. (No model.)

To all whom it may concern:

Be it known that I, MARTIN V. BARNEY, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Rubber Shoes, of which the following is a description, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a vertical longitudinal sectional view of a rubber having one form of my improved fastening device formed therein. Fig. 2 is a plan view of a rubber, showing said devices therein. Fig. 3 is a longitudinal sectional view of a part of a rubber, showing a modification of said device. Fig. 4 is a transverse vertical sectional view upon the line *x x*, Fig. 1; and Fig. 5 is a like view upon the line *y y*, Fig. 3.

Like letters of reference indicate like parts in the different figures.

The object of my invention is to provide a simple, cheap, and effective means for preventing rubber overshoes from coming off from the feet when worn in the mud, which I accomplish substantially in the manner hereinafter more particularly described, and definitely pointed out in the claims.

In the drawings, A represents a rubber overshoe, within which, upon the respective sides of the heel, I preferably attach serrated or roughened pieces, B, of rubber, leather, cork, or any suitable material capable of retaining a friction-surface, but preferably rubber. Said pieces may consist of narrow strips extending from the top to the bottom of the shoe, upon each side of the heel, as shown in Figs. 1 and 2, or of an elongated piece attached near the top and upon the respective sides of the heel, in the manner shown in Fig. 3, or by simply thickening the side of the shoe at that point, as in Fig. 5. In either event the construction should be such as to produce a considerable thickness at or near the top of the shoe, the same being gradually tapered or made thinner toward the bottom, in the manner shown in Figs. 4 and 5. By means of this construction the thickened portions B B are, by the tension of the rubber, pressed into and against the narrow portion of the heel upon the respective sides and somewhat below the ankle-joint, so that the bulge or enlarged portion of the heel is grasped or clamped thereby, and the rubber is wholly prevented from coming off while worn. I prefer that the said pieces B shall be roughened in the form of saw-teeth, *b*, Figs. 4 and 5, as tending to produce a stronger frictional contact; but any form of roughening or abrading the surface may be employed, or the pieces may be left smooth, if preferred, without materially lessening the advantages of my invention.

One of the advantages, as applied to winter overshoes, is that said pieces occupy but a small surface, while all of that remaining may be covered with felt or wool, thus materially increasing the warmth of the shoe as compared with those shoes in common use in which the entire portion surrounding the heel is lined with rubber. A further advantage, especially of the construction shown in Fig. 3, is that the top of the shoe is, by means of the additional tension which the parts B B produce, caused to fit closely to the foot, and thus protect it more perfectly.

I am aware that it is old to make overshoes with the inner surface ribbed or corrugated, for the purpose of allowing a circulation of air between it and the boot or shoe over which it is worn. I am also aware that it is old to attach a corrugated strip of rubber at the back and inner upper face of the heel; but I do not claim either of these constructions.

What I do claim, and desire to secure by Letters Patent, is—

An overshoe provided with inwardly-projecting rubber protuberances upon the respective sides, within the shoe, at points below the ankle-joint, they being substantially in the same vertical plane and above the bulge of the heel, whereby the tension of the shoe-top causes said protuberances to press inwardly and clamp upon the sides of the heel, substantially as and for the purposes set forth.

MARTIN V. BARNEY.

Witnesses:
D. H. FLETCHER,
M. M. GRIDLEY.