A. T. SCHERMERHORN.

RUBBER BOOT OR SHOE.

(Application filed Jan. 13, 1902.)

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

C. Kesler.

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AUGUSTUS T. SCHERMERHORN, OF NEWHOPE, PENNSYLVANIA.

RUBBER BOOT OR SHOE.


Application filed January 13, 1902. Serial No. 89,578. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS T. SCHERMERHORN, a citizen of the United States, residing at Newhope, in the county of Bucks and State of Pennsylvania, have invented new and useful Improvements in Rubber Boots or Shoes, of which the following is a specification.

My invention relates to rubber boots and shoes having outer leather or wearing soles, and has for its object an improvement in the manner of securing the leather sole to the upper portion of the boot or shoe.

In order that my invention may be fully understood, I have illustrated the same in the accompanying drawings, wherein—

Figure 1 is a cross-section through the inner rubber sole. Fig. 2 is a similar view showing the upper and stay-strap secured to said sole, and Fig. 3 is a cross-section through the completed boot or shoe.

Referring now to the drawings, 1 indicates the inner sole, which is of rubber and has secured to its under side at a suitable distance from its outer edge a rib 2, extending entirely around the sole and following the contour thereof. This rib may be made of rubber or rubber compound; but preferably it would have combined with its composition a suitable fabric to give additional strength. As shown by Fig. 1, a portion of the sole projects beyond the rib, as indicated by 3.

4 indicates the upper, which is of rubber-coated fabric, as usual. As shown by Fig. 2, said upper has its edge portions turned under to embrace the edge and under side of the projection 3 of the sole and to extend part way over the rib 2, which it also closely embraces.

5 indicates a stay-strap of rubber-coated fabric, which is secured at one edge portion to the under side of the sole 1 and at its other edge portion to the rib 2.

6 indicates the ordinary sock-sole.

As thus far constructed the boot or shoe is in an unvulcanized condition, and the rubber being "raw" the parts placed together as described will firmly adhere, as is well understood. The boot or shoe in the condition described is now vulcanized and the parts inseparably united. A welt 8 is now secured to the rib 2 by means of stitching 9, passing through the stay-strap 5, the rib 2, and the part of the upper vulcanized to said rib. The outer leather or wearing sole 10 is now stitched to the welt, as shown at 11, a suitable filling 12 being interposed between the inner sole 1 and the outer sole 10. The advantages of the construction described will be at once apparent to those skilled in the art. The upper being vulcanized to the sole 1 and rib 2 no moisture can pass to the interior of the boot or shoe. Should the stitching 9 break, the upper would still remain firmly attached to the sole 1 and rib 3, and the body of the shoe would therefore remain intact. There is no stitching passing to the interior of the shoe or boot, and hence no way by which moisture can be conveyed to said interior. Finally, the boot or shoe can be readily half-soled at any time in the same manner as practiced with an ordinary leather boot or shoe.

Instead of applying the welt 8 to the shoe after vulcanization I may sew the welt to the 75 rib before vulcanizing the shoe, so that while the shoe is vulcanized the welt will be further secured by being vulcanized to the upper. Further, if the filling 12 employed be rubber I would apply this filling to the inner sole before vulcanization, so that it would be vulcanized to the inner sole and over the stay-strap 5, and thus materially add to the strength of the shoe.

Having thus fully described my invention, I claim as new is—

1. A rubber boot or shoe comprising in its construction an inner rubber sole provided on its under side adjacent to its edge with a rib, an upper having its edge portions vulcanized to said sole and said rib, a welt secured to said rib, and an outer leather sole secured to said welt.

2. A rubber boot or shoe comprising in its construction an inner rubber sole provided on its under side adjacent to its edge with a rib, an upper having its edge portions vulcanized to said sole and to the outer side of said rib, a stay-strap secured to said sole and to the inner side of said rib, a welt secured to said rib, and an outer leather sole secured to said welt.

3. A rubber boot or shoe comprising in its construction an inner rubber sole provided
on its under side adjacent to its edge with a rib, an upper having its edge portions vulcanized to said sole and said rib, a welt secured to the rib by means of stitching passing through the rib and the portion of the upper Vulcanized thereto, and an outer leather sole secured to said welt.

4. A rubber boot or shoe comprising in its construction an inner rubber sole provided on its under side adjacent to its edge with a rib, an upper having its edge portions vulcanized to said sole and to the outer side of said rib, a stay-strip secured to said sole and to the inner side of said rib, a welt secured to the rib by means of stitching passing through said stay-strip, said rib, and the portion of the upper vulcanized thereto and an outer leather sole secured to said welt.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

AUGUSTUS T. SCHERMERHORN.

Witnesses:

ALFRED S. GOODFELLOW,
CHAS. H. SCHERMERHORN.