

No. 822,692.

PATENTED JUNE 5, 1906.

F. F. SCHAFFER.
RUBBER BOOT.

APPLICATION FILED JAN. 11, 1906.

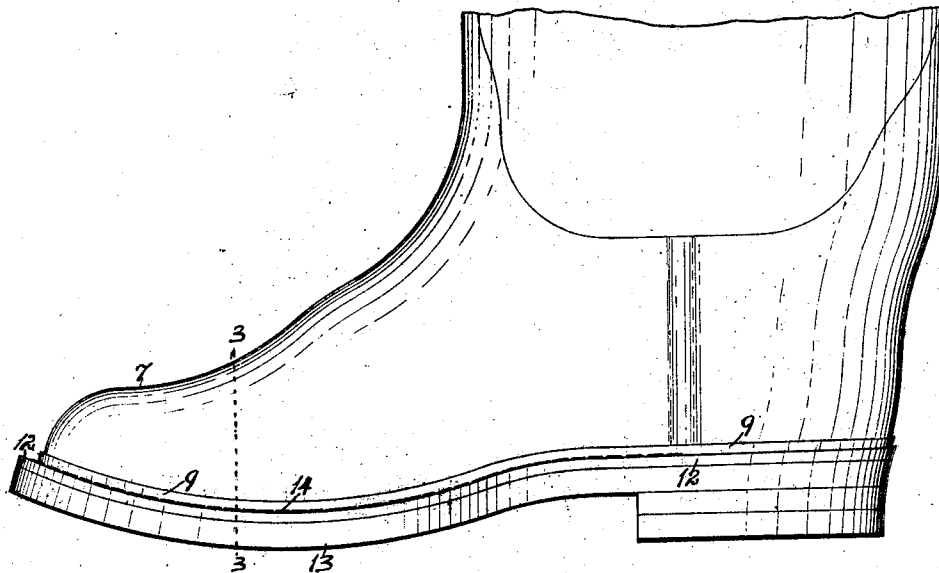


Fig. 1.

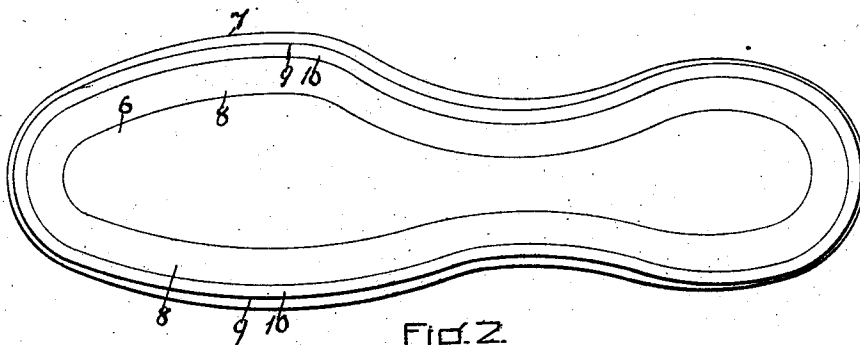


Fig. 2.

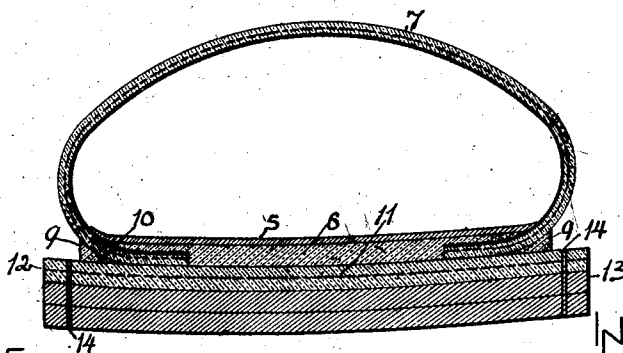


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

FREDERICK F. SCHAFER, OF NAUGATUCK, CONNECTICUT, ASSIGNOR TO RUBBERHIDE COMPANY, A CORPORATION OF MASSACHUSETTS.

RUBBER BOOT.

No. 822,692.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed January 11, 1906. Serial No. 295,669.

To all whom it may concern:

Be it known that I, FREDERICK F. SCHAFER, of Naugatuck, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Rubber Boots; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in rubber boots or shoes, and particularly to that class of rubber boots or shoes having extension or welt soles to which outer wearing-soles are attached.

One object of the invention is to strengthen the boot or shoe at the juncture of the extension or welt sole with the upper.

Another object of the invention is to so construct a rubber boot having a welt-sole member that the entrance of matter of any kind liable to injure the upper between the welt and the upper is prevented.

Another object of the invention is to so construct a boot or shoe of this nature that resistance is offered to prevent undue curling upward of the welt to which the outer wearing-sole is to be attached.

Another object of the invention is to supply a resistance to the undue flattening out of the upper.

The invention consists in the peculiar features of construction and combination of parts, as shall hereinafter be more fully described, and pointed out in the claim.

Figure 1 represents a side elevation of the improved boot. Fig. 2 represents a bottom plan view of the partially constructed boot, showing the location and arrangement of the improved strengthening and wearing reinforce-strip. Fig. 3 represents a cross-sectional view taken on line 3 3, Fig. 1.

Similar numerals of reference designate corresponding parts throughout.

As this invention relates particularly to improvements in rubber boots or shoes having intermediate extension or welt soles to which extensions or welts the outer wearing-soles, preferably of leather, are secured by mechanical means, such as by sewing, the following description will be directed to such a structure without thereby limiting the invention to the features specifically described.

In carrying this invention into practice the

improved boot is constructed on a last, as is usual and well known. After the application of the insole 5 and the rubber filling-sole 6 to the last the upper or vamp 7 is built onto the last in the ordinary manner and its edges 8 8 are turned over the rounded edge of the last and secured to the filling-sole 6 with rubber-cement. This upper is constructed of combined layers of sheet-rubber and textile fabric, as is usual in this art; the outer layer being preferably of rubber. On the convex edge portion of this turned-in portion of the upper is now secured with rubber-cement or rubber solution the reinforce, strip 9, preferably approximately triangular in cross-section, as shown in Fig. 3 of the drawings, and preferably extending around the entire sole and heel portion of the intumed parts of the upper, as shown in Fig. 2. The lower surface 10 of this reinforce-strip 9 extends approximately in the same plane as the corresponding surface of the sole 6, while the outer exposed edge is practically vertical to such extension. The middle sole 11 is preferably formed of combined layers of rubber and cloth secured together with rubber-cement and has the welt or extension 12 extending beyond the convex portions of the upper. When now this sole 11 is applied to the surface of the sole 6 and cemented thereto, the surface 10 of the reinforce-strip 9 forms an extension-support, which resists the tendency of the welt portions of the sole 11 to curl toward the curve of the upper or vamp 7 when said sole 10 is rolled down. The sole 11 being also cemented to such surface 10 of the strip 9 becomes there- by more effectually secured to the upper by the additional body of rubber as well as by the increased area of surface presented by the surface 10.

The outer wearing-sole 13, generally of leather, is now attached to the surface of the sole 11 by rubber-cement and along its edge portions to the extension or welt 12 by mechanical means, preferably by the sewing-stitches 14 14, reference to Fig. 3 of the drawings indicating that the reinforce-strip 9, while offering increased surface for the securing of the sole 11 to the upper, does not interfere with the sewing of the sole 13 to the extension or welt 12. Reference to Fig. 3 will also indicate that while the upper 7 is flexible to the line of the sole of the foot said upper is supported out of wearing contact with the

stitches 14 14, while the additional rubber in the strip 9 prevents the tearing away of the upper 7 from the sole 11 and acts as an excluder to prevent the entrance of sand, gravel, or other material liable to cut or otherwise injure the upper between the welt and said upper.

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

A rubber boot comprising a welt-sole, an upper secured thereto and a rubber reinforce-

strip located in the angle formed on the exterior of the boot by the adjacent surfaces of the welt and upper beyond their point of juncture and secured to said faces, and extending around the sole.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK F. SCHAFFER.

Witnesses:

LEON M. WOODFORD,
ERNEST W. SIMMONS.