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1,469,291

D. BOJTOS

WATERPROOF BOOT

Filed May 18, 1922

FIG. 1

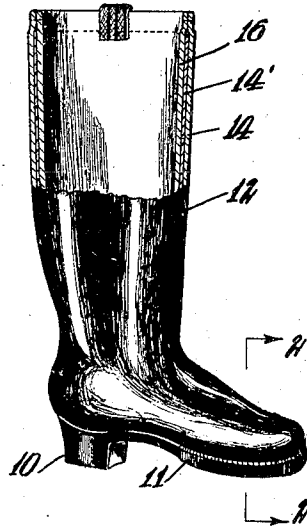


FIG. 2

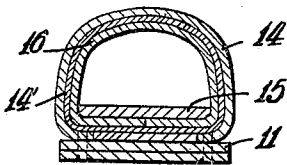
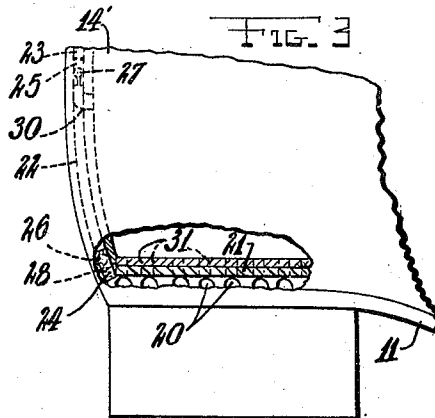


FIG. 3



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DEZSÖ BOJTOS, OF ROEBLING, NEW JERSEY.

WATERPROOF BOOT.

Application filed May 18, 1922. Serial No. 561,796.

To all whom it may concern:

Be it known that I, DEZSÖ BOJTOS, a citizen of Czechoslovakia, residing at Roebling, in the county of Burlington and State of New Jersey, have invented certain new and useful Improvements in Waterproof Boots, of which the following is a specification.

This invention relates to boots and shoes being intended more particularly for embodiment in boots, such as are worn by miners, lumbermen or other laborers.

The invention has for an object to provide a novel construction of water proof boot, and one also having proper provision for ventilation.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawings is a side elevation, partly in vertical section, of a boot constructed according to my invention.

Fig. 2 is a transverse vertical sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary longitudinal vertical section showing the boot provided with ventilating means.

Referring now to Figs. 1 and 2, the boot is of ordinary outline and is here shown as the non-lacing type and comprises a heel 10, sole 11, and an upper, indicated generally at 12, and comprising the usual foot and leg engaging portions. The boot upper consists of an outer member 14 of heavy leather such as oak tanned cowhide, in which is a waterproof lining 14' made from the bladder of a steer or pig, this lining extending also across the sole 11 under the insole 15, the sole 11 being secured to this upper member 15 by means of wooden pegs. The water proof lining is in turn covered on the inside with a lining 16 of sheep skin. With this construction I provide a thoroughly water proof boot.

In Figs. 3 and 4 of the drawings I have indicated a means for ventilating my improved boot, or other types of water proof boot. As here shown the main sole 11' of the shoe has projecting upwardly therefrom a series of studs 20 of rubber which are spaced evenly throughout the sole. Upon these studs an insole rests 21. Leading

downwardly through the back of the boot upper 14' from the top edge thereof are a pair of tubes 22 and 23 respectively which may be of rubber wound with wire. The lower ends of these tubes have attached thereto valve casing 24 and 25 in which are ball valves 26 and 27 respectively, the valve 26 being arranged to allow air to escape from the tube 22 into the boot but prevent air escaping from the boot into the tube 22, being pressed upwardly to closed position by a spring 28, while the valve 27 allows air to escape from the boot into the tube 23 but prevents contrary action.

The lower ends of the tubes are open, tube 22 registering with the space between the insole 21 and main sole 11', while tube 23 communicates as indicated at 30 with the interior of the boot at a distance above the heel. As will be apparent, when the weight of the person wearing the boot rests on the insole 21 the studs 20 will be compressed, forcing the air thereunder up around the sides of said insole, which are notched as at 31, around the foot and out through the tube 23, while, when the foot is raised and the weight taken off the insole the studs 20 expand, and the air rushes from tube 22 into the space under the insole to be subsequently expelled as the weight again rests on the sole.

Having thus described my invention what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. In a water proof boot, a main sole, an insole resiliently supported above said main sole, and a pair of tubes leading downwardly through the wall of the boot and communicating respectively with the space under said insole and the interior of the boot at a distance above the insole, said tubes having one-way valves therein operating oppositely for the respective tubes.

2. In a water proof boot, a main sole having a series of rubber studs projecting upwardly therefrom, an insole supported on said studs, a pair of tubes leading downwardly through the wall of the boot and communicating respectively with the space under said insole and the interior of the boot at a distance above said insole, and oppositely operating one-way valves in the respective tubes.

3. In a water proof boot, a main sole hav-

ing a series of rubber studs projecting upwardly therefrom, an insole supported on said studs, a pair of tubes leading downwardly through the wall of the boot and
5 communicating respectively with the space under said insole and the interior of the boot at a distance above said insole, and oppositely operating one-way valves in the respective tubes, the said insole having notches formed in the sides thereof to permit of passage of air. 10

In testimony whereof I have affixed my signature.

DEZSÖ BOJTOS.