Nov. 18, 1930. A. CSONT 1,782,136

WATERPROOF SHOE

Filed March 5, 1930

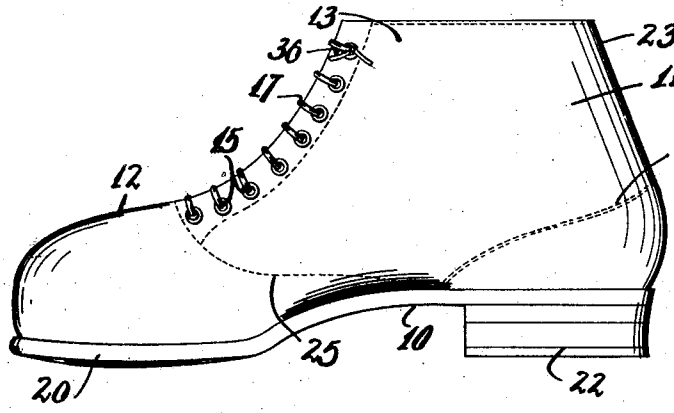


FIG 1

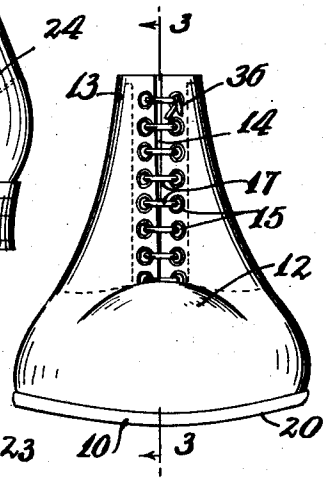


FIG 2

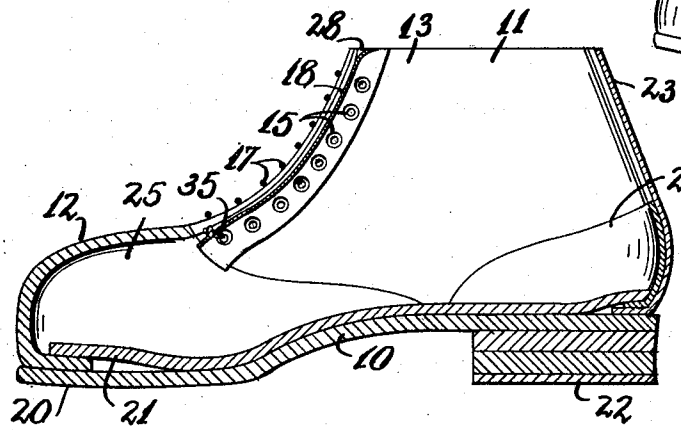


FIG 3

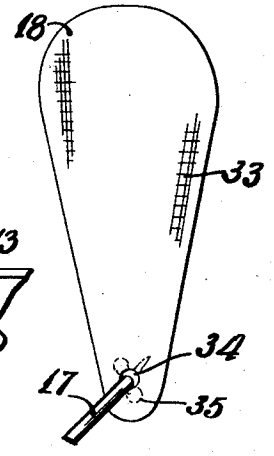


FIG 4

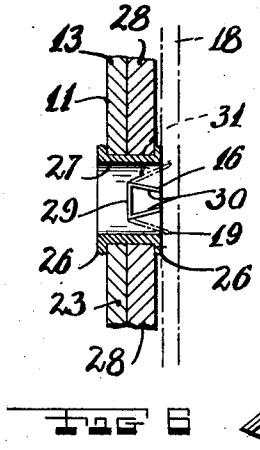


FIG 6

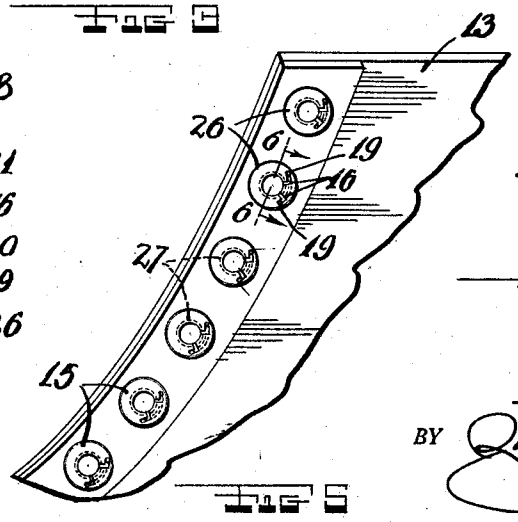


FIG 5

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UNITED STATES PATENT OFFICE

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WATERPROOF SHOE

Application filed March 5, 1930. Serial No. 433,238.

This invention relates to new and useful improvements in a waterproof shoe.

The invention has for an object the provision of a device of the class mentioned which is of simple durable construction, dependable in use and efficient in action, and which can be manufactured and sold at a reasonable cost.

The invention proposes a waterproof sole and heel structure connected with a waterproof shoe upper structure, said shoe upper structure comprising a vamp portion connected with an ankle portion having an opening extending from the vamp portion to the top of the ankle portion, eyelets thru apertures along the opposite sides of said opening and formed with bayonet slots, a shoe lace thru said holes, a waterproof closure member behind the opening in said ankle portion and held in place at the bottom on said lace, and pointed prongs demountably engaged in said bayonet slots and engageable against the sides of said closure member to hold it in place against one's foot upon a tightening of said lace.

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.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a side elevational view of a shoe constructed according to this invention.

Fig. 2 is a front elevational view of Fig. 1.

Fig. 3 is a longitudinal vertical sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a front elevational view of the closure member per se, used in the device.

Fig. 5 is a fragmentary enlarged perspective inside view of a portion of the ankle portion of the shoe upper immediately adjacent the opening.

Fig. 6 is an enlarged vertical sectional view taken on the line 6—6 of Fig. 5.

The waterproof shoe consists of a waterproof sole and heel structure 10 connected with a waterproof shoe upper structure 11, said shoe upper 11 comprising a vamp portion 12 connected with an ankle portion 13 having an opening 14 extending from the vamp portion to the top of the ankle portion permitting engaging of the shoe upon one's foot, eyelets 15 thru apertures along the opposite sides to the said opening 14 and formed with bayonet slots 16, a lace 17 thru said eyelets 15, a waterproof closure member 18 behind the opening 14 in said ankle portion and held in place at the bottom on said lace 17, and pointed prongs 19 demountably engaging said bayonet slots 16 and engageable against the face of said closure member 18 at its sides to hold it in place against one's foot upon a tightening of the lace 17.

The sole and heel structure 10 consists of an outer sole 20 attached to an inner sole 21 and the bottom edges of said shoe upper 11 engages between these soles. The attachment may be accomplished by endless stitches, gluing or the like. A heel 22 concludes the sole and heel structure and is attached upon the heel portion of the sole 10. The shoe upper structure 11 consists of outer material 23, a stiff heel piece 24 and a soft vamp lining 25.

Preferably the vamp portion 12 should be integral with the ankle portion of the shoe as shown on the drawing, insuring a water tight connection between these parts. The ankle portion 11 should be of sufficient height to extend above one's ankle and to completely encircle the leg. The eyelets 15 have end flanges 26 joined by shank portions 27. Edge strips 28 are arranged along the edges of the opening 14 and are held in place by the eyelets 15.

Each of the bayonet slots 16 consists of a base slot portion 29 on the shank 27 connected with inwardly inclined slots 30 also on the shank 27, these portions extending upwards through the inside flange 26 of the eyelet so that the base portion 29 remains the same size while the slots 30 incline outwardly to positions as indicated by the dotted lines 31 in Fig. 6. The pointed prongs 19 are of substantially U shape so that the base portion of the prongs are engageable in the base portion 29 of the bayonet slot and the arms in

the arms of the bayonet slot. The prongs have an outward spring so that they must be compressed when engaged in the bayonet slots and thereafter assume spread positions to maintain their positions. To permit the prongs to pass beyond the shank 27, the sides of the holes in said member 28 adjacent to the slots in the eyelets are cut away. The pointed ends of the prongs project slightly and are engageable against the edges of the closure member 18. In Fig. 6 this closure member is indicated by dot and dash lines.

The edges of the closure member are embossed with ridges 33 so as to form roughened portions. At the bottom the closure member is formed with an aperture 34 thru which the lace 17 passes. One end of the lace is formed with a knot 35 so that when the lace is drawn tight, the bottom of the closure member is urged firmly against the shoe upper. Preferably the bottom end of the closure member should be small and the top end larger, as illustrated in Fig. 4. The shoe lace 17 should preferably be of leather and extend thru each of the eyelets so that at its free end it may be formed with a knot 36 to hold the shoe in its laced closed position.

The knot 36 may be opened and the shoe upper spread for engaging the shoe upon one's foot. Then the lace may be tightly drawn for tightening the shoe upper upon the foot and then the knot 36 again formed. When the lace is tightened, each of the prongs 19 engage against the closure member 18 for holding it as placed and preventing it from sliding downwards so as to expose the opening 14. A structure is thus provided in which all parts are waterproof and the closure 18 serves to prevent the free passage of water thru the opening 14. If the wearer so elects, he may remove the prongs 19 or replace any of the prongs with ones of different lengths.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. A waterproof shoe, comprising a waterproof sole and heel structure connected with a waterproof shoe upper structure, said shoe upper comprising a vamp portion connected with an ankle portion having an opening extending from the vamp portion to the top of the ankle portion, eyelets thru apertures along the opposite sides of said openings and formed with bayonet slots, a shoe lace thru said eyelets, a waterproof closure member behind the opening in said ankle portion and held in place at the bottom on said lace, and prongs demountably engaged in said bayonet slots and engageable against the face of said closure member to hold it in place against one's foot upon a tightening of said lace.

2. A waterproof shoe, comprising a waterproof sole and heel structure connected with a waterproof shoe upper structure, said shoe upper comprising a vamp portion connected with an ankle portion having an opening extending from the vamp portion to the top of the ankle portion, eyelets thru apertures along the opposite sides of said openings and formed with bayonet slots, a shoe lace thru said eyelets, a waterproof closure member behind the opening in said ankle portion and held in place at the bottom on said lace, and prongs demountably engaged in said bayonet slots and engageable against the face of said closure member to hold it in place against one's foot upon a tightening of said lace, each of said bayonet slots consist of a base portion connected with inwardly inclined slot portions on the inside diameter of the eyelet and extending upwardly and connected with outwardly inclined slot portions at a short distance from the inside diameter of the eyelet.

3. A waterproof shoe, comprising a waterproof sole and heel structure connected with a waterproof shoe upper structure, said shoe upper comprising a vamp portion connected with an ankle portion having an opening extending from the vamp portion to the top of the ankle portion, eyelets thru apertures along the opposite sides of said openings and formed with bayonet slots, a shoe lace thru said eyelets, a waterproof closure member behind the opening in said ankle portion and held in place at the bottom on said lace, and prongs demountably engaged in said bayonet slots and engageable against the face of said closure member to hold it in place against one's foot upon a tightening of said lace, each of said bayonet slots consist of a base portion connected with inwardly inclined slot portions on the inside diameter of the eyelet and extending upwardly and connected with outwardly inclined slot portions at a short distance from the inside diameter of the eyelet, said prongs being of substantially U shape and springy so as to maintain their positions when engaged in said bayonet slot.

4. A waterproof shoe, comprising a waterproof sole and heel structure connected with a waterproof shoe upper structure, said shoe upper comprising a vamp portion connected with an ankle portion having an opening extending from the vamp portion to the top of the ankle portion, eyelets thru apertures along the opposite sides of said openings and formed with bayonet slots, a shoe lace thru said eyelets, a waterproof closure member behind the opening in said ankle portion and held in place at the bottom on said lace, and prongs demountably engaged in said bayonet slots and engageable against the face of said

closure member to hold it in place against one's foot upon a tightening of said lace, the edges of said closure member being embossed to form roughened portions to receive the said pointed prongs.

In testimony whereof I have affixed my signature.

ARON CSONT.