June 9, 1931. A. L. HOWARD 1,809,555

BEADED WELT

Filed Nov. 9, 1929

Fig. 1

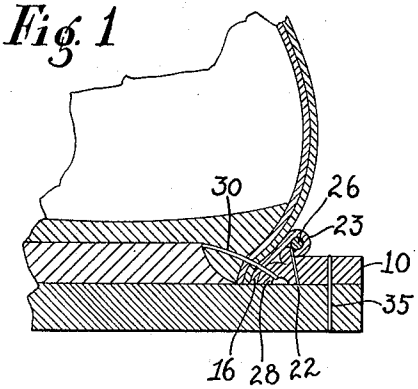


Fig. 2

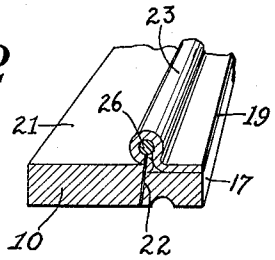


Fig. 3

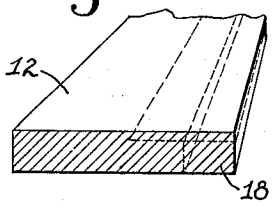


Fig. 4

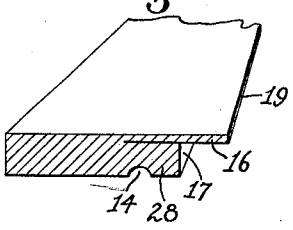


Fig. 5

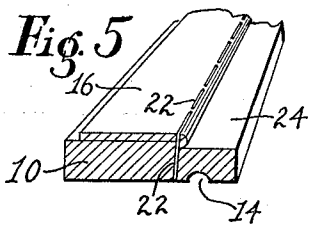
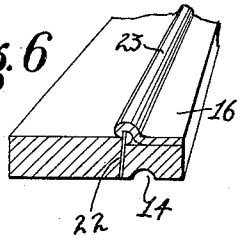


Fig. 6



INVENTOR.
Albert L. Howard

BY Jas. H. Schmehill

ATTORNEY.

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UNITED STATES PATENT OFFICE

ALBERT L. HOWARD, OF BROCKTON, MASSACHUSETTS, ASSIGNOR TO HAMILTON-WADE COMPANY, OF BROCKTON, MASSACHUSETTS, A CORPORATION

BEADED WELT

Application filed November 9, 1929. Serial No. 405,963.

This invention relates to welts for boots and shoes of the beaded type and to a method of making the same.

The object of the invention is to produce a novel and improved welt of the character specified in which the bead is formed in a novel manner designed to provide a strong and durable construction.

A further object of the invention is to provide a novel method of making the improved welt by which the same may be economically manufactured and which lends itself to the formation of beads of different sizes in a novel and simple manner.

With these objects in view, and such others as may hereinafter appear, the invention consists in the welt and in the method of making the same hereinafter described and particularly defined in the claims at the end of this specification.

In the drawings illustrating the preferred embodiments of the invention

Fig. 1 is a view in cross-section of a portion of a Goodyear welt shoe showing the novel welt incorporated therein;

Fig. 2, a perspective of the preferred form of the improved welt;

Fig. 3, a similar view of the welt blank from which the improved welt may be made;

Fig. 4, a perspective illustrating the blank after it has been slit to provide the bead-forming flap;

Fig. 5, a similar view illustrating the partial formation of the bead, and

Fig. 6, a perspective of an alternate form of the finished welt in which the bead is formed by folding the bead-forming flap and without employing a core.

Referring now to the drawings, the improved welt comprises a body portion 10 which may be formed from a welt blank 12, as shown in Fig. 3, by the provision of the usual groove 14 and by cutting the upper portion of the blank from the inner side edge thereof to form a bead-forming flap 16. It is desirable that the bead-forming flap 16 extend beyond the inner side edge 17 of the welt in order that when the flap is folded to form the bead, the inner side edge 19 of the flap will be positioned at the inner side edge 17 of the body of the welt, and in practice it is preferred to start with a welt blank 12 of a sufficient width such that when a strip such as is shown in dotted lines at 18 is cut from the inner side of the welt blank, a partially formed blank, such as illustrated in Fig. 4, will be produced in which the bead-forming flap 16 projects materially beyond the inner side edge 17 of the welt blank.

After the bead-forming flap 16 has been formed, the next step in the construction of the present welt comprises the folding of the flap 16 over upon the upper surface 21 of the outer or main body portion of the welt, and fastening means, herein shown as a line of stitches 22, are then passed through the folded portion of the flap and into the body of the welt.

As herein shown, the stitches 22 are located adjacent the point of juncture of the flap 16 and the main body 10 of the welt, and are preferably arranged to extend entirely through the flap and through the body 10 of the welt.

The next step in the formation of the welt comprises the folding of the flap 16 over again upon the inner side of the body of the welt to form a bead 23 and to position the flap upon the surface 24 of the welt.

For some purposes it may be desirable to introduce a core or packing member 26, as shown in Figs. 1 and 2, into the bead 23 formed as above described, and for other purposes it may be desirable to omit the core 26 and to fold the flap 16 after the stitches or other fastening devices 22 have been introduced to form a bead without a core, such a construction being illustrated in Fig. 6.

When the present welt is incorporated into a Goodyear welt shoe, the seam stitches 30 may be arranged to extend in the usual manner, as shown in Fig. 1, through the grooved portion 28 of the welt, and also through the flap 16, thus securely anchoring the flap in position. The bead 23 is reenforced by the stitches or other fastening devices 22 producing an exceedingly strong and reenforced construction of bead 23, particularly with respect to its connection to the main body of the welt, thus covering a weakness which has hereto-

fore been experienced in prior constructions of welts now upon the market.

An important advantage resulting from the present construction of welt and the manner in which the bead is formed, resides in the ability to form varying sizes of beads by merely increasing the distance at which the fastening devices, herein shown as stitches 22, are located with respect to the point of juncture of the flap 16 and the body of the welt. The greater the distance that the stitches are located from such point, the larger the size of the bead which will be formed when the flap is refolded and again brought into its operative position. When the welt is incorporated into the shoe, the body portion 10 may be secured in place by the usual outseam stitches 35.

From the above description it will be observed that the present welt may be manufactured in an economical manner, utilizing a minimum of stock and that the bead is reenforced by the stitches 22,, thus ensuring against the beading breaking away from the body of the welt during the wearing of the shoe.

It will also be observed that in the finished welt the stitches 22 are completely concealed by the bead, thus presenting an attractive and finished appearance to the welt.

While the preferred embodiments of the invention have been herein illustrated and described, it will be understood that the invention may be embodied in other forms within the scope of the following claims.

Having thus described the invention, what is claimed is:

1. A beaded welt comprising a body portion having a bead-forming flap formed by an incision in the upper part of the body portion extending from the inner side edge of the welt, said flap being folded outwardly beyond the juncture of the flap with the body portion and then inwardly to form the bead, and said outwardly folded portion being fastened to the body of the welt.

2. A beaded welt comprising a body portion having a bead-forming flap formed by an incision extending laterally partially through said body portion, the portion of the flap adjacent the juncture with the body portion extending toward the outer edge of the welt beyond the juncture of the flap with the body portion and being secured upon the upper surface thereof, and the remaining portion of the flap being folded over the first-mentioned portion to form the bead.

3. A beaded welt comprising a body portion provided with a bead-forming flap having portions folded in opposite directions to form the bead and with the underlying portion thus folded secured to the body of the welt, said folded portions extending on opposite sides of the juncture of the flap and body portion.

4. A beaded welt comprising a body portion having a bead-forming flap folded first in one direction and then in the opposite direction to form a bead and with the underlying fold stitched to the body of the welt, said folded portions extending on opposite sides of the juncture of the flap and body portion.

5. A beaded welt comprising a body portion having a bead-forming flap formed by an incision in the upper part of the body portion extending from the inner side edge of the welt and with the flap folded outwardly beyond the juncture of flap and body portion and then inwardly to form the bead, and with the outwardly extended folded portion stitched to the body of the welt.

6. A beaded welt comprising a body portion cut laterally to form a bead-forming flap having overlying folds forming the bead, and with the underlying fold secured to the body of the welt on the outer side of the juncture of said flap and the body portion.

7. A beaded welt comprising a body portion cut laterally to form a bead-forming flap having overlying folds forming the bead, and with the underlying fold secured to the body of the welt on the outer side of the juncture of said flap and the body portion, and a core interposed between said folds and around which the upper fold is extended.

8. A beaded welt comprising a body portion provided with a bead, said bead comprising an underlying portion cut from the body portion by a lateral incision therein and folded outwardly and secured to the body portion beyond the juncture thereof with the body portion and a folded overlying portion forming an extension of the underlying portion and co-operating therewith to form the bead and extended inwardly upon the inner surface of the welt.

In testimony whereof, I have signed my name to this specification.

ALBERT L. HOWARD.