April 17, 1928. 1,666,444

W. J. FALLON, JR

WELTING AND METHOD OF MAKING SAME

Filed May 16, 1927

Fig. 1

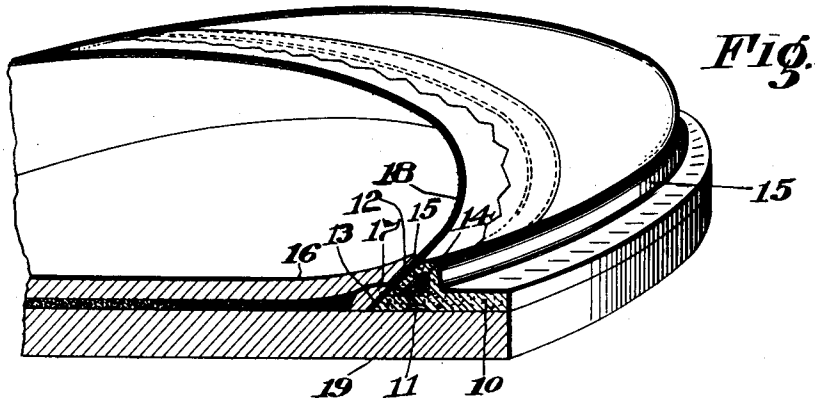



Fig. 2

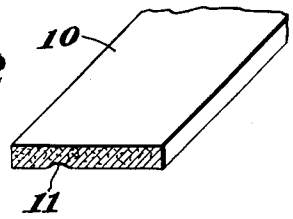



Fig. 3

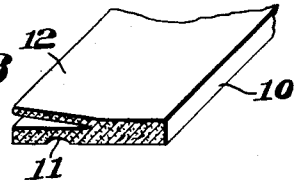



Fig. 4

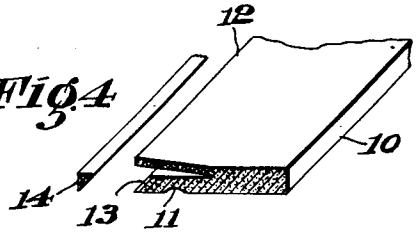



Fig. 5

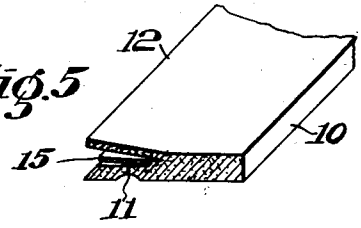



Fig. 6

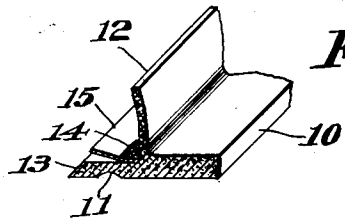



Fig. 7

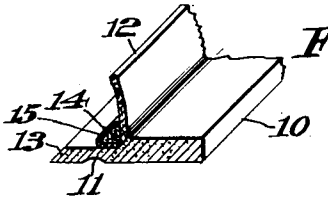
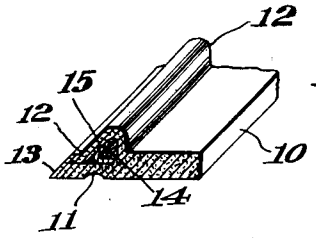



Fig. 8




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# UNITED STATES PATENT OFFICE.

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## WELTING AND METHOD OF MAKING SAME.

Application filed May 16, 1927. Serial No. 191,642.

This invention relates to an improvement in that type of welting known as "storm welting".

In recent years there has come into use in the manufacture of boots and shoes a novel welting having a bead provided at its upper or exposed face and which serves to fill the shoe crease formed between the upper and the welt of the shoe. This bead helps to exclude dirt and moisture from the shoe crease and gives the shoe a heavier and storm-proof appearance.

An important feature of the present invention resides in the construction of the welting and method of forming the same, whereby a bead is provided along the welting without necessitating the use of any additional material and also without reducing the original width of the welt strip, thus involving a saving in the welt forming stock.

In carrying out the present invention an incision is made longitudinally of the strip of welting to form a flap, and a triangular strip is cut from the incised portion of the welting to give the same a beveled edge without reducing the original width of the welt stock. The triangular strip cut from the welting is used as a filler and is inserted under the flap to cause the latter to form the desired bead when it is secured to the incised portion of the welting over the filler.

A further feature of the invention resides in an anchoring flap which is formed in the welting to further secure the filler strip in place.

The novel features of the present invention will be made clear from the following description and accompanying drawings of one good form of the invention.

In the drawings:—

Fig. 1 is a sectional perspective view of the toe portion of a shoe the welt of which is constructed in accordance with the present invention;

Fig. 2 is a perspective view of a piece of welt;

Fig. 3 shows the welt of Fig. 2 after it has been incised;

Fig. 4 shows the welt of Fig. 3 after the triangular filler strip has been cut therefrom;

Fig. 5 shows the welt provided with a second incision to form an anchoring flap.

Fig. 6 shows the filler strip inserted in its bead forming position;

Fig. 7 shows the anchoring flap folded up around the filler; and

Fig. 8 shows the finished welt with the outer flap fastened down over the filler.

The piece of welt 10 shown in Fig 2 may be formed of leather as is usual, and the upper face may be regarded as the grain or hair side of the leather, while the under face provided with the usual stitch-receiving groove 11 is the flesh side.

The steps involved in forming the storm or beaded welt of the present invention are preferably performed in the order shown in Figs. 2 to 8 inclusive wherein it will be seen that a deep incision is formed in one edge of the strip of welting to produce the flap 12. The incised portion of the welt strip is then cut as shown in Fig. 4 to form the beveled edge 13 and the filler strip 14.

A second incision may be formed in the welt strip 10 to form the anchoring flap 15; this, however, is not an essential feature in all embodiments of the invention. The filler strip 14 is then placed in the position shown in Fig. 6, and it may be secured in this position by bending the anchoring flap 15 upwardly around the filler and securing it to the filler as shown in Fig. 7. The bead forming flap 12 is then pulled downwardly over the filler 14 and is firmly secured by adhesive to the filler and incised portion of the welt as will be apparent from Fig. 8.

It should be noted that in carrying out the above described steps no stock other than that supplied by the original welt stock 10 of Fig. 2 is employed; it will also be noted that the bevel 13 is cut in such a manner that the original width of the strip 10 is preserved while at the same time a sufficiently large strip of leather 14 is secured to form the filler for the bead 15.

After the triangular strip 14 has been removed from the welt the flap 12 will extend some distance over the beveled edge 13 as will be apparent from Fig. 4, but when this flap is folded over the filler strip 14 to form the bead its outer edge will then lie approximately flush with the beveled edge 13 as will be apparent from Fig. 8.

The beaded welt of Fig. 8 may be secured to the inner sole 16 of a shoe by a binding stitch 17 as is usual, and the bead 15 is so positioned upon the welt that it will lie snugly against the shoe upper 18 to fill the shoe crease as will be apparent from Fig. 1.

The shoe sole 19 may be sewed to the welt 10 as is usual.

In the construction of boots and shoes it is found necessary to form the welt of the best grades of leather in order to secure the required strength and flexibility. It will therefore be apparent that any construction whereby a saving is secured in the high grade leather required to form the welting is important, and as above pointed out such a saving is obtained through the present invention since storm or beaded welting may be formed from the ordinary welting without necessitating the use of any additional stock.

What is claimed is:—

1. The method of forming a bead upon a strip of welting, which consists in incising the body of the strip of welting longitudinally to form a flap, cutting a triangular strip from the edge of the incised portion of the welting so that the width of the incised face of the welting is decreased while the original width of the welting is preserved and the welting is given a beveled edge, inserting said triangular strip as a filler under the flap to cause the latter to form a bead, and securing the flap to the incised portion of the welting over said filler.

2. The method of forming a bead upon a strip of welting, which consists in incising the body of the strip of welting longitudinally to form a flap, cutting a triangular strip from the edge of the incised portion of the welting to give the latter a beveled edge, inserting said triangular strip as a filler under the flap to cause the latter to form a bead, forming a second incision in the body of the welting to form a filler anchoring flap, and securing the first mentioned flap to the incised portion of the welting over said filler and second flap.

3. The method of forming a bead upon a strip of welting, which consists in incising the body of the strip of welting longitudinally to form a flap, inserting a filler strip under the flap to cause the latter to form a bead, forming a second incision in the body of the welting to form a filler anchoring flap, securing said anchoring flap to the filler, and then securing the first mentioned flap to the incised portion of the welting over said filler and anchoring flap.

4. As an article of manufacture, a strip of welting having its body incised longitudinally to form a flap, a filler strip inserted under said flap to cause the latter to form a bead extending lengthwise of the welting, said strip of welting being incised longitudinally a second time to form an anchoring flap that is secured to the filler strip, and having the first mentioned flap secured to the incised portion of the welting over said filler and anchoring flap.

5. As an article of manufacture, a strip of welting having its body incised longitudinally to form a flap and having a triangular strip cut from the incised portion of the welting to form a filler and to decrease the width of the incised face of the welting and also to produce a beveled edge upon the welting while the original width of the welting is preserved, and having said filler strip inserted under said flap to cause the latter to form a bead produced by securing the flap to the incised portion of the welting over the filler.

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

WILLIAM J. FALLON, JR.