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2,020,969

SHOE SOLE

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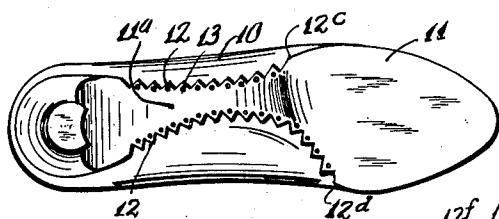


FIG. 1.

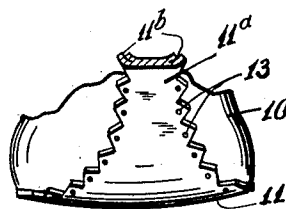


FIG. 5.



FIG. 10.

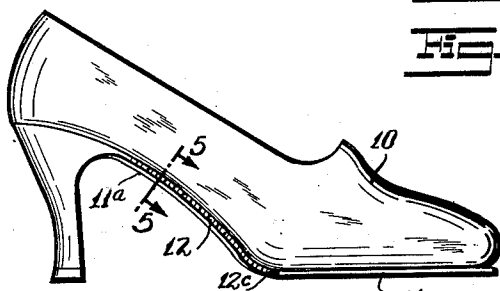


FIG. 2.

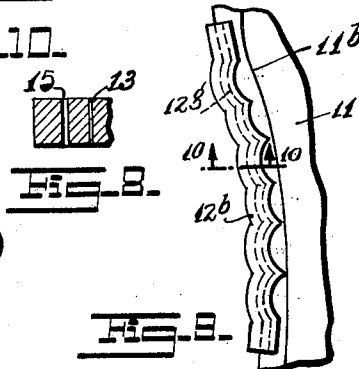


FIG. 3.

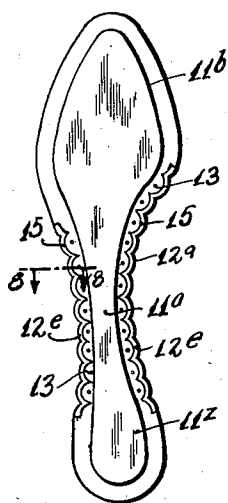


FIG. 7.

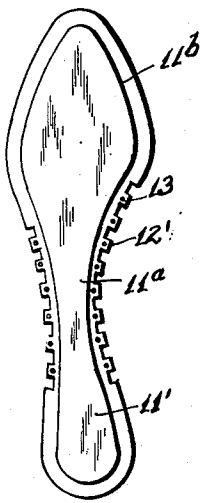


FIG. 8.

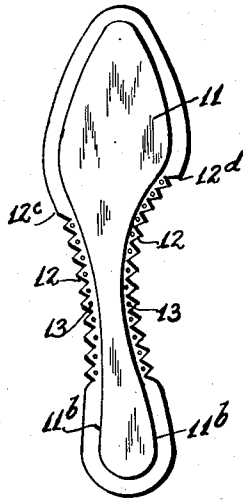


FIG. 9.

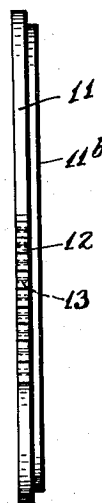


FIG. 4.

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2,020,969

SHOE SOLE

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5 Claims. (Cl. 36—25)

This invention relates to new and useful improvements in the shank portion of soles, and has more particular reference to pinking with perforations, therein.

It is an object of this invention to construct the shanks of the soles of ladies' shoes with pinking along the edges thereof in such a manner as to facilitate the conforming of the sole edges to the shank shape of the shoe. It has been found in practice that the edges of the shanks of soles of shoes stand away from the upper in the shank region and great difficulty is experienced in causing the edges to conform to the shoe bottom curvature. The reason for this is that leather is comparatively a stiff material and hard to form except when treated chemically or in some other manner.

This invention has for a still further object so to form the edges of the shanks of the soles of shoes that the edges may be readily conformed to the shoe bottom curvature without treatments to compress or expand portions thereof.

Still further the invention proposes to form pinking of various shapes, such as pointed, scalloped, serrated, or the like along the shank portion of the sole edge.

This invention proposes the arrangement of perforations through the pinking so as to render the leather more mobile and so further to assure the maintenance of the edges of the shank portions of the soles of shoes in position against the shanks.

Still further the invention also proposes an arrangement wherein the pinked portions of the shanks of the soles are arranged with detachable pinked strips along the edges thereof in such a manner that the width of the shank portions of the soles may be varied within certain limits as desired.

Still further the invention also contemplates the arrangement of pinked strips along the edges of the shanks of the soles of shoes in such a manner that they are detachably mounted in position.

Still further the invention proposes the construction of articles as mentioned which are simple and durable and which may be manufactured and sold at reasonable costs.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, 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 bottom view of a shoe constructed with pinking upon the shank of the sole thereof according to this invention.

Fig. 2 is a side elevational view of the shoe shown in Fig. 1.

Fig. 3 is a plan view of the sole of the shoe, shown removed from the shoe.

Fig. 4 is an edge elevational view of Fig. 3.

Fig. 5 is a fragmentary sectional view taken on the line 5—5 of Fig. 2.

Fig. 6 is a view similar to Fig. 3 but showing a sole constructed according to another embodiment of this invention.

Fig. 7 is another view similar to Fig. 3, but of another sole constructed according to a still further modification of this invention.

Fig. 8 is a fragmentary enlarged sectional view taken on the line 8—8 of Fig. 7.

Fig. 9 is a fragmentary enlarged view similar to a portion of Fig. 7 but illustrating another embodiment of the invention.

Fig. 10 is a fragmentary enlarged sectional view taken on the line 10—10 of Fig. 9.

In Figs. 1 and 2, a shoe 10 is illustrated having an arched shank portion 11^a which is also curved transversely, and which is provided with a sole 11 formed with pinking 12 along the edges of the shank portion thereof. The details of the construction of the shoe will not be given in this specification since it forms no part of the invention and such are generally known. An object of the invention is the arrangement of the edges of the shank portion of the sole so that they may be molded upwardly into contact with the upper in the shank of the shoe. This object is obtained by the construction of pinking 12 along the edges of the sole at the shank thereof so that the edges may be readily formed to engage firmly against the shank.

In Figs. 3 and 4 a detail has been shown of the sole. Reference numeral 11^b represents the conventional undercut upon the upper side of the sole generally formed on soles upon which the shoe upper is sewed. Since such constructions are generally known further details in this respect will not be given. The pinking 12 is formed along the edges of the sole at the shank portion thereof. Supplementing the pinking action there is a plurality of perforations 13 through the pinked edges. These perforations are arranged, one within each of the portions forming the pinking. As illustrated in Figs. 1—5 inclusive the

pinked edges are in the form of pointed portions.

The pinked sections on the opposite sides of the shank of the sole are of different lengths so as better to fit the shank form of the shoe. More particularly the pinking upon the outer side of the shoe extends substantially to the point 12^c while upon the inner side it extends to the point 12^d. The sectional view shown in Fig. 5 illustrates the manner in which the edges of the shank portion of the shoe are fashioned or formed in that the edges are extended upwards so as to fit against the transverse curve of the arched shank of the shoe bottom. It is pointed out that without the pinking arrangement the operation of bending the edges upwards would be relatively difficult in that certain portions of the material would have to be compressed and other portions stretched depending on location, since the shank portion of the sole is arched longitudinally and curved transversely.

In Fig. 6 another embodiment of the invention has been disclosed in which the sole 11' is formed with a shank portion 11^a having pinking 12' of square serrated form. In other respects the construction is identical to the previous form and corresponding parts may be recognized by the same reference numerals.

In Fig. 7 another embodiment of the invention has been disclosed wherein a sole 11² is illustrated formed with a shank portion 11^a having pinking 12^a of scalloped construction. In addition, this sole is formed with cuts 15 therethrough and spaced slightly in from the edges of the shank portion thereof to divide off pinked strip portions 12^e. These pinked strip portions are held by their ends upon the material of the sole since the cuts 15 do not reach the edges of the sole.

The arrangement is such that the small area at the ends of the cuts 15 may be cut through for the purpose of removing the pinked strips 12^e so as to vary the width of the shank portion of the sole. Irrespective of the fact that the pinked strips are removed the edges of the shank portion will be formed with pinking because the cuts 15 are arranged identical in formation to the scalloped edge of the shank portion and the sole.

In Figs. 9 and 10 another embodiment of the invention has been disclosed in which the device is provided with detachable pinked strips 12^f arranged with tongue portions 12^g upon the inner edges thereof and engaging in corresponding grooves formed along the edges of the sole. The arrangement is such that when the sole is attached in intimate contact with the shank of the shoe the pinked strips 12^f cannot be removed, but before the sole is attached the pinked strips 12^f may be removed if desired. Thus, the width of the sole at the shank area may be controlled.

The pinked strips 12^f are of scalloped shape along both inner and outer edges as clearly illustrated in Fig. 9, and the grooves in which the tongues 12^g engage are similarly shaped for receiving the tongues. The arrangement is such that when the pinked strips 12^f are removed the edges of the shank portions of the sole will be formed with pinking. Another feature of this arrangement is the fact that the upper corner edges of the sole of the shoe have inclined portions 11^h which simulate chamfered edges which render the pinked portions more flexible so as more readily to engage the underside of the shank of the shoe.

While I have shown and described the preferred embodiments 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. In combination with a shoe having an arched shank portion also curved transversely, a sole attached upon the shoe and having pinking at the edges of the shank portion thereof, such edges readily conforming with the curvature of the shank portion of the shoe.

2. In combination with a shoe having an arched shank portion curved transversely, a sole attached upon the shoe and having pinking at the edges of the shank portion thereof, such edges readily conforming with the curvature of the shank portion of the shoe, the pinked edges of said sole having perforations through the bases of the lobes thereof.

3. In a sole having a shank portion, said sole having its edges pinked in the shank portion and each edge provided with a cut following the contour of the pinking, said cuts terminated short of the sole edge to provide pinked strips attached by integral connections to the sole.

4. In a sole having a shank portion, said sole having its edges pinked in the shank portion and each edge provided with a cut following the contour of the pinking, said cuts terminated short of the sole edge to provide pinked strips attached by integral connections to the sole, and perforations located in the base portions of the lobes of the pinking.

5. In a sole having a shank portion provided with pinked edges, detachable strips of pinking contoured similar to said pinked edges, said detachable strips having tongues at their undersides engaged in corresponding grooves adjacent the pinked edges of said sole.

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