SHOE AND METHOD OF MAKING THE SAME

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The present invention relates to an improvement in shoes and method of making the same.

More particularly the invention relates to the manufacture of low shoes for ladies and has for its object especially to provide an upper for a shoe of the type referred to, which will be durable and strong in construction, and present an ornamental appearance.

By the present invention it is possible to construct a shoe upper from relatively small pieces of suitable material and to provide the several sections of the upper with ornamental panels or portions.

For example, as shown in the embodiment of the invention hereinafter particularly described, the several sections of the upper may include portions formed by interlaced or interwoven strips whereby the shoe as a whole is given a very attractive appearance, which may be increased by utilizing material of different colors.

In the accompanying drawings:

Figure 1 is a perspective of a shoe constructed in accordance with the present invention.

Figure 2 is a view of the blanks or pieces from which one of the sections of the upper of the shoe of Figure 1 is constructed, the same being shown separated.

Figure 3 is a sectional view substantially on the line 3—3 of Figure 2.

Figure 4 is a sectional view on a line substantially at right angles to Figure 3, of the construction produced by connecting the parts shown in Figure 2 as hereinafter described.

Figure 5 is a view similar to Figure 4 illustrating a slight modification.

Figure 6 is an elevation of the parts shown in Figure 5 arranged one upon the other and connected as shown in Figure 1.

Figure 7 is a section substantially on the line 7—7 of Figure 6.

Figure 8 is a transverse view substantially on the line 8—8 of Figure 6.

According to the present invention, each of the forward side sections of a shoe is composed of two pieces of leather or other suitable material 1, 2, which are placed one upon the other and connected together and to the vamp section 3 and rear section 4 of the shoe by stitching or other suitable fastening means.

Each of the pieces 1, 2, which as shown in Figure 2 are of the same size and outline, is provided with a plurality of apertures, each of said groups or sets forming a complementary portion of a definite design and said pieces are engaged with and connected by an additional member or members shown as having the form of an elongated band or strip, to complete the design.

As shown, the apertures in the pieces 1, 2 are in the form of relatively elongated substantially rectangular slots, the slots in the two pieces being so related that when the pieces are placed one upon the other, the apertures or slots 6 in the piece 1 will be over the solid portions 7 separating the slots in the piece 2.

As shown, a strip or band 8 is arranged between the pieces 1, 2 and positioned so that it passes through the several slots or apertures formed in such pieces, passing below the sections 6* intermediate the slots 6 in the outer piece 1 and under the solid portions 7* intermediate the slots 7* of the inner piece.

As shown in Figure 1, a plurality of such strips 8, 9 may be provided.

Preferably, the pieces 1, 2 will be of differently colored materials and the connecting strip or strips 8, 9, may be of the same color as one of said pieces, or of a different color so as to furnish a contrast to the portions of the pieces with which it cooperates in producing the desired design.

Instead of making the slots or apertures in the pieces 1, 2 of substantially the same length as shown in Figure 2, the apertures in the pieces 11, 12 which are connected to form a section of the upper may be of different lengths or otherwise differ one from another. As shown in Fig. 5, while the two pieces are of the same size and shape, the slots 13 in the inner piece 11 are relatively shorter than the corresponding slots in the outer piece 12 so that the piece 11 includes a relatively solid, imperforate, section 11a.
parts of which will be exposed through portions of the slots in the outer piece when the two pieces are placed one upon the other. As shown in Figures 6 and 7, the strip or
member 15 that extends transversely of the apertures in the two main pieces of each section of the upper, constructed according to the invention, need not pass through the apertures but can be arranged over the said imperforate section 11 of the inner piece and be held in position by the means which connects the two main pieces together and to the other parts of the shoe, for example stitching or any other suitable securing means.

In the drawings, for purposes of illustration, the narrow strips which are arranged between and connected with the main pieces of the upper section and which cooperate with the apertures in said pieces to produce the desired design are shown as projecting at the ends from said pieces; but it will be understood that when the sections of the shoe are stitched together, such ends will be entirely concealed and it is not necessary that they project beyond the edges of said body pieces.

In the embodiment of the invention illustrated, only the side pieces of the forward part of the upper are ornamental as herein described, and as shown, the vamp section 3 includes a portion containing a slightly different design.

It will, of course, be understood that any of the other sections of the upper, that is the vamp section or either of the rear sections of the upper may be constructed in accordance with the invention. By forming the upper sections of two pieces and connecting them in the manner described, a strong and durable construction is secured, even though the pieces 1, 2 are of minimum thickness and weight. As before mentioned, the body pieces may be of different colors and the intermediate strips 8, 9 may be of the same color as one of the main pieces or of a different color according to the design to be produced. By the invention it is possible to construct the several portions of a shoe upper from relatively small pieces of material connected by suitable lines of stitching or otherwise, and to include in any or all of said portions a predetermined ornamental panel. The particular design shown is simply an example of one which may be produced by the invention as it will be apparent that by employing apertures of other forms there can be considerable variation in design.

As shown particularly in the sectional views, each main piece includes a marginal or border portion surrounding the apertured section and the lines of stitching that connect the several sections of the upper will extend through these marginal portions. As usual, the upper edges of the side and vamp sections of the upper may be strengthened by an ornamental finishing strip 20. By the relative arrangement of the strip 8 with the two main pieces before described, the portions of the inner piece in alignment with the apertures in the outer piece are deflected outward through said openings so that portions of the inner piece are in planes outside of the planes of the outer piece.

The invention may be embodied in shoes having the uppers made in a variety of ways. In the particular embodiment illustrated the vamp, side and toe sections are connected by exterior strips extending from the throat of the shoe to the sole thereof and the toe section is provided with a portion that medially overlies the vamp section. The vamp section may be reinforced by a stay or strengthening strip on its inner face in substantial alignment with the said portion of the toe section that extends upward over the vamp section.

If desired, the forward sections of the upper may be provided with an additional lining member which may extend across the side and vamp sections, although the weight of the shoe will be reduced by omitting such lining and also a maximum amount of ventilation will be secured if such lining is omitted.

I claim:
1. The herein described method of making an ornamental section of a shoe upper, which consists in providing two complementary portions of a predetermined design by forming apertures in separate pieces of material, placing one of said pieces on the other, with the apertures in one in a definite relation to those in the other, and securing to said pieces a third member cooperating with the design portions of both said pieces to produce the desired design.
2. The herein described method of making an ornamental section of a shoe upper, which consists in providing two complementary portions of a predetermined design by forming apertures in separate pieces of material, placing one of said pieces on the other, with the apertures in one in a definite non-registering relation to those in the other, and securing between said pieces a third member cooperating with the design portions of both said pieces to produce the desired design.
3. The herein described method of making an ornamental section of a shoe upper which consists in providing two complementary portions of a predetermined design by forming apertures in separate pieces of material, placing one of said pieces on the other, with the apertures in one in a definite non-registering relation to those in the other, and completing the design by an additional member or members passing through apertures in both said pieces.
4. The herein described method of making an ornamental section of a shoe upper, which consists in providing a series of substantially parallel slots in each of two pieces of material, placing one of said pieces on the other so that the slots in one piece are out of alignment with the slots in the other, and passing a third member through slots in both said pieces.

5. The herein described method of making an ornamental section of a shoe upper, which consists in providing two complementary portions of a predetermined design by forming apertures in each of two pieces of material, differing in color one from the other, placing one of said pieces on the other with the said apertures in one in a definite non-registering relation to those in the other, and passing another member or members through apertures in both pieces.

6. The herein described method of making an ornamental section of a shoe upper, which consists in providing two complementary portions of a predetermined design by forming apertures in each of two pieces of material, differing in color one from the other, placing one of said pieces on the other with the said apertures in one in a definite non-registering relation to those in the other, positioning a third member between said pieces to extend across apertures in both, and securing said pieces and member together.

7. The herein described method of making an ornamental section of a shoe upper, which consists in providing a series of substantially parallel slots in each of two pieces of material, placing one of said pieces on the other so that the slots in one piece are out of alignment with the slots in the other, the slots in the inner of said pieces being shorter than those in the outer piece, and securing said pieces together.

8. The herein described method of making an ornamental section of a shoe upper, which consists in providing a series of substantially parallel slots in each of two pieces of material, placing one of said pieces on the other so that the slots in one piece are out of alignment with the slots in the other, the slots in the inner of said pieces being shorter than those in the outer piece, and passing a third member through slots in both said pieces.

9. A shoe having a section of its upper comprising two pieces of material arranged in overlapping relation and each provided with a plurality of apertures constituting complementary portions of a design, the apertures in one piece being in non-registering relation to those in the other, and a third member extending transversely of apertures in both said pieces and forming part of the aforesaid design.

10. A shoe having a section of its upper comprising two pieces of material, differing in color one from the other, positioned one

11. A shoe having a section of its upper comprising two pieces of material, differing in color one from the other, positioned one over the other and each provided with a plurality of apertures constituting complementary portions of a definite design, the apertures in one piece being out of alignment with those in the other, and a third member arranged between said pieces and extending transversely of the apertures in both thereof.