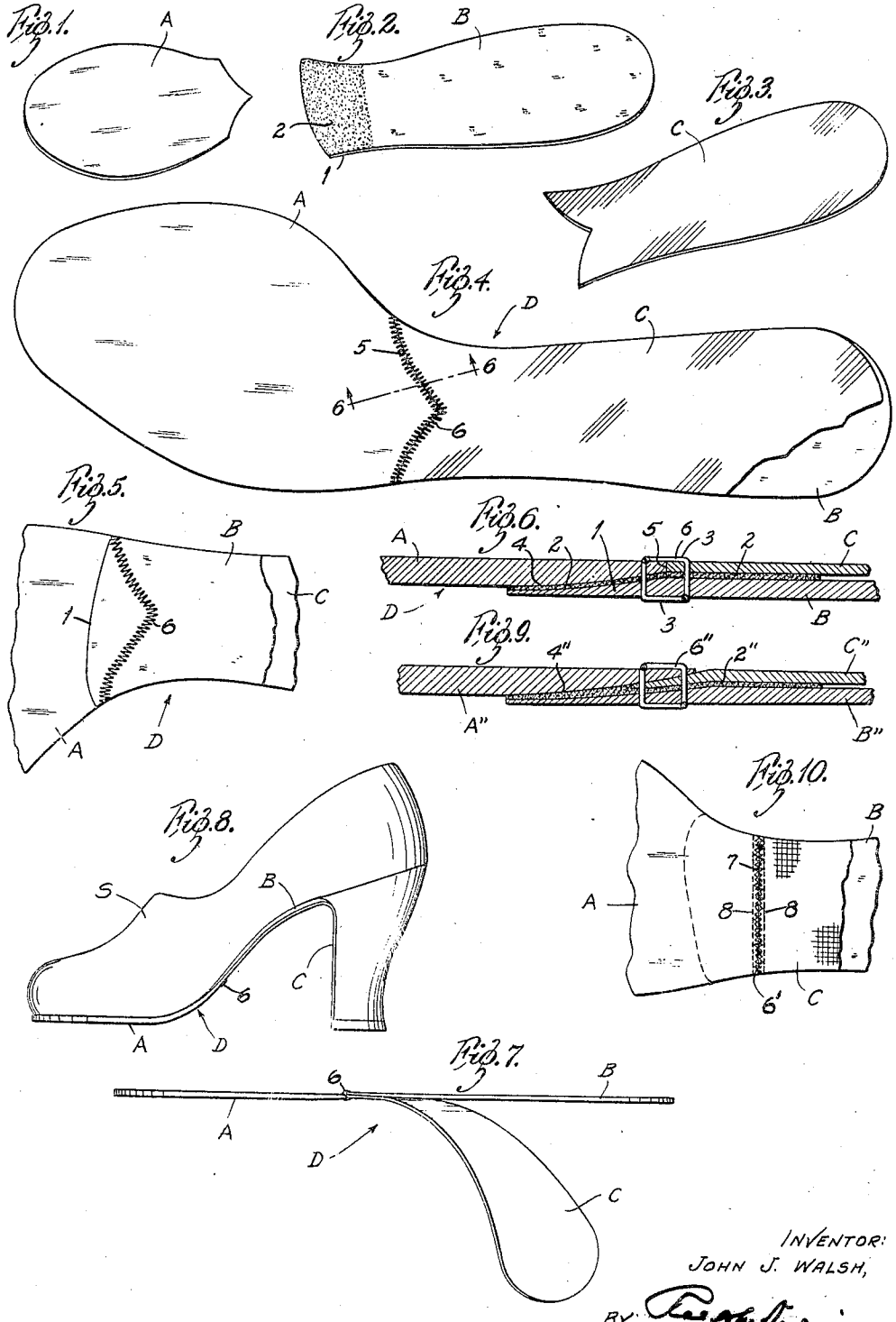
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OUTER-SOLE FOR SHOES

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OUTER SOLE FOR SHOES

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This invention relates generally to footwear. More particularly, my invention relates to a certain new and useful improvement in outer-soles for shoes and other footwear and has for its object the provision, as a new article of manufacture, of an outer-sole including, as a unitary structure, three permanently joined members uniquely answering all requirements and at the same time effecting a great economy in sole-leather and adding to the attractiveness and appearance of the particular shoes.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claims.

In the accompanying drawing,

Figures 1, 2, and 3 are perspective views of the fore-part or sole member proper, of the rear or combined heel-and-shank member, and of the combined shank-and-heel-covering member or apron, respectively, of an outer-sole constructed in accordance with and embodying my invention;

Figure 4 is a plan view of an outer-sole of my invention;

Figure 5 is an inverted fragmentary plan view of the outer-sole;

Figure 6 is a longitudinal sectional view of the outer-sole taken approximately on the line 6—6, Figure 4;

Figure 7 is a perspective view of the outer-sole;

Figure 8 is an elevational view of a shoe constructed with and embodying an outer-sole of my invention;

Figure 9 is a fragmentary longitudinal sectional view of a slightly modified outer-sole embodying my invention; and

Figure 10 is a fragmentary plan view of another slightly modified outer-sole embodying my invention.

Referring now more in detail and by reference characters to the drawing, which illustrates practical embodiments of my invention, the outer-sole of my invention includes essentially three members, namely, a fore-part or half sole proper A, illustrated in Figure 1, a heel-and-shank member B, as shown in Figure 2, and a flexible shank-and-heel-covering member or apron C, illustrated in Figure 3.

The member A is constructed of any suitable standard or conventional semi-rigid sole leather of suitable thickness and having the desired contour and dimensions conformable with the fore-part only of the particular shoe in which it is to be embodied, member A, as shown, having a length to terminate at its rear end somewhat to the rear of the ball of the foot.

The member B is constructed of a suitable section of flexible leather or of other suitable material. Member B has little thickness, is frequently provided from scrap, and has a contour and dimensions, such as is shown, for forming the heel-and-shank of the outer-sole.

The member C is constructed of any suitable relatively thin flexible fabric, such as top or upper leather or other suitable textile material, preferably may have, although not here particularly shown, upon its outer face any selected design or configuration, and may be of any selected or particular color, preferably such as to match or blend with the color of the shoe in which the outer-sole is to be incorporated, member C having a contour and dimensions to substantially or approximately register throughout its margin, except at its forward end, with the member B.

In uniting the members A, B, and C in the formation of a full or complete outer-sole, the member B is preferably skived at and adjacent its forward margin, as at 1, and suitable adhesive 2 applied upon the upper face of such skived portion 1 and upon that portion of the member B immediately thereadjacent, as best seen in Figure 6.

A member C is then superposed in approximate registration for the most part—the member C is somewhat shorter than the member B, as indicated in Figure 6,—upon the member B and fixed at its forward end-portion only to the member B, as by the adhesive 2, the member C at and throughout the major portion thereof being entirely free from the member B, as best seen in Figure 7, for purposes presently appearing.

A member A, also preferably skived, as at 4, on its under face and at its rear end-portion, is then at such skived rear end-portion 4 flatwise disposed overlappingly upon the projecting adhesive-equipped end-portion 1 of the member B and fixed thereto, as by such adhesive 2, the member A, in such connection with the member B, being disposed in a substantially precise butt-joint, as at 5, with the forward end of the member C.

Thereupon the three members A, B, and C are preferably further secured together, as by a continuous row of so-called over and under through stitches 6, as shown, and now collectively form a unitary outer-sole, generally designated D, Figures 4, 5, and 7, answering all requirements in shoe manufacturing and being substantially the equivalent of a standard outer-sole, but in the formation of which outer-sole D a great economy has been effected, in that the heel-and-shank member B and the shank-and-heel-apron or covering member C may both be constructed of any waste or cheap material. In addition, the shank-and-heel-apron or covering member C may have a selected configuration upon its under or outer face and may also be of any selected color, such, for instance, as brown, Figure 3, or black, Figure 10, so as to blend or match with

the upper or heel-covering of the particular shoe in which the sole D is incorporated, as illustrated in Figure 8, the outer-sole D lending itself most economically to the conservation and rationing of sole leather, a product now becoming more and more difficult of obtaining for civilian shoe production, and also adding very considerably to the attractiveness and appearance of the particular shoe.

Preferably, it may be here stated, the apron-member C at its forward end and the sole-member A at its rear end are co-operably or registrably scalloped or otherwise formed or shaped for appearance only, as shown in Figures 1, 3, 4, and 5, although it is to be understood that such members may abut in a straight line or joint, as at 7, Figure 10, in which latter event the row of over and under through stitches 6' is in a straight line thereacross following the straight joint line 7.

In the modified outer-sole fragmentally shown in longitudinal section in Figure 9, the sole member A'' is overlapped at its rear skived end-portion 4'' upon the skived rear end-portions of both members B'' and C'', and the three members A'', B'', and C'' joined permanently together not only by an interposed layer of adhesive 2'', but also by a row of over and under through stitches 6'', as shown.

I might add that, in either form, the outer-sole D is lasted in the production of a particular shoe, as illustrated in Figure 8, just exactly as lasting is accomplished with the single piece, longitudinally slit outer-sole of today, the member C or C'', as the case may be, being free from the heel-and-shank member B for convenient covering attachment to and upon and over the breast of the heel of the finished shoe S, as shown in Figure 8.

Preferably also, as a matter of precaution, the several members of the particular outer-sole may be further fixed together by additional rows of thread stitches, as, for instance, the rows 8, 8, shown in Figure 10.

The outer sole D may be readily and inexpensively constructed and fulfills in every respect the objects stated, and it is to be understood that other changes and modifications in the form, construction, arrangement, and combination of the several parts of the outer-sole may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is,

1. As a new article of manufacture, a shoe outer-sole including a fore-part member, a heel-and-shank member, and a shank-and-heel-covering member fixed together at respective ends and the shank-and-heel-covering member being free throughout a portion of its length from the fore-part and the heel-and-shank members.

2. As a new article of manufacture, a shoe outer-sole including a semi-rigid fore-part member, a flexible heel-and-shank member, and a flexible shank-and-heel-covering member fixed together at respective ends and the shank-and-heel-covering member being free throughout a portion of its length from the forepart of heel-and-shank members.

3. As a new article of manufacture, a shoe outer-sole including a fore-part member of sole leather, a flexible heel-and-shank member of thinner material than the fore-part member, the fore-part member at an end portion overlapping upon the heel-and-shank member, a flexible shank-and-heel-covering member disposed registrably for the most part upon the heel-and-shank member, and securing means engaging said members, the heel-and-shank-covering member being free throughout a major portion of its length from the fore-part and heel-and-shank members.

4. As a new article of manufacture, a shoe outer-sole including a fore-part member of sole leather, a flexible heel-and-shank member of thinner material than the fore-part member, the fore-part member at an end portion overlapping upon the heel-and-shank member, a flexible shank-and-heel-covering member disposed registrably for the most part upon the heel-and-shank member, and means comprising thread stitching engaging said members, the heel-and-shank-covering member being free throughout a major portion of its length from the fore-part and heel-and-shank members.

5. As a new article of manufacture, a shoe outer-sole including a fore-part member of sole leather, a flexible heel-and-shank member of thinner material than the fore-part member, the fore-part member at an end portion overlapping upon the heel-and-shank member, a flexible shank-and-heel-covering member disposed registrably for the most part upon the heel-and-shank member and endwise abutting the overlapping end of the fore-part member, and means comprising thread-stitching engaging said members, the heel-and-shank-covering member being free throughout a major portion of its length from the fore-part and heel-and-shank members.

6. As a new article of manufacture, a shoe outer-sole including a fore-part member of sole leather, a flexible heel-and-shank member of thinner material than the fore-part member, a flexible shank-and-heel-covering member disposed registrably for the most part upon the heel-and-shank member, the fore-part member at an end portion overlapping upon the hell-and-shank member and the shank-and-heel-covering member, and securing means engaging said members, the shank-and-heel-covering member being free throughout a major portion of its length from the fore-part and heel-and-shank members.

7. As a new article of manufacture, a shoe outer-sole including a fore-part member of shoe leather, a flexible heel-and-shank member of thinner material than the fore-part member, the fore-part member at an end portion overlapping upon and at an end fixed to the heel-and-shank member, a flexible shank-and-heel-covering member disposed registrably for the most part upon and at an end fixed to the heel-and-shank member, and securing thread stitching engaging the three members, the shank-and-heel-covering member being free throughout a major portion of its length from the fore-part and heel-and-shank members.

8. As a new article of manufacture, a shoe outer-sole including a fore-part member of sole leather, a flexible heel-and-shank member of thinner material than the fore-part member, a flexible shank-and-heel-covering member disposed registrably for the most part upon the heel-and-shank member, and means engaging said members for securing the same together, the shank-and-heel-covering member being free throughout a major portion of its length from the fore-part and heel-and-shank members and being of a selected color.

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