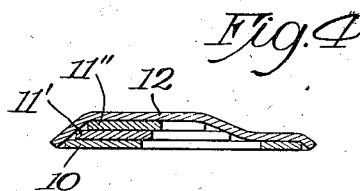
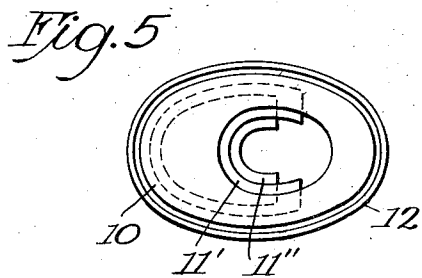
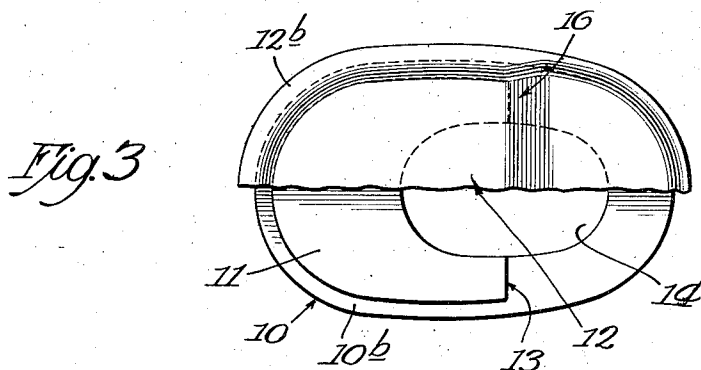
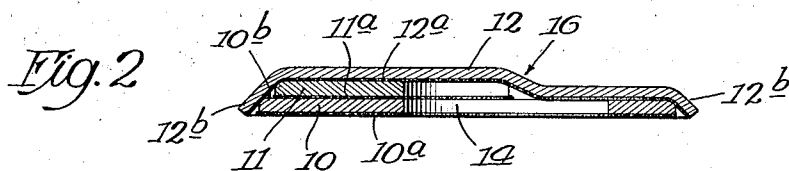
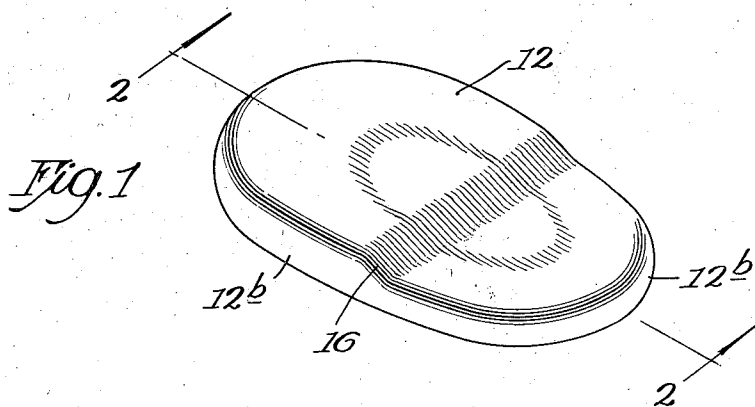


May 25, 1937.

W. M. SCHOLL
CORN PAD AND THE LIKE

2,081,715

Filed Dec. 11, 1933



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UNITED STATES PATENT OFFICE

2,081,715

CORN PAD AND THE LIKE

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Application December 11, 1933, Serial No. 701,833

3 Claims. (Cl. 128--153)

My invention relates to adhesive pads for use in treating corns, bunions, or other sensitive places on the human foot and shielding the affected area from the harmful effects of shoe pressure and of rubbing against the shoe; and more particularly it has to do with pads of the type made up of superimposed layers of fabric stuck together by films of adhesive material, the top layer or "upper section" of the pad being imperforate and the subjacent layer or layers being cut away to form a shielding recess open to the under side of the pad.

The pads of this type, heretofore in general use, are made of substantially uniform thickness from end to end, have their perimeters shaped symmetrically both lengthwise and crosswise with respect to the center of the pad, and have their shielding recesses centrally located. Used, as chiefly they are, on affected toe-joints, where the action of the foot in walking pushes forward and then retracts the affected joint with respect to the shoe in the course of every step, pads of the stated flat, symmetrical construction above referred to often fail from the outset to give proper relief from shoe pressure in walking, and in pads that have multiple-ply bodies the fault is frequently accentuated by slippage between the body layers with resultant distortion of the shape of the shielding recess and increased imposition of shoe pressure on the sensitive parts which the pad was intended to shield. Also, where the pad presents a vertical raw-cut edge exposing thin lines of the adhesive material, the oozing out of adhesive, or the starting of any slip between pad layers, often impregnates a spot on the stocking with the adhesive material so that the rubbing and pressure of the shoe, applied through the sticky stocking, destroys all the more rapidly the usefulness of the pad for protective purposes.

In general, the objects of my invention are to provide a shielding pad construction of the adhesively-joined, multi-ply-fabric type above referred to, which substantially obviates or greatly lessens the drawbacks and disadvantages heretofore common in pads of that type, which insures distribution of the shoe pressure in walking to give greater comfort to the wearer, and to secure in the pad itself a greater resistance to deterioration or (otherwise stated) longer useful life.

In the drawing,—

Figure 1 is an enlarged perspective view of a shielding pad embodying my invention;

Fig. 2 is a longitudinal section on line 2—2 of Fig. 1;

Fig. 3 is a plan view of the pad with its "top section" or cover layer partly broken away;

Fig. 4 is a longitudinal section through a pad of modified construction; and

Fig. 5 is a bottom plan view thereof with parts broken away.

In Figs. 1 to 3, the pad is shown as of three-layer construction, 10 indicating the base layer, 11 a superimposed, shorter "shim"-layer which, together with layer 10, makes up the body or "lower section" of the pad, and 12 indicates the cover layer or top section thereof, each layer being made of cotton fabric which is coated on its under side with a film of adhesive material, as indicated respectively at 10^a, 11^a and 12^a.

As here shown, the shim-layer 11 is set well back from one end of the lower layer 10 so that it presents a straight edge 13 crossing the pad, as shown in Fig. 3. The bottom layer 10 and shim-layer 11 are both cut away (preferably after assembly in adhering relation) to define a recess-aperture 14 approximately half of the length whereof is cut through the two layers and half through the single bottom layer.

In the construction shown in Figs. 1 to 3, the fabric of each of the three layers is of uniform thickness, so that when the cover piece 12 is adheringly affixed to the exposed upper surfaces of layers 10 and 11, the cover layer presents a shoulder or "step" effect as indicated at 16, 30 where it leads down from the short layer 11 to the full length bottom layer 10.

The pad herein shown is intended to be placed on the wearer's foot with its thin end or "toe" forward in order that, in the slipping forward of the foot relative to the shoe in walking, the "heel" or thicker portion of the pad may distribute a very substantial portion of the shoe pressure over an area of the foot in rear of the sensitive spot which is being shielded within the recess. I find it to be desirable in this regard to make the heel of the pad both wider and longer than the toe portion, and to this end I make the bottom layer 10 somewhat egg-shaped and locate the recess 14 considerably forward of its center.

For best embodiment of my invention, it is desirable that the shim-layer 11 shall be shaped similarly to but shall be smaller than the heel portion of the base layer 10, so as to leave a substantial rim 10^b of the base layer projecting 50 beyond its side and rear edges, as shown in Figs. 2 and 3. Complementally, the cover 12 is of suitable size and outline to provide a marginal extension a little wider at every point than the depth of the layer or layers below, such extension

forming, in the completed article, a protective skirt 12^b which envelops the perimetral walls of the pad body, extends substantially to the bottom-level thereof, and adheres to the edge of the base layer.

5 This arrangement of the skirt, in relation to the set-back arrangement of the intermediate layer or shim 11 on the base layer, gives something of a beveled effect to the portions 12^b and 16 of the
10 pad which otherwise would present abrupt, raw-cut edges and I find this construction to be of substantial advantage in furthering most comfortable distribution of shoe pressure and avoiding distortion of the pad or creeping of its upper
15 layers, in use.

In the modification shown in Figs. 4 and 5, two shim-layers 11' and 11'' are used, each smaller than the subjacent layer of the pad and set back with respect to the perimetral margin of the sub-
20 jacent layer, so as to further the beveled-edge effect of the cover piece and to augment the heelward pressure-distribution; each such layer 11' and 11'' preferably having its inner edge shaped to protrude somewhat over the recess-bordering
25 wall-portion of the layer below it so that the heelward end of the shielding recess is of graduated depth in both its length and width.

I claim:

1. As an article of manufacture, an adhesive
30 pad for use on the human foot, which is composed wholly of superimposed layers of fabric each whereof is of uniform thickness and has its under-
35 side coated throughout with adhesive, and which comprises, in construction, not less than three layers, these including: an ovate base layer aper-
40 tured to receive a corn or the like; an imperforate cover layer similar to plan contour to but larger in area than said base layer to provide a marginal
45 skirt; and at least one intermediate layer having at least its sides and one end similar in plan contour to but smaller in area than the corresponding portions of the base layer and having a portion cut away above at least a portion of said base layer; said intermediate layer adhesively engag-
45 ing the base layer and leaving a portion of the

upper surface of the latter exposed all around said intermediate layer, and said cover layer adhesively engaging said intermediate layer and also engaging exposed portions of the base layer beyond the edges of said intermediate layer.

2. As an article of manufacture, a protective
5 pad for use on the human foot composed of superimposed layers of fabric each whereof is of uniform thickness throughout and has its
10 underside coated throughout with adhesive; and which comprises, in combination, a base layer having an aperture to receive a corn or the like; a U-shaped shim-structure adhesively mounted
15 on the base layer with its outer side-edges and closed-end edge substantially conforming to the plan contour of but wholly located inwardly from the edge of the base layer, and with its inner edges
20 overhanging one end and part of the sides of said aperture in the body layer; and an imperforate cover piece larger in area than the base layer adhesively engaging the upper surface of said
25 shim structure and also portions of the base layer that extend beyond the shim-structure.

3. As an article of manufacture, a pad of the character described, comprising in combination
25 not less than three layers of fabric, each of substantially uniform thickness and adhesive-coated throughout its underside; these including an egg-shaped base layer having its toe end narrower
30 than its heel end and having a corn-recess aperture therethrough the length whereof lies chiefly in the toe end of said layer; a shorter shim-layer adheringly mounted on said base layer and set
35 back from the toe end thereof and cut away conformably with the heel end of said recess-aperture to thicken the heel portion of the pad and the heel end of the aperture walls; an imperforate cover layer larger in area than the base
40 layer adheringly mounted on the top surfaces of said shim layer and the toe portion of the base layer, and having a marginal skirt extending below the adhesion level of the shim layer to the
45 base layer and marginally adhering to the base layer.

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