J. N. SCHWANDER.

SHOE.

APPLICATION FILED JAN. 8, 1916.

1,201,879. Patented Oct. 17, 1916.

Fig. 1.

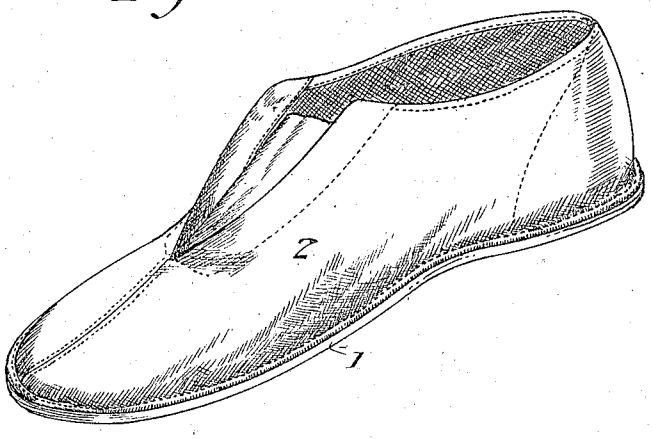


Fig. 2.

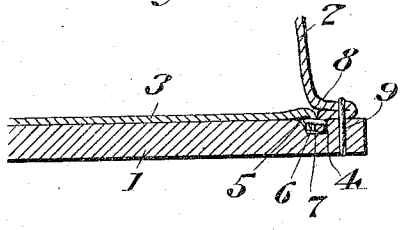
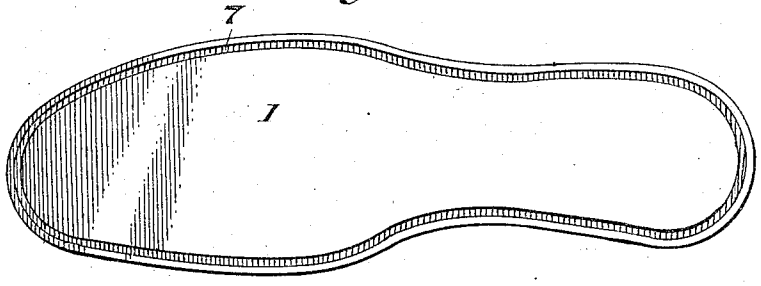


Fig. 3.



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SHOE.

1,201,879. Specification of Letters Patent. Patented Oct. 17, 1916.

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To all whom it may concern:

Be it known that I, JACOB N. SCHWANDER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Shoes, of which the following is a specification.

This invention relates to improvements in shoes and like articles of foot wear, the object of the invention being to provide a shoe which is especially designed and constructed to present a soft sole, rendering the shoe of maximum comfort and ease to the wearer.

A further object of the invention is to provide a shoe which avoids lasting and channeling, as well as the use of an ordinary comparatively stiff inner sole, and which also obviates the use of seams upon the interior of the shoe which are liable to hurt or cause discomfort to the foot of the wearer.

The invention consists of the features of construction, combination and arrangement of parts herein fully described and claimed, reference being had to the accompanying drawing in which:—

Figure 1 is a perspective view of one form of shoe constructed in accordance with my invention. Fig. 2 is a vertical transverse section through one side of the upper and a portion of the sole, and showing the soft inner lining and mode of connecting the parts. Fig. 3 is a top plan view of the sole.

In carrying my invention into practice, I provide a shoe comprising a sole 1, an upper 2 and a soft inner sole lining 3.

The sole 1 may be made of leather or other suitable material, and of proper thickness for wear, and which may be of any desired degree of flexibility, some suitable soft and yet strong and durable leather being preferred. The upper 2 may be made of any suitable kind of soft leather, while the lining 3 is also made of soft leather, and which is also comparatively thin. In practice, the upper and lining may be made of the same kind of leather, if desired, and the lining forms with the upper a shoe body of sock-like softness which makes the shoe easy and comfortable to the foot of the wearer.

In order to avoid the production of any internal seams, ridges or projections of any kind liable to hurt or injure the foot of the wearer, I provide novel means for uniting the meeting edges of the upper and lining to each other and to the sole 1. To this end, the meeting edges 4 and 5, respectively, of the upper and lining are turned outward and united by thread stitching 6, and the seam thus formed is projected downwardly and arranged to lie within a groove or depression 7 in the upper face of the sole 1, said groove or depression being formed by creasing the sole so as to make an indentation of the required form and depth in the upper surface thereof. The leather of which the sole is made being comparatively soft will allow this to be done, and at the same time avoid the necessity of channeling or otherwise positively cutting into the leather. The connecting seam between the upper and lining being thus produced, thus forming a sock-like shoe body, and the seam fitted within the groove of the sole, a portion of the upper is then turned outwardly and folded upon itself to form a doubled flange 8 extending marginally around it, and this flange is then sewed to the edge of the sole 1 by means of a continuous line of stitching 9, as clearly illustrated in Fig. 2.

By the construction described a shoe is produced which is not only composed of soft and flexible component parts, but in which the connecting seam between the lining and upper is projected downwardly and confined within the groove in the sole, so as to allow the surface of the lining to lie flush entirely across the top of the sole, while the connecting seam between the sole and upper lies upon the outside of the shoe body, leaving no seams or other projections within the shoe to chafe or otherwise hurt or injure the foot. A type of shoe is thus made which may be constructed to fit the foot easily and snugly and which will yet be almost as soft and comfortable as an ordinary sock.

The invention may be employed in the production of all kinds of shoes, but particularly in the production of slippers, house-shoes, sporting shoes, etc., which should be of a comfortable character, the invention providing such a type of shoe which may not only be made as inexpensively or expensively as desired, but which will afford maximum ease and comfort to the wearer.

I claim:—

1. A shoe comprising an outer sole, an inner sole, and an upper having an outwardly extending marginal portion folded to present upper and lower plies, said marginal portion being secured to the outer sole by a seam passing through both plies and having

its lower ply secured to the inside sole independently of the remainder of the upper by a seam located inside of said outside seam.

2. A shoe comprising an outer sole, an inner sole or lining, and an upper, said upper having a folded marginal portion presenting upper and lower plies, a line of stitching passing through both of said plies and the outer sole and securing the same together, the lower ply of said folded marginal portion being provided with a free edge, and a line of stitching uniting said free edge of said lower ply to the marginal edge of the lining or inner sole free and independent of the body of the upper.

3. A shoe including an outer sole, an inner sole or lining having a downturned marginal edge, an upper having an outturned margin folded upon itself to provide upper and lower plies, the lower ply having an edge portion disposed in proximate and parallel relation to the downturned marginal edge of the inner sole or lining, a line of stitching passing through the outer sole and both plies of the folded marginal portion of the upper and securing the same together, and a line of stitching passing through the proximate edge portions of the inner sole or lining and the lower ply of said folded marginal portion of the upper and connecting the same independently of the body of the upper.

4. A shoe including an outer sole, an inner sole or lining, and an upper, said upper having a marginal portion folded to present upper and lower plies, both of said plies being secured to the sole by an outside seam and the lower of said plies being secured to the inner sole by an inside seam, independently of connection with the body of the upper.

5. A shoe including an outer sole, an inner sole or lining, an upper having an outwardly extending marginal portion folded to present upper and lower plies, a line of stitching connecting both of said plies with the outer sole, and a line of stitching connecting the free edge of the lower ply, independently of the body of the upper, with the marginal edge of the lining or inner sole.

6. A shoe comprising an outer sole, an inner sole or lining, and an upper having a marginal portion folded upon itself to present an upper-outwardly extending ply and a lower inwardly extending ply, the said plies being united to the outer sole beyond the line of the body of the upper and the inner ply being united solely to the inner sole or lining below the horizontal plane of the upper surface of said ply and lining.

7. A shoe comprising a sole, a soft lining for the upper surface of the sole, and an upper, said lining and upper being united by a seam, and the upper being connected with the sole by a seam, the sole being formed with a groove receiving the first-named seam below the plane of the surface of the lining.

8. A shoe comprising a sole having a marginal groove in its upper surface, a soft lining for the upper surface of the sole, and an upper having an outturned portion united to the sole and having an edge portion connected with the edge portion of the lining by a seam, said seam occupying said groove in the sole below the surface of the lining.

9. A shoe comprising a sole having a marginal groove in its upper surface, a lining extending across the upper surface of the sole, and an upper marginally secured to the lining by a seam projecting into said groove and having an outwardly projecting portion united on the outside of the shoe to the marginal portion of the sole.

10. A shoe comprising a sole having a marginal groove in its upper surface, a lining for the upper surface of said sole, and an upper, said upper being secured by a seam to the lining and by a second seam outside of the first-named seam to the sole, the first-named seam being inclosed within said groove.

11. A shoe comprising a sole having a marginal depression in its upper surface, a soft lining for the upper surface of the sole, and an upper, said lining and upper having out-turned marginal portions united to form a seam occupying said depression below the plane of the surface of the lining, and said upper having a doubled portion folded outwardly in the form of a flange united by a seam to the marginal portion of the sole outwardly beyond the line of said depression.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB N. SCHWANDER.

Witnesses:
JESSE HAMBURGH,
SAMUEL GRANT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."