

I. BARSHATSKY.

SHOE.

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2 SHEETS—SHEET 1.

1,413,888.

Fig. 1.

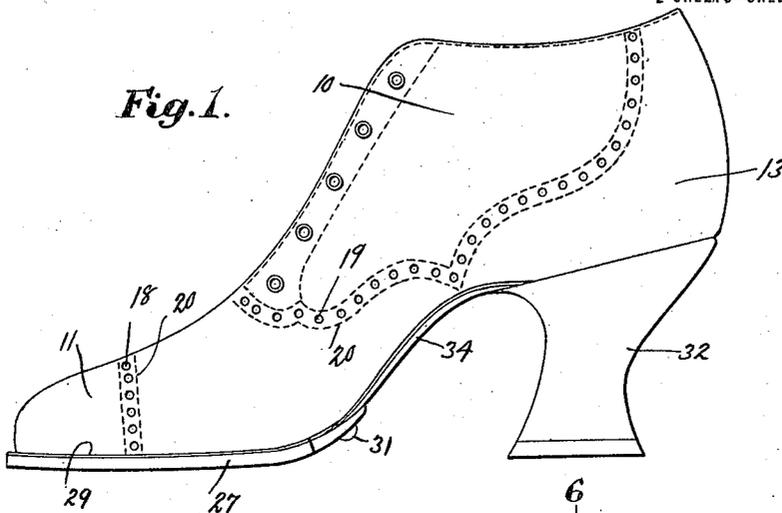


Fig. 2.

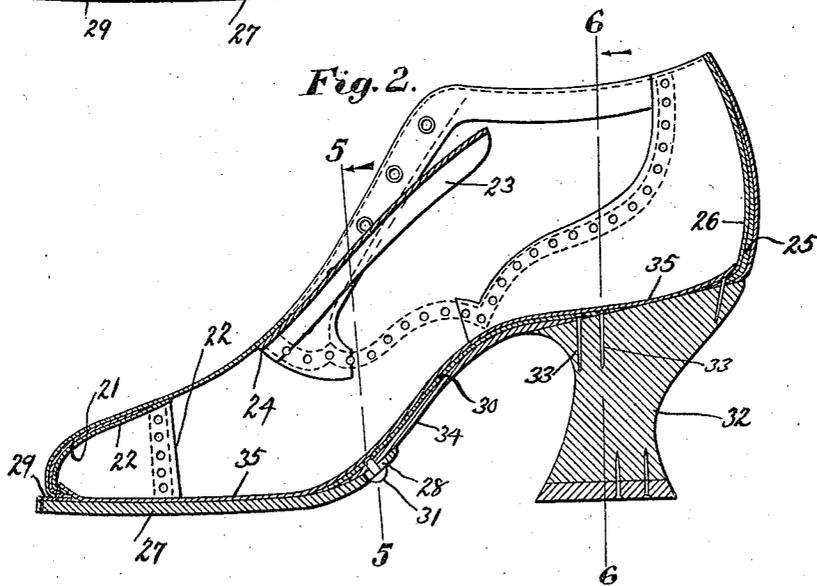
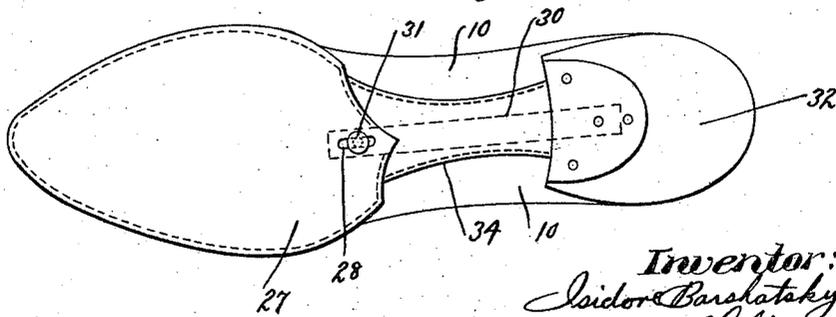


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SHOE.

1,413,888.

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To all whom it may concern:

Be it known that I, ISIDORE BARSHATSKY, a citizen of the United States, residing at Roxbury, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Shoes, of which the following is a specification.

This invention has for its object to provide a novel and practical hygienic and sanitary shoe, which, while additionally possessing the usual characteristic features of an ordinary shoe of the higher grade, is capable of being manufactured for much less than the present cost, since my type of shoe is designed to eliminate considerable of the costly operations attending the manufacture of the ordinary shoe as well as permitting the use of less expensive parts in the make-up thereof, as described and set forth in the following description.

Another object is to provide a shoe in which the upper is made from a single piece of material, the sole is of the half-sole type, and the shank is reinforced to form a perfect arch support with a flexible connection between the sole and shank for affording perfect flexibility to the shoe.

Still another object is to provide a shoe, incorporating the aforesaid features, which is light-weight and comfortable wearing, and which may be designed to include a ventilating feature in the upper of the same, thus providing a shoe which is simple and inexpensive to manufacture, possessing features which are advantageous to the health and comfort of the wearer and not embodied in the ordinary types of shoes.

In order to illustrate my invention I have shown in the accompanying two sheets of drawings an embodiment thereof as applied to ladies' shoes of the Goodyear type, but it will be noted that the same is applicable to McKay and men's shoes as well. Therefore I do not wish to be limited to the specific showing of my invention as embodied in the drawings, wherein:

Fig. 1 represents an elevational view of a shoe embodying my invention;

Fig. 2 represents a longitudinal sectional view taken through the shoe shown in Fig. 1;

Fig. 3 represents a bottom view of the shoe shown in the preceding figures;

Fig. 4 represents a development of the upper of the shoe which is made from a single piece of material;

Fig. 5 represents a sectional view taken on line 5—5 on Fig. 2;

Fig. 6 represents a sectional view taken on line 6—6 on Fig. 2; and

Fig. 7 represents a fragmentary view of the shoe showing the same in the bending position.

The terms employed herein are used in the generic and descriptive sense to designate the elements illustrated, and are therefore not intended to be used as terms of limitation.

Like numerals refer to like parts throughout the several views of the drawings.

The numeral 10 represents the upper of the shoe which is made of any suitable, flexible material, as leather, felt, canvas, or the like, and cut from a single piece of material on the lines of the development D shown in Fig. 4, wherein 11 represents the toe section, 12 the vamp, 13 the heel or counter section, 14 the instep, 15 the instep opening, 16 the heel edges, which are stitched together at the back of the heel of the shoe, and 17 the upper top. 18 represents toe ventilations or perforations, 19 the upper ventilations or perforations, and 20 represents conventional stitching located at the portions of the upper where ordinarily the parts thereof join together.

21 represents the usual toe-stiffening cap which is covered with the toe-cap lining 22 (Fig. 2). 23 represents the tongue-piece which is secured to the upper at 24 in any suitable manner. 25 represents the shoe counter and 26 the counter covering lining. 27 represents the sole of the shoe which is made of suitable sole leather and extends rearwardly beyond the ball of the foot, being preferably provided with the elongated rivet opening 28 and secured to the upper in any suitable manner, as by the welt 29 (Fig. 2). 30 represents the stiff metallic shank-piece which carries on the forward end thereof the stud or rivet 31 rigidly secured thereto to form part thereof, which rivet projects through the elongated slot or opening 28 provided therefor in the sole 27 of the shoe. Said shank-piece 30 is secured at the heel section thereof to the heel 32 in any suitable manner, as by means of the nails 33 shown in Fig. 2. 34 represents a leather shank-piece which has the heel end thereof covered by the heel of the shoe and the toe end by the sole 27, as shown in Figs. 2 and 3, and the sides preferably stitched to the upper, as shown in Fig. 3, for including the metallic shank-piece 30 therebetween. 35 represents the inner sole of the shoe which

preferably covers the entire bottom of the shoe from heel to toe.

Having thus described the parts of my invention in detail, it will be observed that the shoe disclosed herein takes on the usual outward appearance of the ordinary shoe. Furthermore, it will be observed that the shoe embodies the characteristic features of the higher grades of shoes, both as to style and as to construction, but nevertheless involves a construction that is entirely foreign to the usual and ordinary makes of shoes. The within departure from the conventional practice employed in the art is responsible for providing a shoe which, while made up along hygienic and sanitary lines and possessing the general appearance of the customary types of shoes with more flexible and comfortable wearing qualities thereto, is less expensive to manufacture and permits of more easy and less costly repairing work to be done therewith, when necessary, without altering the original appearance of the shoe so repaired.

It will thus be observed that the shoe in the main is constructed with an upper cut from a single piece of flexible material, as leather, canvas, cloth, or the like and stitched together at the back or heel section thereof. Therefore, it will here be understood that the usual stitching operations attending the making up of uppers of separate pieces for the toe, vamp, heel and the like are hereby eliminated, and a saving of labor consequently results therefrom. The upper may be perforated, as shown, with the perforations 18 and 19 distributed in any suitable manner and wherever most desirable, or may follow the usual bordering outline of the sections of the upper, as suggested in the drawings, with or without the stitching 20 about the same, which is merely intended for finishing purposes and for permitting the shoe to take on the outward appearance of the ordinary pieced upper types of shoes.

It will further be observed that the shoe is made up without a vamp lining, which lightens the weight of the shoe, eliminates the labor attached to the same, tends to make the shoe more flexible and more comfortable to wear, and at the same time permits the perforations to be full open to the foot of the wearer and yields a reliable ventilating feature to the shoe.

The upper is preferably designed to permit the arch section thereof to butt together, as shown in Fig. 5, so that the metal shank-piece 30 may preferably be securely included between the upper and the stiffening leather shank-piece 34 which is stitched to the upper as suggested in Fig. 3, or to both the upper and inner sole, as shown in Fig. 5 if desired: thus providing an absolutely reliable and reinforced arch support for the shoe.

As already suggested and as shown in the drawings, the sole of the shoe is of the so-called half-sole type as against the whole-sole types employed with the ordinary makes of shoes. This use of the half-sole reduces the cost of the shoe and allows for ready replacement thereof when the same becomes worn. Also, the employment of the half-sole in the shoe permits of its being joined at the rear of the ball portion thereof with the shank-piece through the rivet 28 working in the elongated rivet slot which provides a flexible jointed shoe yielding easily at the ball portion thereof where the bending naturally occurs.

Therefore, the invention presents a simple and inexpensive shoe, which eliminates several of the costly operations of the ordinary and customary types of shoes, as well as incorporating the use of less expensive parts than what are used with said latter types of shoes. Together with greatly reducing the cost of the manufacture of the shoe, the invention provides for a ventilated shoe which is designed to give comfort and to be flexible and durable.

While the preferred embodiments of my invention have been described in detail, it will be understood that I do not wish to be limited to the particular construction set forth, since various changes in the form, material, proportions and arrangement of parts, and in the details of construction may be resorted to without departing from the spirit and scope of the invention, or destroying any of the advantages contained in the same, heretofore described and defined in the subjoined claims.

Having thus described my invention in detail, what I claim as new is:

1. A shoe having a half-sole terminating in the rear of the ball of the foot and at that point floatably joined with a shaped stiff shank-piece for localizing and effecting an easy bending action to the ball section of the forepart of said shoe.

2. A shoe having a flexible bottom comprising a heel, arch and half-sole each secured to the upper with the arch secured between and to said heel and half-sole, said arch being provided with a metallic shank-piece embedded therein and secured to the heel at the heel end thereof and provided at the forward end with a protruding and headed stud adapted to engage with an elongated slot provided therefor in the rear section of the half-sole for effecting a flexible joint between said arch and the latter.

In testimony whereof I have affixed my signature, in presence of two witnesses.

ISIDORE BARSHATSKY.

Witnesses:

B. H. CHERTOK,

DAVID LICHTENSTEIN.