

M. J. S. FALCON.

WOODEN SOLED BOOTS AND SHOES.

No. 170,161.

Patented Nov. 23, 1875.

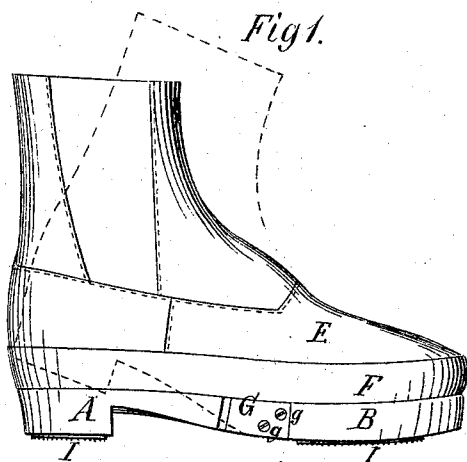


Fig 2.

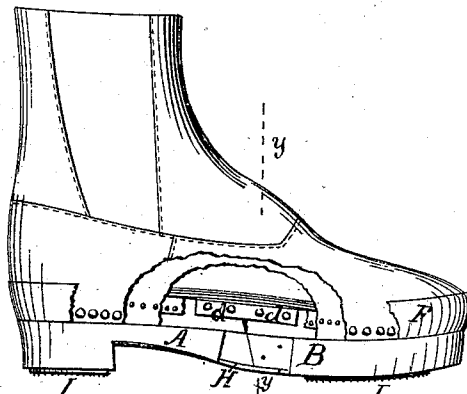


Fig 3.

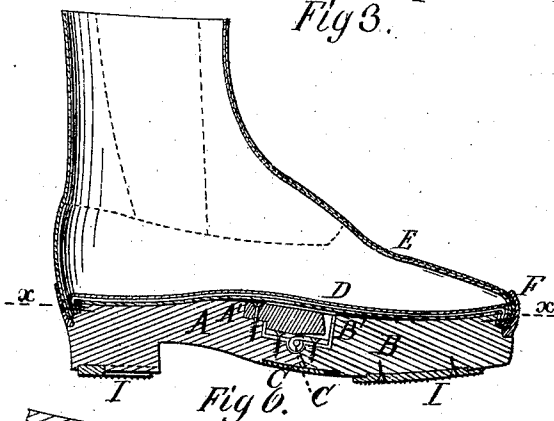


Fig 4.

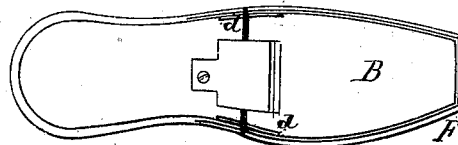


Fig 5.

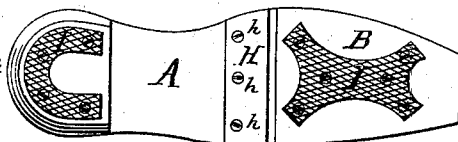


Fig 6.

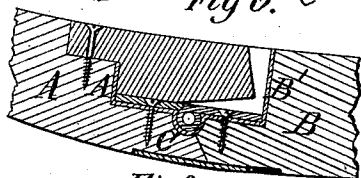


Fig 7.

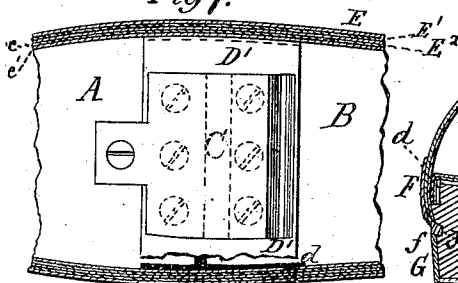


Fig 8.

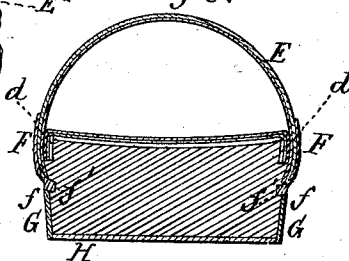


Fig 9.

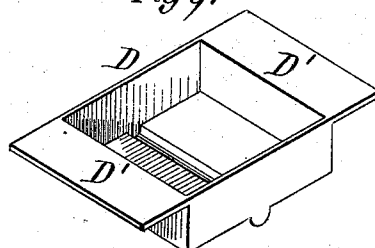
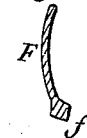


Fig 10.



Witnesses:

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UNITED STATES PATENT OFFICE.

MANUEL J. SILVER FALCON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WOODEN-SOLED BOOTS AND SHOES.

Specification forming part of Letters Patent No. **170,161**, dated November 23, 1875; application filed October 11, 1875.

To all whom it may concern:

Be it known that I, MANUEL J. SILVER FALCON, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Shoes and Boots with Wooden Soles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side elevation of my improved shoe. Fig. 2 is a similar view, with a portion of the upper-leather, and lining, and packing, and finishing-strip broken away for the purpose of showing the manner of fastening the wings of the india-rubber packing-box. Fig. 3 is a longitudinal central section of Fig. 1. Fig. 4 is a top view of the wooden shoe-sole, the abutment-block in place, but the packing-box is not in its position underneath the same. Fig. 5 is an inverted plan of the shoe. Fig. 6 is an enlarged vertical section of a portion of the shoe-sole on the line *x x*, Fig. 4. Fig. 7 is a horizontal section of the shoe just above the abutment-block, the packing-box being in position under said block; and Fig. 8 is a transverse section on the line *y y*, Fig. 3. Fig. 9 is a perspective view of the water-proof packing for the hinge-joint; and Fig. 10 is a cross-section of the india-rubber finishing-strip, showing its corded or beaded lower edge.

My invention relates to certain improvements in the jointed-sole boot or shoe patented by me August 10, 1875; and consists in certain constructions and combinations of parts, as hereinafter described and specifically claimed, whereby the same is rendered more thoroughly water-proof and better adapted for wear in wet and snowy weather.

In the drawing, A and B are the two parts of a wooden sole for a shoe or boot, joined together by a hinge, C, let down into recesses A' B' in the respective parts of the sole.

The details of the construction and arrangement of this part of my invention, including the joint, hinge, and packing, are the same as fully set forth in a former patent granted to me August 10, 1875, for improvement in wooden-soled boots and shoes, except as herein otherwise specifically described.

On the top of the hinge C, and around the

walls of the cavity formed by the recesses A B', a rubber packing, D, of box form, and having wings D', as represented in Fig. 9, is placed, so as to close the crevices about the hinge, which lead to the interior of the shoe by way of the joint form *d* in the sole. These wings D' D' project outwardly and cover the joint in the top of the sole at each side of the box D, and are brought down over the edge of the sole into counter-rabbets *d d*, where they are fastened by means of rivets or tacks, as shown at *d'*, Figs. 2 and 8. The joint in the sole, from the top down to the bottom of the rabbet formed for the reception of the upper-leather and lining, is thus securely covered and made water-proof without, in any way, interfering with the free action of the joint. E E' E'' e e' represent the upper and various linings and packings employed to render the shoe comfortable and impervious to water. These various linings and packings are also constructed and arranged the same as in my former patent already referred to, except as hereinafter otherwise set forth.

In my former patent of August 10, 1875, copper tacks were required to fasten the upper-leather, packing, and other parts to the wooden sole, copper not being liable to rust on being exposed to dampness; but now, and by use of my present invention, iron tacks may be employed, for, in place of the finishing-strip, made of leather, which in my former patent was tacked over the seam formed by the joining of the sole and upper, I now provide an india-rubber strip, F, which I fasten by means of a rubber or other water-proof paste, and which, while adding a finish to the appearance of the shoe or boot by covering the seam caused by uniting sole and upper, and the tack-heads by means of which they are fastened together, subserves a more important purpose—viz.; that of making the shoe or boot water-proof around the upper for a certain distance above the sole.

This strip F is made of one piece of india-rubber, having a welt or bead, *f*, formed on and around its bottom edge, which bead fits into the seam or groove running around the upper edge of the sole, and between the sole and the upper-leather of the boot or shoe, and which, while aiding to hold the strip in

place, also fills the seam around the sole, so that dirt or snow cannot enter. The strip F, being of india-rubber, may be made of such dimensions as to require a slight stretching in order to put it in position. It is then sprung over the base of the upper and around the rabbeted portion of the sole, and the tension draws the bead *f* closely into the seam, and this tension, in connection with the rubber or other water-proof paste, serves to hold the strip securely upon the boot or shoe.

In order, however, to secure the greatest degree of permanency to the strip F when once placed in position, I make it of such a width as will bring its upper edge up over the swell of the boot or shoe, thus causing it to operate in a similar manner to a rubber sandal, which it somewhat resembles; but the sandal-sole is not necessary here, as the wooden sole attached to the leather upper serves as a base for the strip to rest upon.

On each of the outer edges of the sole I place overlapping plates G, to cover the joint between the two parts A and B of the sole. These plates are slightly bent and sunken in, so as to correspond to the contour of the edge of the sole, and are fastened at the forward end by screws *g* to the part B of the sole and left free at the other end, and thus act as a preventive against snow or dirt working into the crevice, and at the same time do not interfere with the articulations of the joint.

On the bottom of the shoe I also place a curved plate, H, running transversely across the sole, which is also let into the bottom, so as to present, in connection with it, a smooth outer surface, as shown in Fig. 5. This plate H is fastened at the edge nearest the heel by

screws, as at *h*, and serves to prevent dirt and snow from getting into the joint between the two parts A and B. It does not impede or hinder the free movement of the joint.

I also place on the bottom, instead of brads or nails, roughened or serrated plates I, which prevent the feet from slipping, and at the same time are not calculated to injure the carpets, &c., if worn in a house. They may be constructed in various shapes, so as to ornament the bottom of the boot or shoe, as well as serve a useful purpose.

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

1. The combination, with a jointed wooden-soled boot or shoe, of the india-rubber strip F, having the beaded edge *f*, substantially as and for the purposes described.

2. The combination, with a jointed wooden-soled boot or shoe, of the india-rubber packing-box D, having wings D' D', constructed and arranged substantially as and for the purposes set forth.

3. The combination, with a jointed wooden sole for boots and shoes, of the metal strips or plates G G and H, substantially as and for the purposes described.

4. A jointed wooden sole for boots and shoes, having the winged packing-box D D', the rubber strip F, the lapping strips G, and the plate H, substantially as and for the purposes described.

MANUEL J. SILVER FALCON.

Witnesses:

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