

C. S. DUNBRACK.
INSOLE FOR MANUFACTURING SHOES.

No. 108,985.

Patented Nov. 8, 1870.

Fig 1

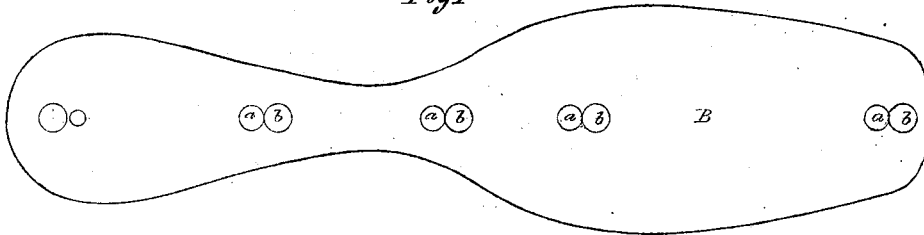


Fig 2.

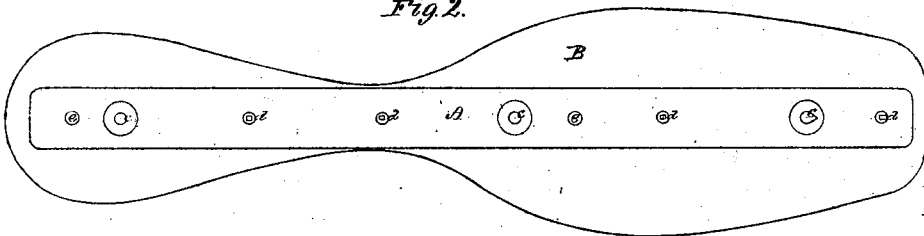


Fig 4.

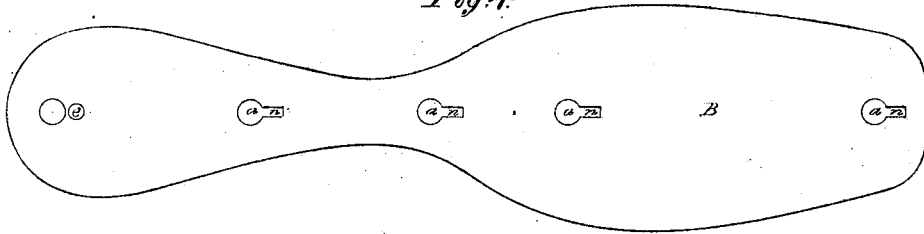


Fig 3.

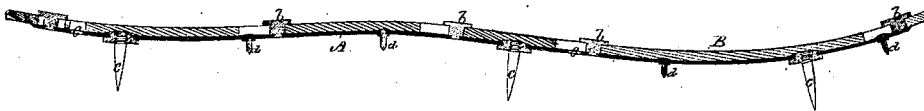
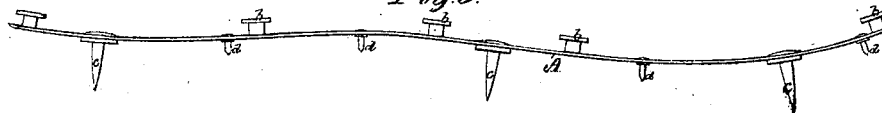


Fig 5.



Witnesses

S. A. Piper.
J. Adams.

Charles S. Dunbrack.

by his attorney.

N. M. Ledy.

United States Patent Office.

CHARLES S. DUNBRACK, OF SWAMPSCOTT, MASSACHUSETTS.

Letters Patent No. 108,985, dated November 8, 1870; antedated November 7, 1870.

IMPROVEMENT IN INSOLES FOR MANUFACTURING SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

To all persons to whom these presents may come:

Be it known that I, CHARLES S. DUNBRACK, of Swampscott, of the county of Essex and State of Massachusetts, have invented a new and useful invention having reference to, or to be employed in or for, the Making of Shoes; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, of which—

Figures 1 and 2 are views of opposite sides; and

Figure 3, a longitudinal section of the false inner sole and its carrier, as invented by me, and to be employed in the lasting of the upper of a shoe, and the application of an outer sole to such upper preparatory to the sewing of such sole and upper or vamp together, by sewing going through the two and around the margin or edge of the false inner sole or upper-supporter. The false inner soles heretofore used generally have been made of metal, and have had the centering-pins and spurs projected from them, such requiring a separate set of such pins and spurs for each of such false inner soles.

In carrying out my present improvement, I combine the holding-spurs and the centering-pins, or either, with a carrier consisting of a long strip of metal or other suitable material, separate from the false inner sole or upper-supporter, and I provide such strip with means, in whole or in part, of radially connecting it with and disconnecting it from a false inner sole. Such enables a series of false inner soles of different sizes to be used with one carrier, and also admits of such false inner soles being made of leather or other suitable material other than metal, thereby avoiding the danger of breakage of a needle while the upper is being sewed to the outer sole, which is liable to result by the needle, while in operation, striking or being driven against the false inner sole when made of metal.

Each of the false inner soles of the series I usually construct as shown in side view in Figure 4—that is, with a series of holes, *a a a a*, made through it, each hole having a notch, *n*, leading from it in manner as represented.

These holes and notches I arrange in the medial line of the false inner sole, and they are to co-operate with a series of buttons or headed projections, *b b b b*, extended from the carrier, as shown in figs. 1 and 3, and more particularly in Figure 5, which is an edge view of such carrier.

In the drawing the carrier is shown at A, and the separate false inner sole at B.

The outer sole centering-points or pins are shown at *c c c*, and the spurs at *d d d*, as extended from the outer surface of the carrier.

Holes, *e e*, are also made through the carrier and the false inner sole, such holes being to receive pins for pinning the carrier and the false inner sole to a last, or centering the false inner sole relatively thereto.

In lasting an upper or vamp by means of the carrier and false inner sole or vamp-supporter, as described, I usually lace the lasting-thread about the spurs in a manner to enable such thread not only to be readily separated therefrom during the process of extracting the carrier and false inner sole from the vamp and sole after the sewing of the two may have been effected, but also to admit of such thread being drawn out of the vamp. To accomplish this I do not carry the thread entirely across the false inner sole, but only partially so, and hitch or loop the thread on the spurs from time to time, as the thread may progress about the false inner sole.

In fixing a false inner sole to the carrier, we have only to insert the buttons of the latter in the button-holes of the false inner sole, and afterward move the said false inner sole endwise, so as to cause the shanks of the buttons to enter the notches *n*, diverging from the button-receiving holes.

I claim—

1. The combination of the separate carrier A with the false inner sole B, the said carrier and false inner sole being provided with means of connecting and disconnecting them, as set forth.

2. The false inner-sole carrier, as provided with the centering-points *c*, the spurs *d*, and the buttons *b*, for connecting such carrier to a false inner sole, as explained.

3. The carrier and the false inner sole, as provided not only with the centering-pins and the spurs, and the buttons for connecting the carrier and false inner sole, but as having the centering-holes *e* formed through the said carrier and the false inner sole, such being for the purposes as explained.

4. The false inner sole, as made or provided with the holes *a* and notches *n*, or their equivalents, for connecting or aiding in connecting such sole with a carrier, substantially as explained.

CHARLES S. DUNBRACK.

Witnesses:

R. H. EDDY,
J. R. SNOW.