

(No Model.)

M. WALKER.

2 Sheets—Sheet 1.

PLOW SHOE.

No. 332,463.

Patented Dec. 15, 1885.

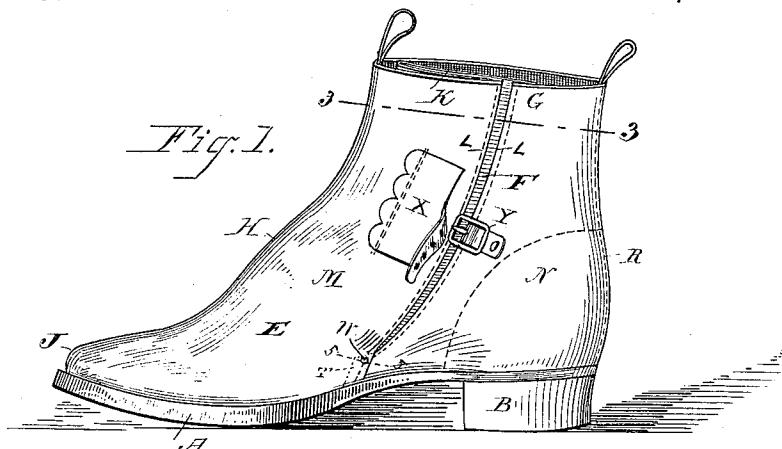


Fig. 5

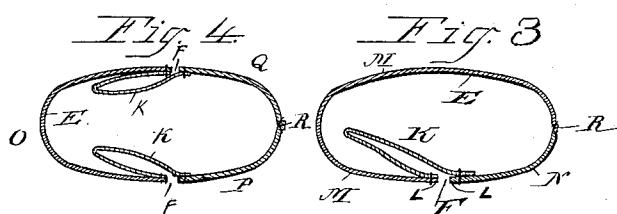
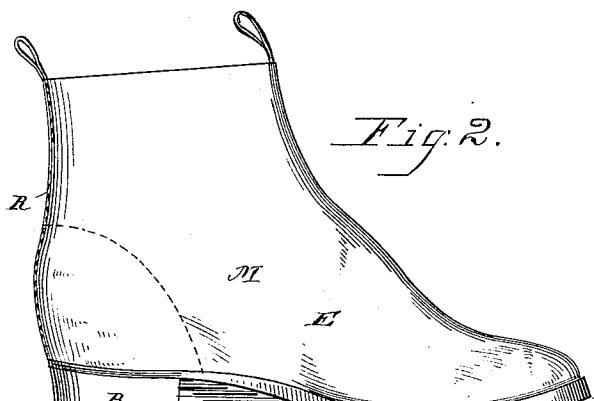


Fig. 2.



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(No Model.)

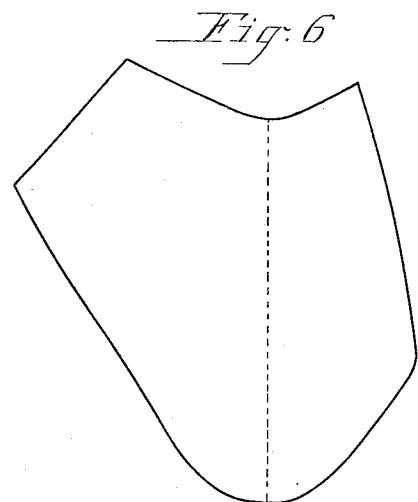
M. WALKER.

2 Sheets—Sheet 2.

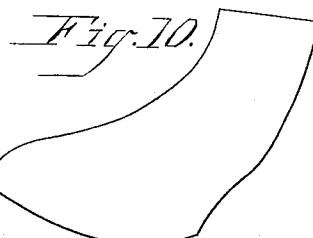
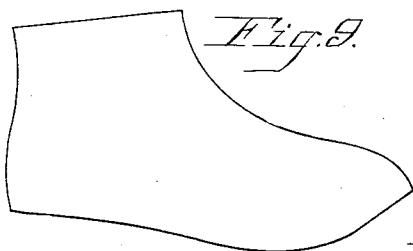
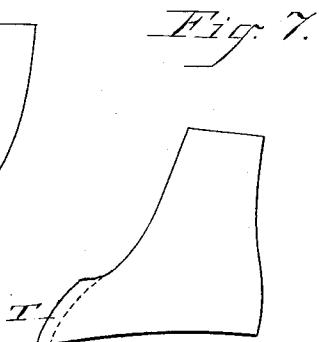
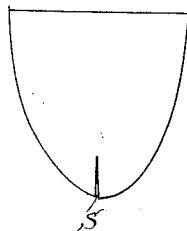
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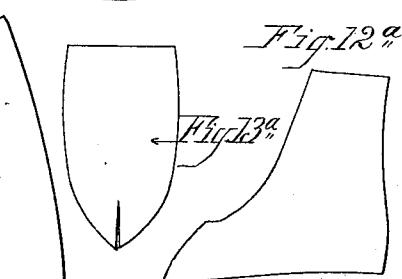
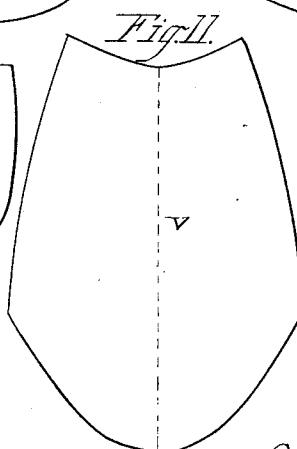
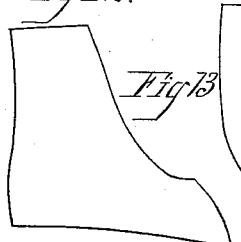
Patented Dec. 15, 1885.



*Fig. 8.*



*Fig. 12.*



*Fig. 13a.*

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Attorneys.

# UNITED STATES PATENT OFFICE.

MARCELLUS WALKER, OF CAMBRIDGE, MASSACHUSETTS.

## PLOW-SHOE.

SPECIFICATION forming part of Letters Patent No. 332,463, dated December 15, 1885.

Application filed September 8, 1885. Serial No. 176,534. (No model.)

*To all whom it may concern:*

Be it known that I, MARCELLUS WALKER, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Plow-Shoes, of which the following is a full, clear, and exact description.

This invention relates to plow-shoes in which the upper is adapted to be opened out at and about its ankle and instep portion, so as thereby to enlarge it for being placed upon and then to be closed and secured about the foot; and the main object of this invention is to reduce the number of pieces and seams in the upper, to render the shoe most easy to be put on and taken off, and to bring the line of strain of the fastening means in the most efficient direction for securing the shoe to the foot, and thus to prevent slipping at the heel and instep, and in general to improve its whole appearance and construction.

In this improved plow-shoe the upper has a slit or cut on either one or both of its sides, one side only being most preferable, which in each instance extends from the open end or mouth of the shoe downward, and in a direction more or less corresponding to the outline of the upper lengthwise over its instep, and nearly to the sole, toward the toe and under the instep of the shoe, and each of said slits is closed with a gusset, which is stitched to the opposite edges thereof, and is capable of being folded or doubled upon itself, and the whole made secure against opening with a strap-and-buckle attachment, all substantially as herein-after described.

In the accompanying drawings, forming a part of this specification, the present improved plow-shoe is illustrated.

Figures 1 and 2 are views of opposite sides of a shoe having its upper slitted only on one of its sides. Fig. 3 is a horizontal section in line 3 3, Fig. 1. Fig. 4 is a similar horizontal section to Fig. 3, but of a shoe having its upper slitted or cut on its opposite sides. Fig. 5 is an enlarged sectional view on line 5 5, Fig. 1. Figs. 6 to 13, both inclusive, and Figs. 12<sup>a</sup> and 13<sup>a</sup> are views of the patterns necessary to make plow-shoes of this invention, and to be herein-after more particularly referred to.

In the drawings, A represents the sole, B the heel, and E the upper, of the improved

plow-shoe. The upper is attached to the sole in any of the ordinary ways, and the upper on one, Figs. 1, 2, and 3, or both of its sides, Fig. 4, has a slit or cut, F, running from the upper end or mouth, G, of the shoe in a direction downward, and more or less inclining and following the general outline or contour of the upper over its instep H, and toward the toe J, and under the instep of the shoe.

K is a gusset connected to the opposite edges, L, of the slit F of the upper, and closing said slit or cut. Each gusset is capable of being folded or doubled upon itself, as shown, Figs. 3 and 4, and it is stitched or otherwise secured to the upper. In the shoe shown in Figs. 1, 2, 3 the upper is in two pieces, M N, and in the shoe shown in Fig. 4 the upper is in three pieces, O P Q. The piece M of the upper or shoe, Figs. 1, 2, 3, is connected to the other piece, N, at the back by a back seam, R, and so connected it constitutes the whole of the upper, except that made by the piece N, and which extends from the back seam, R, and covers the foot at the back and forward therefrom on the side, making one edge of the slit or cut F, the other edge thereof being made by the piece M.

The patterns for making the shoe-upper in two pieces, as just above described, are shown in Figs. 6, 7, 9, and 10, Fig. 6 being the pattern for cutting the piece M, Figs. 9 and 10 the patterns for trimming or cutting the piece M after the same has been crimped to the proper shape, 85 and Fig. 7 the pattern for cutting the piece N. Fig. 8 is the pattern for cutting the gusset, shown slitted at S to receive the projecting part T of the piece N in the making of the shoe, as will hereinafter appear.

The piece O of the upper of shoe, Fig. 4, covers the front and instep of the foot, and the pieces P and Q the foot at each side and around the back and heel, where they are joined in the back seam, R, and the patterns for making this shoe are shown in Figs. 11, 12, and 12<sup>a</sup>, Fig. 11 showing the pattern for cutting the piece O, afterward crimped and fitted in its parts on opposite sides of the dotted line V, with patterns like that in Fig. 10; Figs. 12 and 12<sup>a</sup>, the patterns for cutting out the pieces P and Q each with a projecting part, T; Figs. 13, 13<sup>a</sup>, patterns for cutting and slitting the gusset.

In both forms of shoes the projecting part T

of the back piece or pieces of the upper is inside of the front piece of the upper, and it extends through the slits of the gusset, and it is stitched to part L, M, or O of the upper, and the upper end of the seam barred, as with a rivet, W, or otherwise.

Shoes made with a slitted upper and a gusset or gussets, as has been described, are provided with a strap, X, and a buckle, Y, attachment 10 for fastening the upper together at its slit or cut, and thus securing the shoe to the foot. As shown, only one strap and buckle attachment is used; but two or more may be used, or other obvious and well-known means may 15 be substituted for such attachment. The fastening strap and buckle are applied so as to act on the shoe in a diagonal direction across it, and from the instep downward and toward the heel thereof, thus securing the shoe closely 20 about the instep and tending to practically prevent movement of the foot in the shoe at the instep and heel.

The shoe described, in its upper, is made of few pieces and seams, and the direction of the 25 slit or cut in the upper renders the shoe most convenient and easy to be put on and taken off, improves the fit of the shoe upon the foot, and in general furnishes a most perfect plow-shoe. The upper at its slit or slits F, if so 30 desired, may be made to lap by each other.

It is not intended to limit this invention to any particular form of gusset or construction of same and manner of its attachment to the edge of the slit or cut of the upper.

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

1. A shoe having its upper cut or slitted on the side in a line extending from the top downward and forward toward the toe of the shoe, 40 said cut following substantially the longitudinal contour of the instep and terminating under the same, and having its edges connected by a folding gusset, and means for fastening the shoe upon the foot, substantially as described. 45

2. A shoe having its upper cut or slitted on the side in a line beginning at the top and extending downward and toward the toe, following substantially the longitudinal contour of the instep, and terminating under the same, 50 said slit or cut having its edges connected by a folding gusset, and closed by fastenings arranged and acting in a diagonal direction across the shoe from the instep downward and toward the heel, substantially as described. 55

3. A shoe having an upper composed of front and back pieces separated on the side by a slit, F, that extends from the top of the shoe downward and along the longitudinal contour of the instep toward the toe, the edges of said 60 slit or opening being connected by a folding gusset, K, having a slit, S, at its lower end for receiving a tail on the back piece of the upper, substantially as described.

In testimony whereof I have hereunto set 65 my hand in the presence of two subscribing witnesses.

MARCELLUS WALKER.

Witnesses:

Wm. S. BELLows,  
ALBERT W. BROWN.