

(No Model.)

C. A. HARMSTEAD.  
Breast Collar Stay Fastening.

No. 233,093.

Patented Oct. 12, 1880.

FIG. 1.

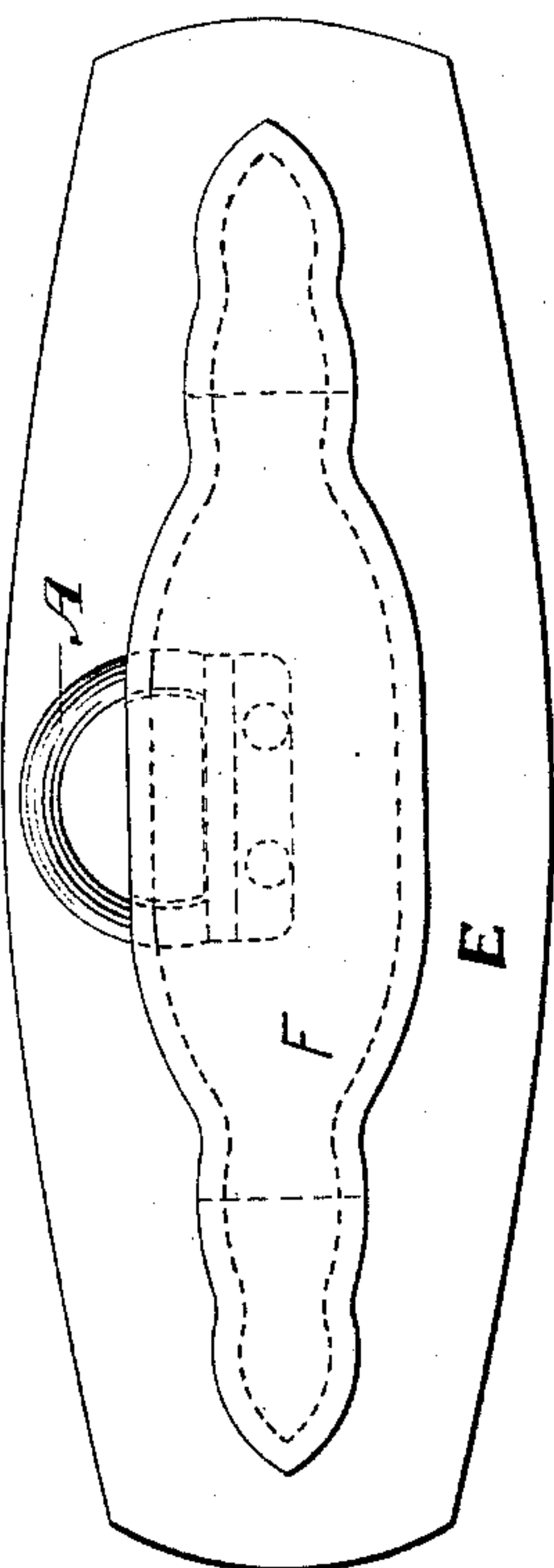


FIG. 2.

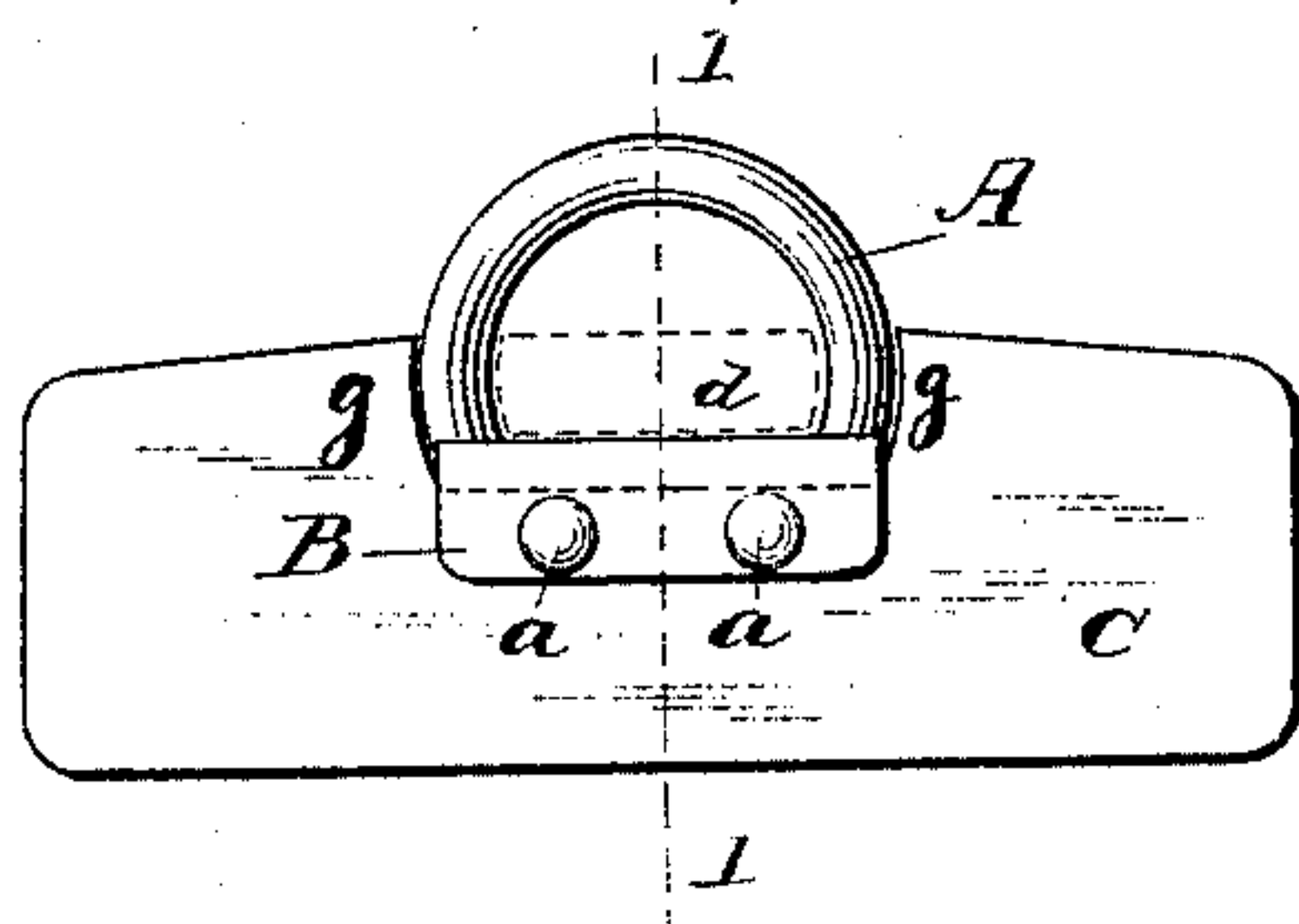


FIG. 3.

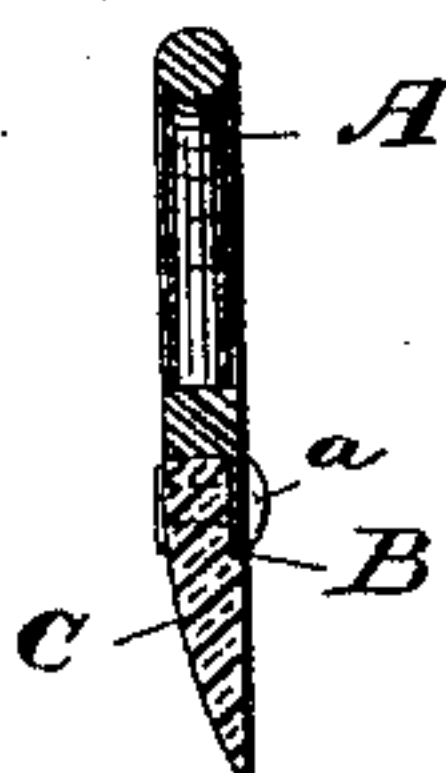
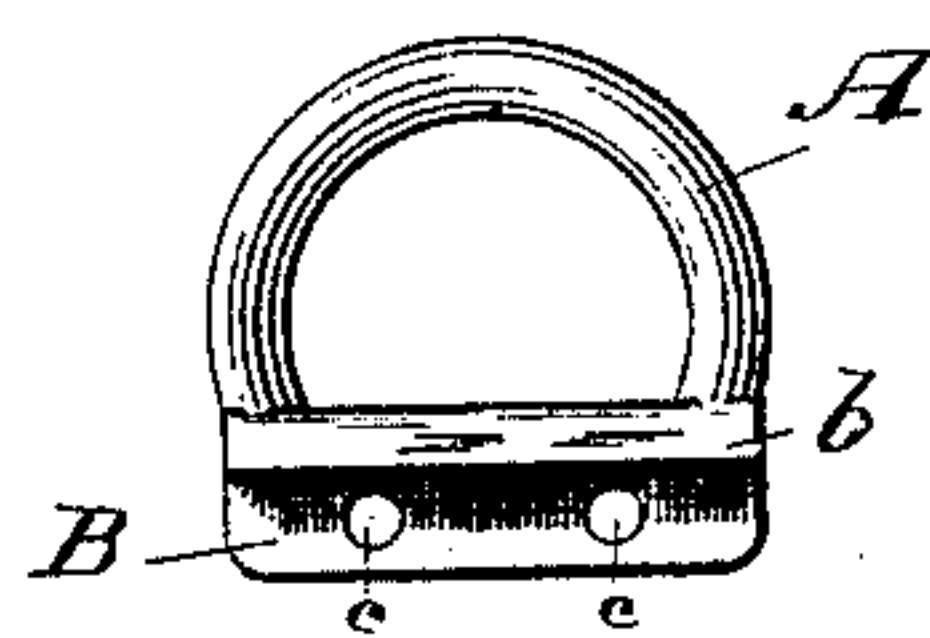


FIG. 4.



Witnesses:

*Wm J Johnston*  
*Percy Aughe*

Inventor

*Charles A Harmstead*  
By *J. H. McDonald*  
Att'y

# UNITED STATES PATENT OFFICE.

CHARLES A. HARMSTEAD, OF URBANA, OHIO.

## BREAST-COLLAR STAY-FASTENING.

SPECIFICATION forming part of Letters Patent No. 233,093, dated October 12, 1880.

Application filed July 16, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES A. HARMSTEAD, a citizen of the United States, residing at Urbana, in the county of Champaign and State of Ohio, have invented certain new and useful Improvements in Breast-Collar Stay-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to stay-fasteners for breast-collar harness.

The object of the invention is to provide a stay-fastener for breast-collar harness that may be readily inserted between the lug and fold of the breast-strap and be securely stitched thereto.

The details of construction will be hereinafter more fully set forth in the specification, and pointed out in the accompanying drawings, in which—

Figure 1 is a plan view, showing the stay-fastener secured to the breast-strap; Fig. 2, a side elevation of the stay-fastener; Fig. 3, a section of same on line 1 1, Fig. 2; and Fig. 4, an elevation of the metallic loop or ring and shouldered plate secured to the ring.

Like letters of reference refer to like parts in the several figures.

A is ring, made of metal, hard rubber, or any other suitable material, and has secured to it a holding piece or plate, B. This plate B has a shoulder, *b*, to which is attached the loop or ring A by solder or rivets, or the ring and plate can be struck up from a single piece of metal. The plate is perforated at *c c* for the passage of rivets *a a*, which secure a wedge-shaped piece of leather, C, to the plate. This

piece of leather C is cut away at its middle part for the reception of the ring A and plate B, as shown at *g g*, Fig. 2, the shoulder *b* resting on the lower part of the cut portion, and the sides *g g* extending upward along the bends in the ring about one-third the length of the bends. The piece C is inserted between the breast-strap piece E and the lug-piece F, and an additional piece, *d*, is then inserted between the bends of the ring, as shown. This piece *d* allows the stitching to be carried continuously between the bends of the ring, and gives an additional hold and bearing. The wedge-shaped piece C is from two and a half to three inches in length, and, as before stated, is stitched into the breast-piece E, giving it a hold of five or six inches of stitching instead of five or six stitches, as in the old method.

The objections to the present forms of stay are that they are not secure enough—that is, they are fastened by only a few stitches—and are easily torn out, and after the harness has been repaired a few times the lug becomes weak.

I am aware that stays have been made in which a slotted metal plate has been used for the purpose of sewing through the slot. Such form of plate I do not claim.

What I do claim as new, and desire to secure by Letters Patent, is—

In a stay-fastener for harness, the combination of the holding-ring A, having the plate B, provided with the shoulder *b* and perforations *c c*, attached thereto, with the wedge-shaped leather piece C, secured to plate B, and the holding-piece *d*, substantially as described.

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

CHAS. A. HARMSTEAD.

Witnesses:

G. J. WILLIAMS,  
J. S. DUFF.