

(No Model.)

C. ADLER.
OVERALLS.

No. 252,985.

Patented Jan. 31, 1882.

Fig. 3.

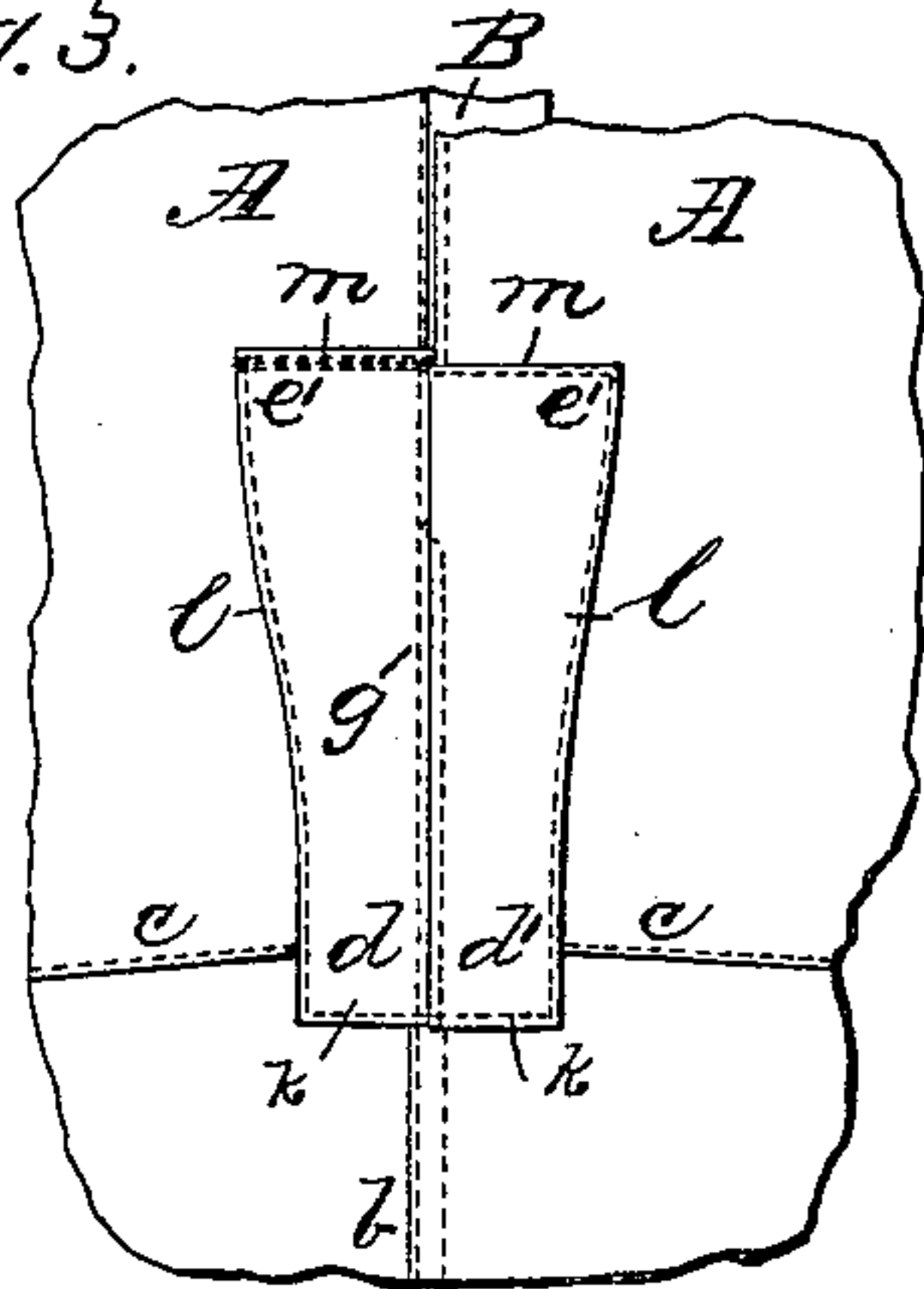


Fig. 4.

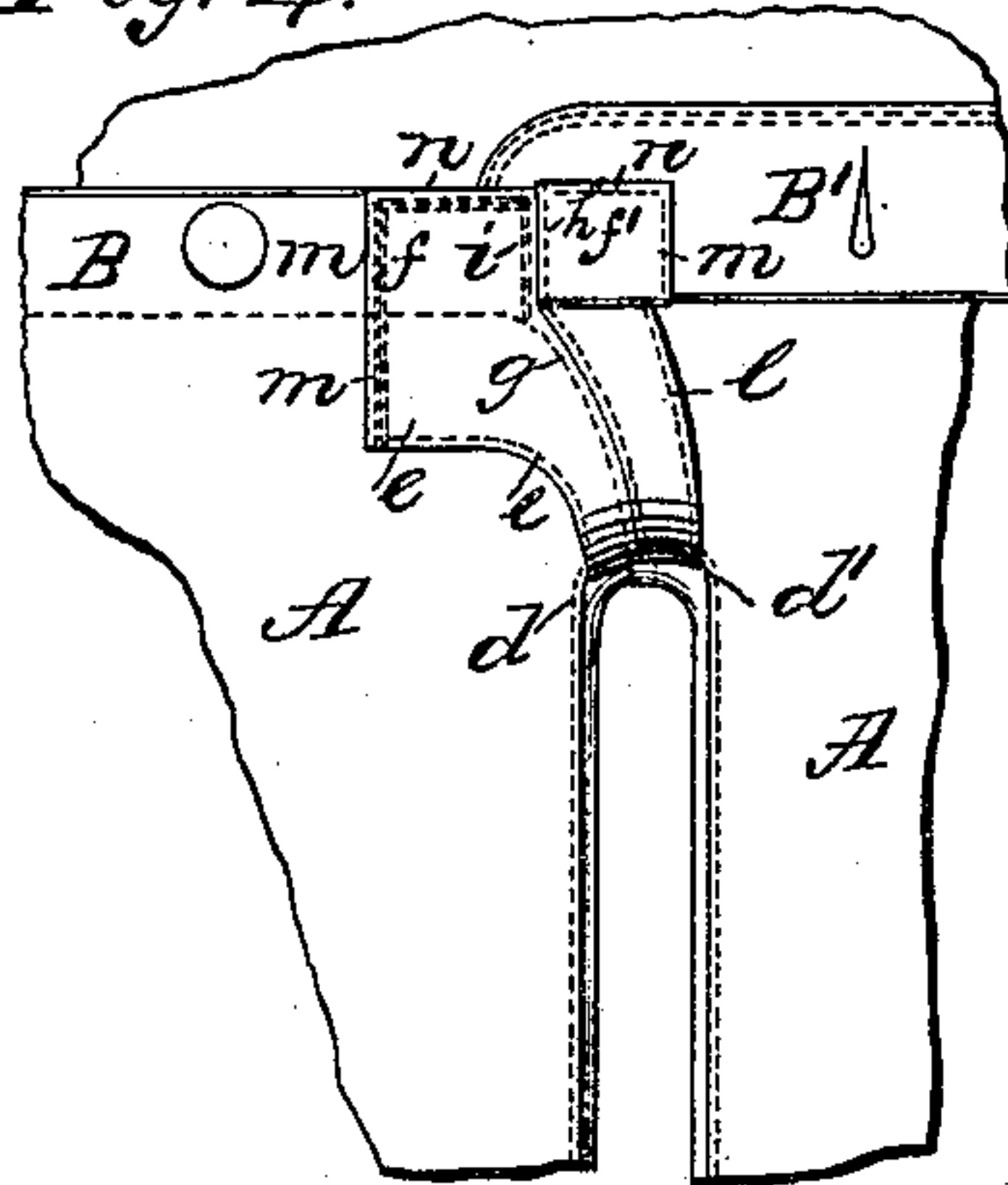


Fig. 5.

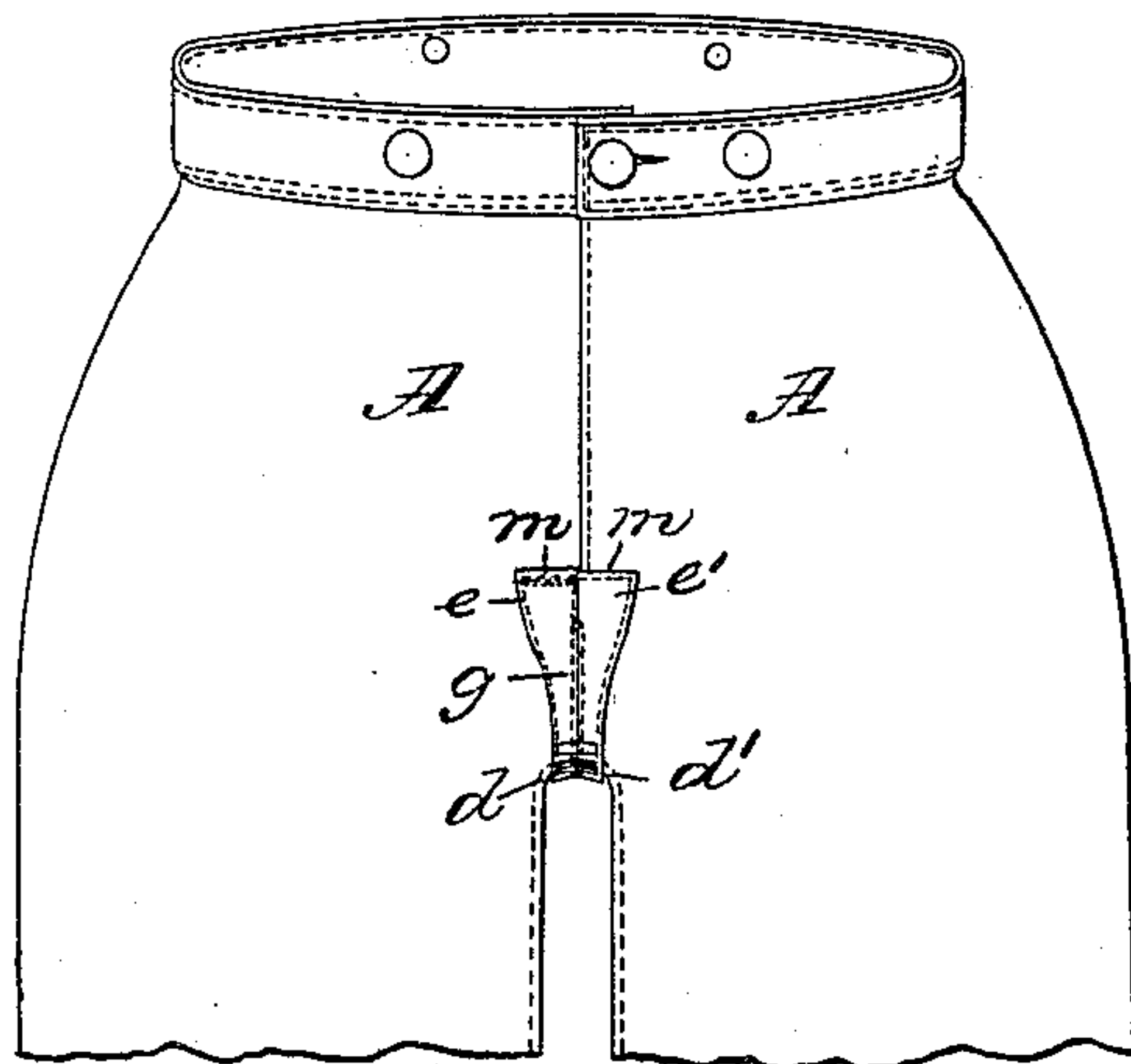


Fig. 1.

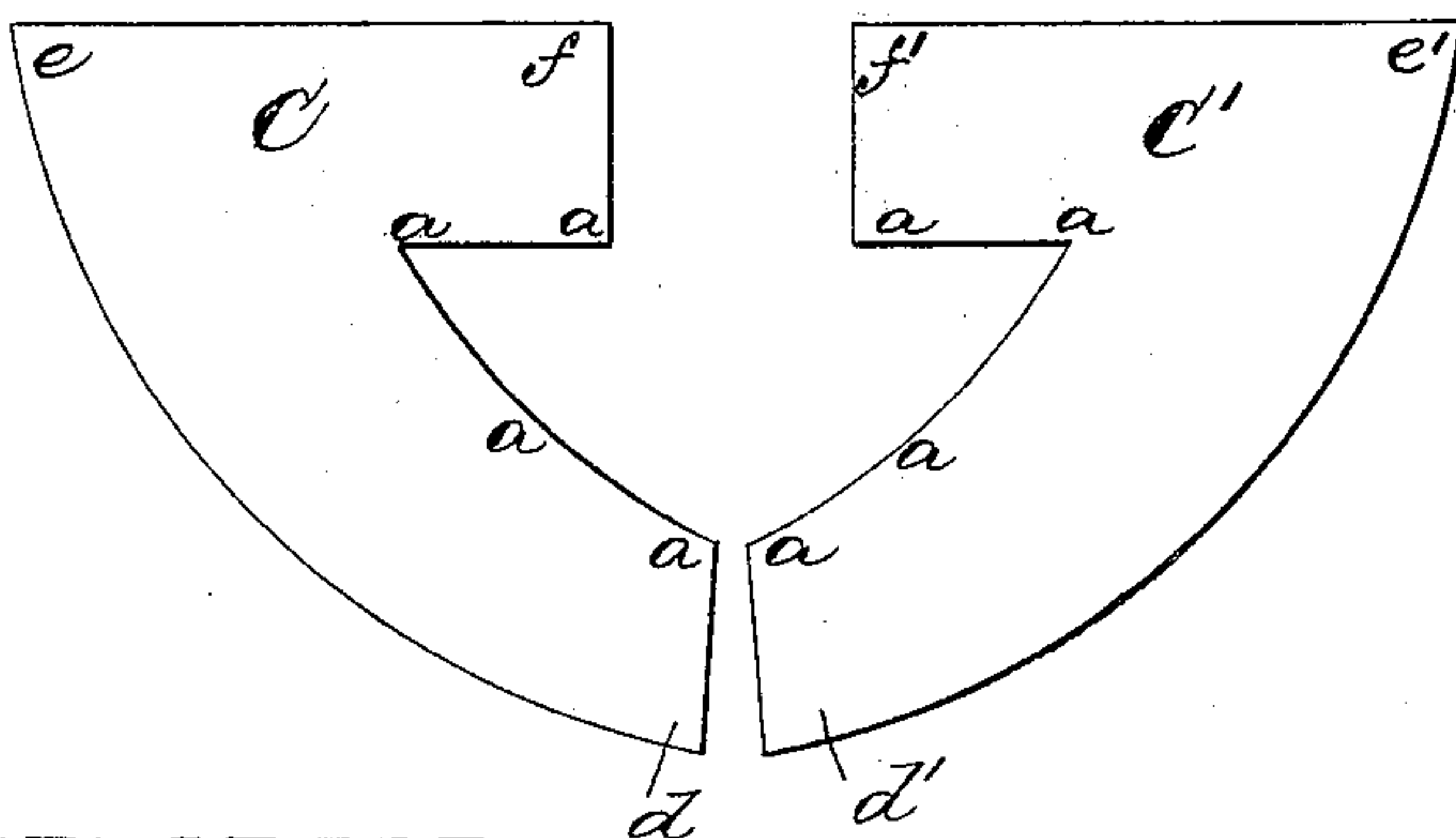
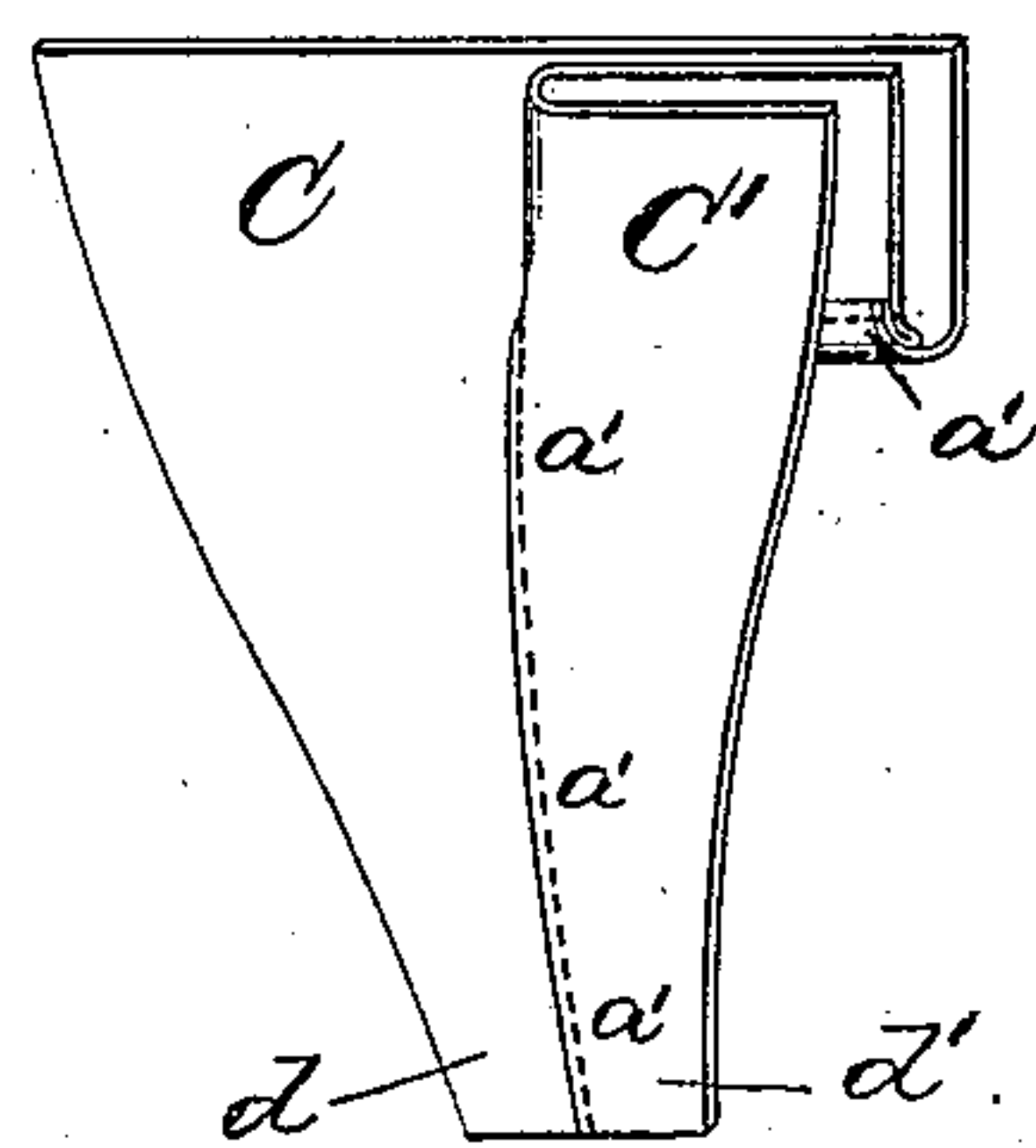


Fig. 2.



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CHARLES ADLER, OF ALAMEDA, CALIFORNIA.

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SPECIFICATION forming part of Letters Patent No. 252,985, dated January 31, 1882.

Application filed October 8, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES ADLER, of Alameda, in the county of Alameda, State of California, have invented a new and useful Improvement in Overalls, &c.; and I hereby declare that the following is a full, clear, and exact description of my invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, as a part of this specification.

It is well known that overalls are more likely to rip and tear at the crotch of the fly, at the end or point of the fly, and at the junction of the inner leg-seams with the back seam, or along the seam between these two places, than at other points, because the crotch is subjected to the greatest strain in putting on or taking off the garment, which operations are often done in great haste and with considerable violence, and also because that part of the garment, more perhaps than any other, is brought into intimate contact with and absorbs the secretions of the body of the wearer, whereby the thread used in stitching the crotch-seams becomes tender and rotten, and the easy ripping or tearing of the seams results.

My invention has for its object to strengthen the crotch-seams exposed to danger, as above stated, to relieve the strain upon them, and to hold the garment securely, even if the stitching which primarily secures together the different parts of the garment at the crotch should become weakened by pulling or other cause; and it consists essentially in overlaying the crotch-seam of the fly, the seam extending from the last-mentioned seam to the inner leg-seams, and the junction of the leg-seams with the back seam by a re-enforce piece applied in such a peculiar manner that much of the stitching whereby it is attached to the garment runs in the direction of the strain and in a direction different from that of the seams which primarily secures the portions of the garment together at these points, and the re-enforce takes the strain and substantially relieves the garment proper therefrom.

In the accompanying sheet of drawings similar letters of reference indicate like parts in the various figures.

Figure 1 shows the shape of the two parts of the re-enforce piece as they are cut from the material before stitching. Fig. 2 shows the

said two parts stitched together preliminarily to attaching them to the garment. Fig. 3 shows the junction of the inner leg-seams with the back seam, and the crotch-seam protected by the re-enforce, the fly being closed. Fig. 4 shows the crotch-seam protected by the re-enforce, the fly being open; and Fig. 5 shows the crotch protected by the re-enforce, the fly being closed.

A represents a pair of overalls, which may be made of any desired material and size and cut and made with the ordinary front or fly opening B B', to be buttoned and unbuttoned in the ordinary manner. The two parts of the re-enforce piece should be cut from the same material as the body of the garment and of the shape shown in Fig. 1, and reverse counterparts of each other, as indicated by C and C' of Fig. 1.

The two parts C and C' are laid together, the outer face of the one against the outer face of the other, and so that their edges match all round, and are then stitched together along the edges *a a a a* by the seam *a'*. To form the seam *a'* one of the pieces is turned back nearly to the line where the seam *a'* is to be sewed, and the seam *a'* is run through two thicknesses of the piece turned back and one thickness of the other piece, the method of forming this seam being clearly shown by Fig. 2. The re-enforce piece thus composed and made is then laid upon the crotch of the garment so that the lower end, *d d'*, will lie over the junction of the back seam, *b*, with the inside leg-seams, *c c*, the upper ends, *e* and *e'*, in about the positions relatively to the crotch as shown in Figs. 3, 4, and 5, the upper ends, *f* and *f'*, being upon the fly, the end *f* upon the face B of the fly, and the end *f'* upon the opposite face, B', of the fly, as shown in Fig. 4, the seam *a'* of the re-enforce piece coming about over the crotch-seam of the fly. The re-enforce piece is then stitched down upon the garment by the single or double row of stitching *g h i*, as shown in Fig. 4, and the outer edges of the re-enforce piece are turned in and also stitched down by the single or double row of stitching *k k l l m m n n*.

By this device the junction of the inner leg-seams with the back seam, also the seam running from the said point of junction to the crotch-seam of the fly, also the crotch-seam of

the fly—these being liable to the greatest strain in putting on and taking off the garments, and to deterioration by the secretions of the body of the wearer—are amply secured against ripping by an extra piece of material and lines of stitching running in the direction of the strain, as it is in all cases the re-enforce piece which takes the strain, and not the seams which primarily in these places secure the parts of the garment together, and this re-enforce is secured to the garment by stitching running in all cases in the direction of the strain. Thus the strain at the junction of the inner leg-seams and the back seam is relieved by the lines of stitching *k, k, l, l*, and *g*, and the crotch-seam of the fly is relieved by lines of stitching *m, m, n, n, a, g, h*, and *i*.

It is obvious that my invention may be applied as well to pantaloons and drawers.

Having thus fully described my invention,

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

A re-enforce for the crotch and fly of overalls and pants, consisting of the two counterpart pieces *C C'*, formed with the coincident edges *a a*, the end portions, *d d'* and *e e'*, and the horizontal projecting ends *f f'*, said counterpart pieces being united along the edges *a a* and attached to the garment with the horizontal end portions, *f f'*, lapping or extended over the opposite and adjacent inside faces, *B B'*, of the fly in the manner described, and the parts *d d'* and *e e'* respectively overlapping the junction of the back seam, *b*, and leg-seams *c* and the crotch, as herein shown.

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Witnesses:

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