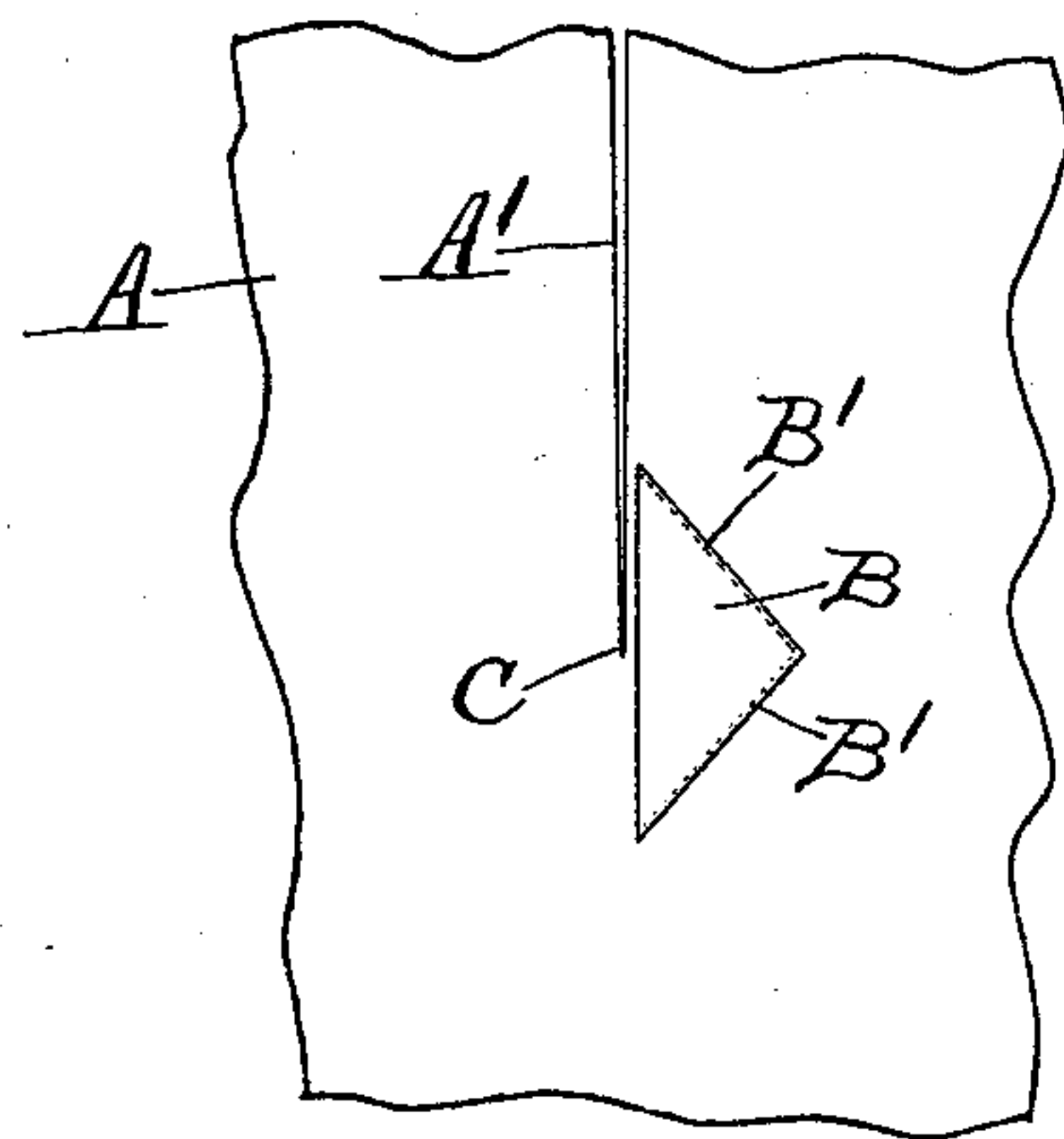
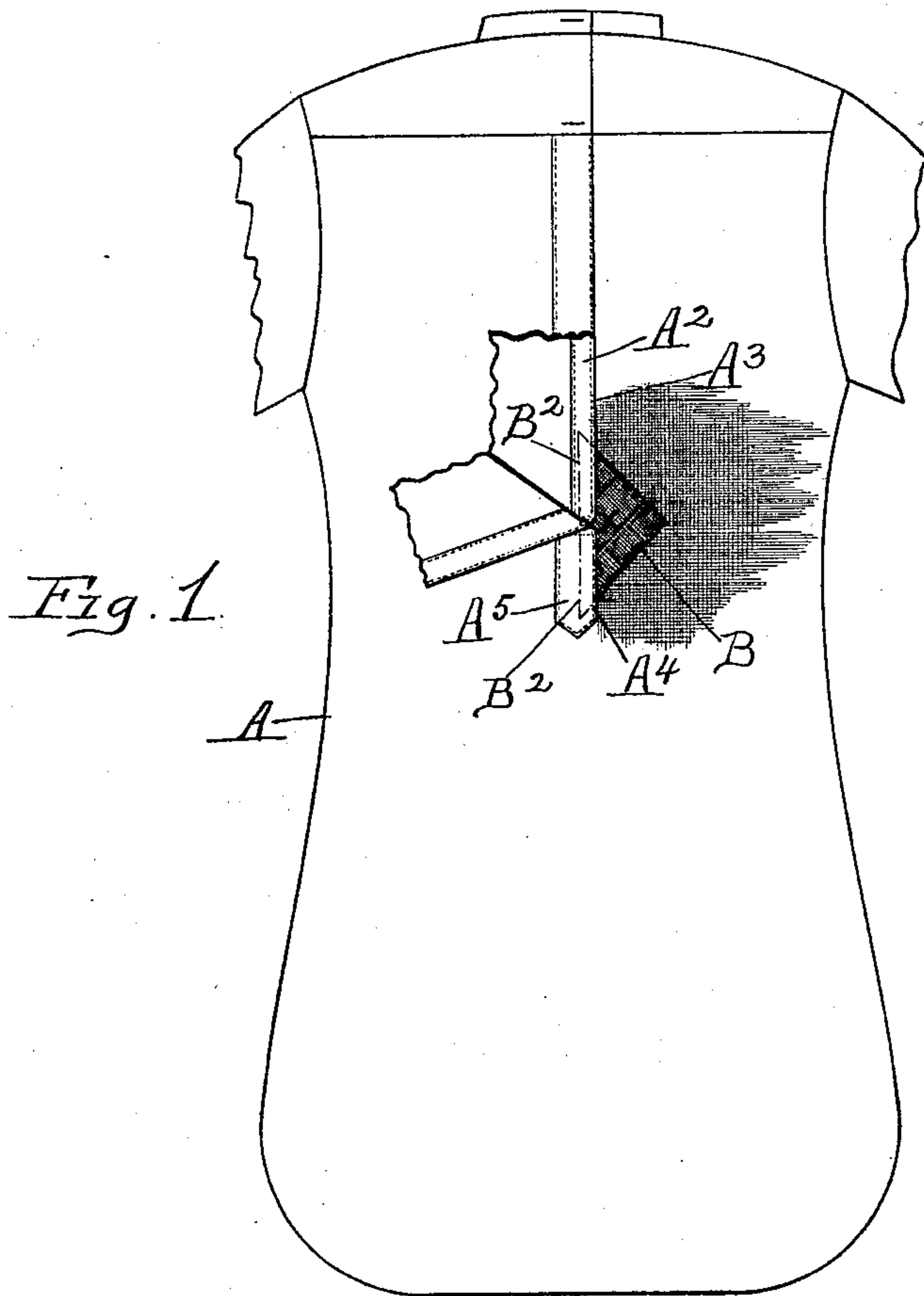


(No Model.)

C. G. CLEMINSHAW.
SHIRT.

No. 594,194.

Patented Nov. 23, 1897.



Witnesses:
G. H. Curtis
J. L. Curtis

Inventor:
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By *Mosher & Curtis*
Attys

UNITED STATES PATENT OFFICE.

CHARLES G. CLEMINSHAW, OF TROY, NEW YORK.

SHIRT.

SPECIFICATION forming part of Letters Patent No. 594,194, dated November 23, 1897.

Application filed June 14, 1897. Serial No. 640,657. (No model.)

To all whom it may concern:

Be it known that I, CHARLES G. CLEMINSHAW, a citizen of the United States, residing at Troy, county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Shirts, of which the following is a specification.

The invention relates to such improvements; and it consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings and the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in both figures of the drawings.

Figure 1 of the drawings is a view in elevation of the back of my improved shirt. Fig. 2 is a similar view of an unfinished shirt, showing one of the steps in the manufacture.

The principal object of my invention is to prevent the body part of a shirt having its back opening reinforced by a continuous facing from tearing along the facing near the crotch of the opening.

The invention consists of a shirt provided with a lateral reinforce, preferably a bias-cut triangular piece of cloth, stitched along two of its side edges to the body part of the shirt and having its remaining side edge lapped and covered by the facing-strip and secured by the same stitches which secure the lapping edge of the facing-strip.

A represents the back of a shirt, and A' the usual back opening therein, the edges of the fabric formed by the opening being faced and reinforced by the usual continuous facing-strip A².

B is my improved lateral reinforce, which is secured to the body of the shirt in the position shown in Fig. 2 by means of the stitching B', inserted before the facing-strip is applied. The facing-strip is then applied in the usual manner, one edge lapping and covering the reinforce, the lapped and covered edge of the reinforce being indicated by the broken line B² in Fig. 1.

The line of stitching A³ serves to secure the

lapped edges of the inner facing and reinforce to the body of the shirt along the upper part of the reinforce, and the line of stitching A⁴ serves to secure the lapped edges of the outer facing A⁵ and the reinforce to the body of the shirt along the lower part of the reinforce.

The reinforce-piece is first secured to the body of the shirt on one side of the crotch C, as seen in Fig. 2, and the facing-strips are then attached in precisely the same manner as heretofore practiced, so that very little labor or expense is necessitated in carrying out my invention.

Without my improved reinforce the body part of the shirt soon tears or breaks at the point marked X in Fig. 1, which point is directly opposite the crotch of the back opening and adjacent to the facing-strip. The break is due to the great strain to which the shirt is subjected in putting the same on and off, generally after one arm has been inserted in a sleeve and the head through the neck-opening. While the other arm is being inserted a diagonal strain is exerted along a straight line extending from the crotch to the shoulders.

By cutting the lapped edge of the reinforce on the bias, as indicated by the shade-lines in Fig. 1, approximately one-half the threads composing the fabric of the reinforce-piece are made to extend along the strain-lines running from the crotch to the shoulder, so that the reinforce-piece will give or stretch less in that direction than the fabric comprising the body part of the shirt, in which all the threads extend along lines diagonal to the strain-lines, whereby the reinforce almost wholly relieves the body part from excessive strains.

The small reinforce-piece can be made of stronger fabric than the body of the shirt or made of two plies.

When the reinforce is cut to correspond in direction of thread-lines with the body of the shirt, it will still be of great advantage in dividing the strain with the shirt-body and will prolong the usefulness of the shirt; but I prefer to cut the reinforce-piece on the bias, as before explained.

My invention is also applicable to any gore-shaped opening having facing-strips, such as the back, sleeve, and front openings.

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

A shirt having a gore-shaped opening reinforced by facing-strips and provided on one side of the crotch with a lateral reinforce consisting of a piece of fabric having one side
10 lapped by the facing-strips above and below the crotch, the lapped edges of the strip and

piece being secured by the same stitching to the body, and the exposed edges of the piece by separate stitching, substantially as described.

In testimony whereof I have hereunto set
my hand this 26th day of February, 1897.

C. G. CLEMINSHAW.

Witnesses:

GEO. A. MOSHER,

FRANK C. CURTIS.