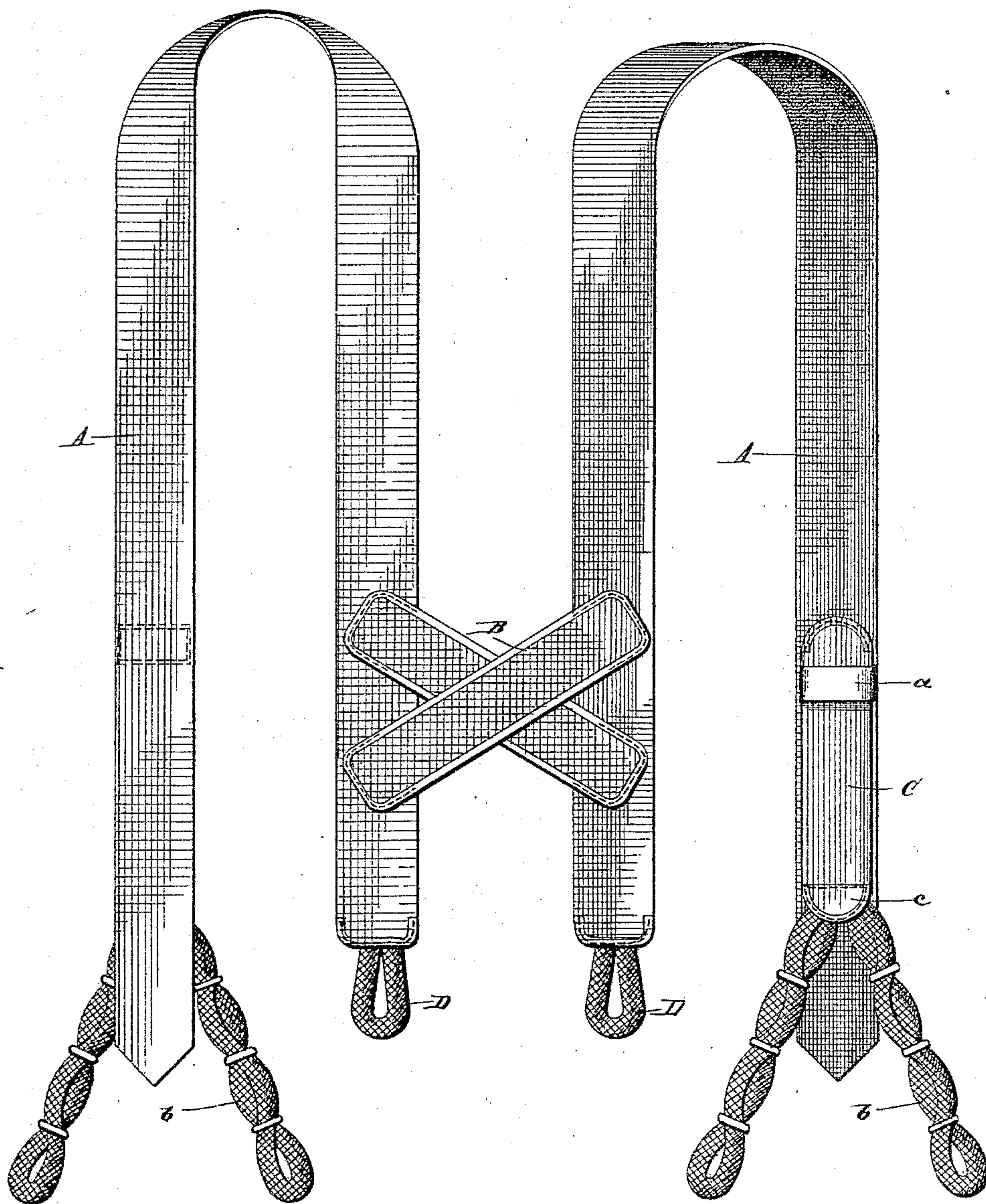


(No Model.)

J. KATZENBERG.
SUSPENDERS.

No. 412,097.

Patented Oct. 1, 1889.



WITNESSES,
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JACOB KATZENBERG, OF NEW YORK, N. Y.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 412,097, dated October 1, 1889.

Application filed July 18, 1889. Serial No. 317,854. (No model.)

To all whom it may concern:

Be it known that I, JACOB KATZENBERG, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Suspenders; and I do declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

The drawing is a perspective view of a pair of suspenders showing my improvements.

The view represents the shoulder-strap on the right-hand side turned wrong side out to illustrate one feature of my improvement more clearly.

My improvements relate to elastic crossed straps connecting the shoulder-strap in the rear and a peculiar construction of the ends in front, as will hereinafter be more fully explained.

Referring to the drawing, A A represent the shoulder-straps, which are of any suitable kind of webbing, either elastic or non-elastic.

B represents two cross-straps in the rear connecting the shoulder-straps and substantially in the form of the letter X.

I prefer to make the straps B of elastic webbing, although for some purposes non-elastic webbing will answer just as well. These straps are secured to the shoulder-straps in any suitable manner and either on the inside or outside of the shoulder-straps, although I prefer to secure them on the outside, so as not to hurt the back of the wearer.

At the lower ends of the shoulder-straps at the rear I provide the button loops or tabs D D, which I prefer to make of cord or braid secured, as indicated on the drawing, directly to the material composing the shoulder-straps.

At the front lower ends of the shoulder-straps and on the inner sides thereof I secure the buckles *a*, of any suitable character, one on each strap. It will be noticed that

these buckles are secured to the shoulder-straps in a reversed position, so that the same will be held in proper position and the smooth finished or plated side of the buckle will be next the wearer and prevent injury, and also prevent injury to the shirt by corrosion.

Adjustably secured to the buckles are the short pieces of webbing C, and to the lower ends of these short pieces C the ends *b* are secured, preferably by stitching, and covered by a leather or fabric tab, as at *c*. The ends may be secured by other means than stitching, as this feature—that is to say, the means of connecting the ends to the web C—is unimportant. The ends themselves may be of any approved kind.

The cross-straps B at the back render the suspenders very comfortable to the wearer and prevent their slipping off the shoulder and at the same time support the back.

It will be seen that there are no buckles or other metallic attachments on the outside of the suspenders, and that the inside is also practically smooth, as the finished side of the buckle is next the wearer. The usual ring, clasp, or other attachment for the cast-off is also dispensed with.

By my improvement I am enabled to construct a neat, ornamental, and comfortable suspender, and at the same time economize in the material used, as the shoulder-straps need not be as long as in ordinary suspenders, and short pieces of webbing are utilized in the manufacture of the pieces to which the front ends are secured.

Having thus fully described my improvement, what I claim as new, and desire to secure by Letters Patent, is—

1. A suspender having crossed straps B connecting the shoulder-straps in the rear, substantially as described.

2. A suspender having the buckles secured to the shoulder-straps on their inner sides and at some distance from their lower front ends and short straps or webs carrying the ends, adjustable in the buckles, substantially as described.

3. A suspender having the buckles secured

to the shoulder-straps on their inner sides at
some distance from their lower front ends
and short straps or webs carrying the ends
adjustable in the buckles, and cord or braid
5 loops at the rear ends of the shoulder-straps
and secured directly thereto, substantially as
described.

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

JACOB KATZENBERG.

Witnesses:

FERNANDO BALTES,
ELIAS R. PECK.