

S. Heller.

Pantaloons Strap.

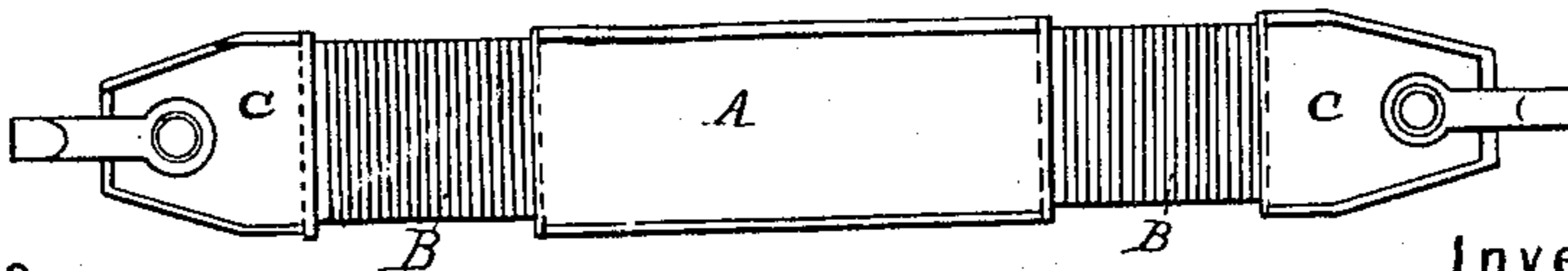
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Fig. 1.



Fig. 2.



Witnesses.

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Inventor.

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UNITED STATES PATENT OFFICE.

SAMUEL HELLER, OF NEW YORK, N. Y.

IMPROVEMENT IN PANTALOO-STRAPS.

Specification forming part of Letters Patent No. 40,931, dated December 15, 1863.

To all whom it may concern:

Be it known that I, S. HELLER, of the city, county, and State of New York, have invented a new and useful Improvement in Pantaloon-Straps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a side elevation of my invention, showing its application to a pair of pantaloons. Fig. 2 is a plan or face view of the same detached.

Similar letters of reference in both views indicate corresponding parts.

Pantaloon-straps of the ordinary construction are made of strips of leather or other flexible but non-elastic material. Such straps, being unable to expand or contract, exert a very injurious influence on the pantaloons, and cause them to tear or split open by sudden movements of the legs or body. Attempts have been made to overcome this difficulty by inserting flat spiral springs between the ends of the straps or by making the straps entirely out of shirred india rubber. The use of metallic springs is objectionable, because they are liable to corrode by the influence of the moisture to which they are exposed, and when corroded they dirty the pantaloons and the boots, and besides in this condition they lose their elasticity and break. Furthermore, even when perfectly clean, metallic springs are apt to scratch the leather or other material from which the boots are made.

In regard to straps made entirely out of india-rubber, the main objection is that the same wear out very quick, particularly on those places where they come in contact with the edges of the soles. All these difficulties are overcome by my invention, which consists in a strap with a center piece of leather, two strips of shirred india-rubber, and two end pieces of leather, so that all the advantages

of the leather are preserved and sufficient elasticity is imparted to the straps to prevent the pantaloons from being exposed to an injurious strain.

To enable those skilled in the art to make and use my invention, I will proceed to describe it.

A represents the center piece of my pantaloons-straps. This piece is made of leather or other strong flexible but non-elastic material, and of such a length that when applied to a boot or shoe it extends up on the sides beyond the edges of the sole, as clearly shown in Fig. 1 of the drawings. The center piece, A, connects by two strips of shirred or elastic india-rubber, B, with the end pieces, C. These india-rubber strips are made of the same width as the center piece of the strap, and they are secured to said center piece and to the end pieces by sewing or in any other suitable manner. The end pieces are made of leather, so that they afford a good hold to the hooks, buttons, or other devices which I use for fastening the straps to the pantaloons.

By the application of the india-rubber strips B to the straps between the center piece and end piece, the durability of the strap is not impaired. It retains its shape, it is not injurious to the boot or to the pantaloons, and still sufficient elasticity is imparted to the same to allow it to yield to some extent and to reduce the strain on the pantaloons.

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

A pantaloons-strap consisting of a center piece, A, of leather, two strips, B, of elastic india-rubber fabric, and two end pieces, C, of leather, all arranged in relation to each other as and for the purpose herein shown and described.

SAMUEL HELLER.

Witnesses:

M. M. LIVINGSTON,
J. W. COOMBS.