

No. 841,654.

PATENTED JAN. 22, 1907.

J. U. ADAMS.
SUSPENDERS.

APPLICATION FILED MAR. 17, 1906.

Fig. 1

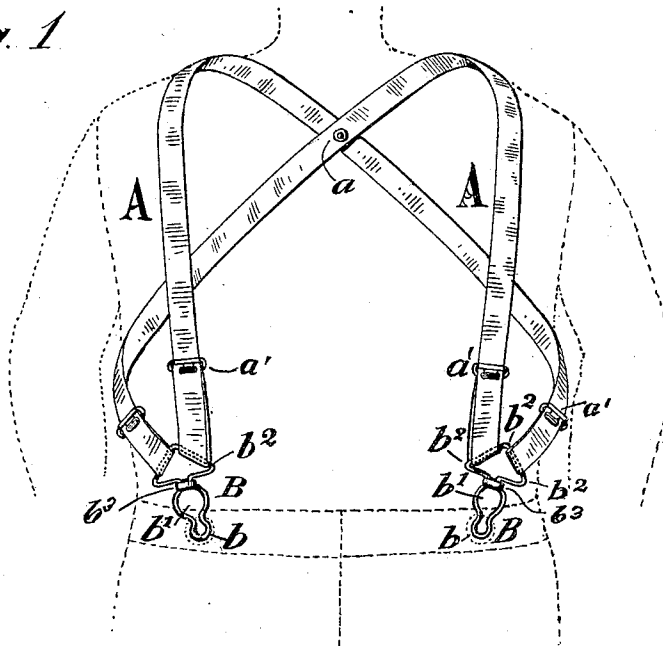


Fig. 2

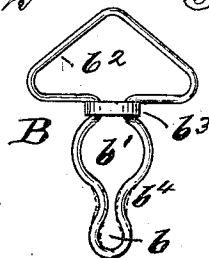
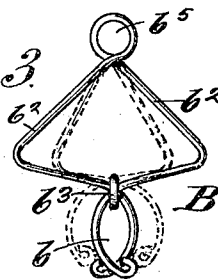


Fig. 3



Witnesses

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UNITED STATES PATENT OFFICE.

JOEL U. ADAMS, OF CINCINNATI, OHIO.

SUSPENDERS.

No. 841,654.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOEL U. ADAMS, a citizen of the United States, residing at Cincinnati, Hamilton county, State of Ohio, have invented certain new and useful Improvements in Suspenders; and I do declare the following to be a clear, full, and exact description of the invention, attention being called to the accompanying drawings, with the reference characters marked thereon, which form also a part of this specification.

This invention relates to improvements in garment-supporters, and is particularly intended for suspending trousers. It belongs to the class of suspenders where two straps are used the ends of which converge to a point of attachment on each side of the garment.

The object of having two strap ends coming together at one point of attachment is to prevent any uneven or side strains on the garment which would bind or draw the garment out of shape and render the support uncomfortable. Suspenders of this class are particularly well adapted to be worn under the shirt.

The invention consists of a particular fitting constructed in a certain way, as herein-after shown and described, and so as to permit attachment of the strap ends in the intended manner and serving at the same time for purposes of attachment to the trousers.

In the following specification, and particularly pointed out in the claims at the end thereof, will be found a full description of my invention, together with its manner of use, parts and their arrangement, which latter is also illustrated in the accompanying drawings, in which—

Figure 1 shows the suspender in a position which it assumes when it is in place to be worn. Fig. 2 is an enlarged detail view of one of its fittings detached. Fig. 3 in a similar view shows another form of fitting which may be used.

In the drawings, A A show the supporting-straps crossed at the back and permanently connected to each other at the point of crossing in a suitable manner—as, for instance, by a rivet *a*. The ends of these straps come together in the front, where on each side two of their ends are received by a fitting B, which fittings serve also for attachment to the trousers, being provided for such purpose with a button-loop *b*. These fittings are made each of a continuous piece of wire

which is shaped to form such loop and which above this latter part is extended laterally in opposite direction and then upwardly and toward the center, forming substantially a triangle, the two lateral members of which constitute two angularly-arranged bars *b*², each being of a length which at least equals the width of the straps, the ends of each of which are connected, one each to each one of these bars. This connection is adjustable, for which purpose one end of each strap is passed around its respective bar and provided each with a customary suspender-buckle *a'*, through which the main part of each strap passes and on which part these buckles have a sliding adjustment, whereby the length of each strap may be increased or lessened in the usual way common in adjustable suspenders.

The fittings in the form shown in Figs. 1 and 2 are held in shape by a band *b*³, which is passed around the contracted part of the same below the base of the triangle above mentioned and prevents spreading of the wire. To facilitate insertion of the button, the wire is shaped to form an enlarged part *b'* below this band and above the button-loop *b*. The inserted button is prevented from slipping out of part *b* and back into this part *b'* by the contracted part *b*⁴ between them, where the clearance is somewhat less than the diameter of the button-shank, so that this latter when being passed from the enlarged part *b'* down into button-loop *b* has to be forced through. The wire being elastic yields sufficiently for such purpose.

Detachment of the suspenders otherwise possible is thus prevented. (Observe dotted lines in Fig. 2.) Another form of fitting (shown in Fig. 3) may be used and in which part *b'* is omitted and the button-loop *b* is opened, as shown in dotted lines, to permit insertion of the button, this opening being obtained by a lateral compression of the fitting, the wire ends which come together in the lower part of the button-loop *b*, where they also overlap, being left disconnected for such purpose. The parts readily return to their normal position by reason of the spring action of the wire. A ring or band *b*³ holds the branches of this fitting to each other the same as in the other form, but permits them to move freely through it back and forth during manipulation for opening the button-loop. The spring action in this form is increased by the formation of a curl *b*⁵ at the

apex of the triangle, which constitutes the upper part of the fitting, the wire being crossed to form the triangle after this curl is formed. The wire branches are crossed
5 again where they pass through ring b^3 , after which they are bent to form the button-loop b , the wire ends crossing each other in the lower part of this loop to close the same.

Having described my invention, I claim as
10 new—

1. A suspender-fitting made of a continuous piece of wire which is shaped so as to form midway between its ends a spring-curl which constitutes the upper part of the fitting; the two branches of wire diverging out-
15 wardly then inwardly again, forming substantially a triangle, the lateral members of which are adapted to receive each a suspender-strap end; the wire branches crossing each other in the base-line of the triangle,
20 after which they are bent downwardly to form a button-loop below the triangle; the

wire terminating in the lower part of the loop and the ends crossing each other to close the same, and a ring through which the
25 wire branches pass.

2. In a suspender-fitting, the combination of a single piece of wire shaped at its lower end to form a button-loop and at its upper part to form strap-attaching bars; the wire
30 above the button-loop bent outwardly in opposite directions and then upwardly and inwardly forming a triangular-shaped strap-attaching piece, a band passing around the
35 wires at the juncture of the button-loop and the base of the triangular-shaped piece substantially as shown and described.

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

JOEL U. ADAMS.

Witnesses

C. SPENGLER,
T. LE BEAU.