

No. 635,959.

Patented Oct. 31, 1899.

W. FREEMAN.  
SUSPENDERS.

(Application filed Aug. 24, 1899.)

(No Model.)

Fig. 1.

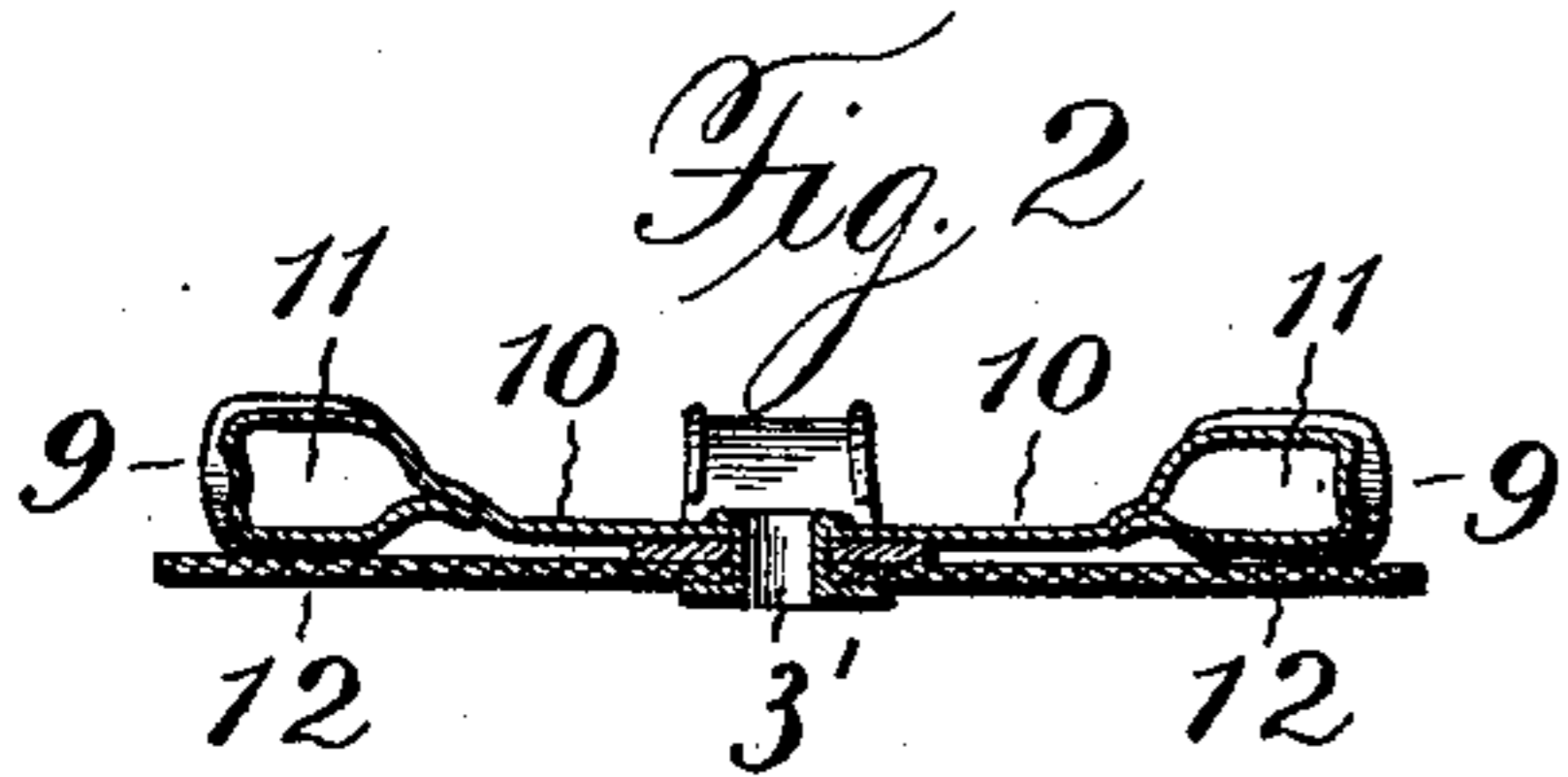
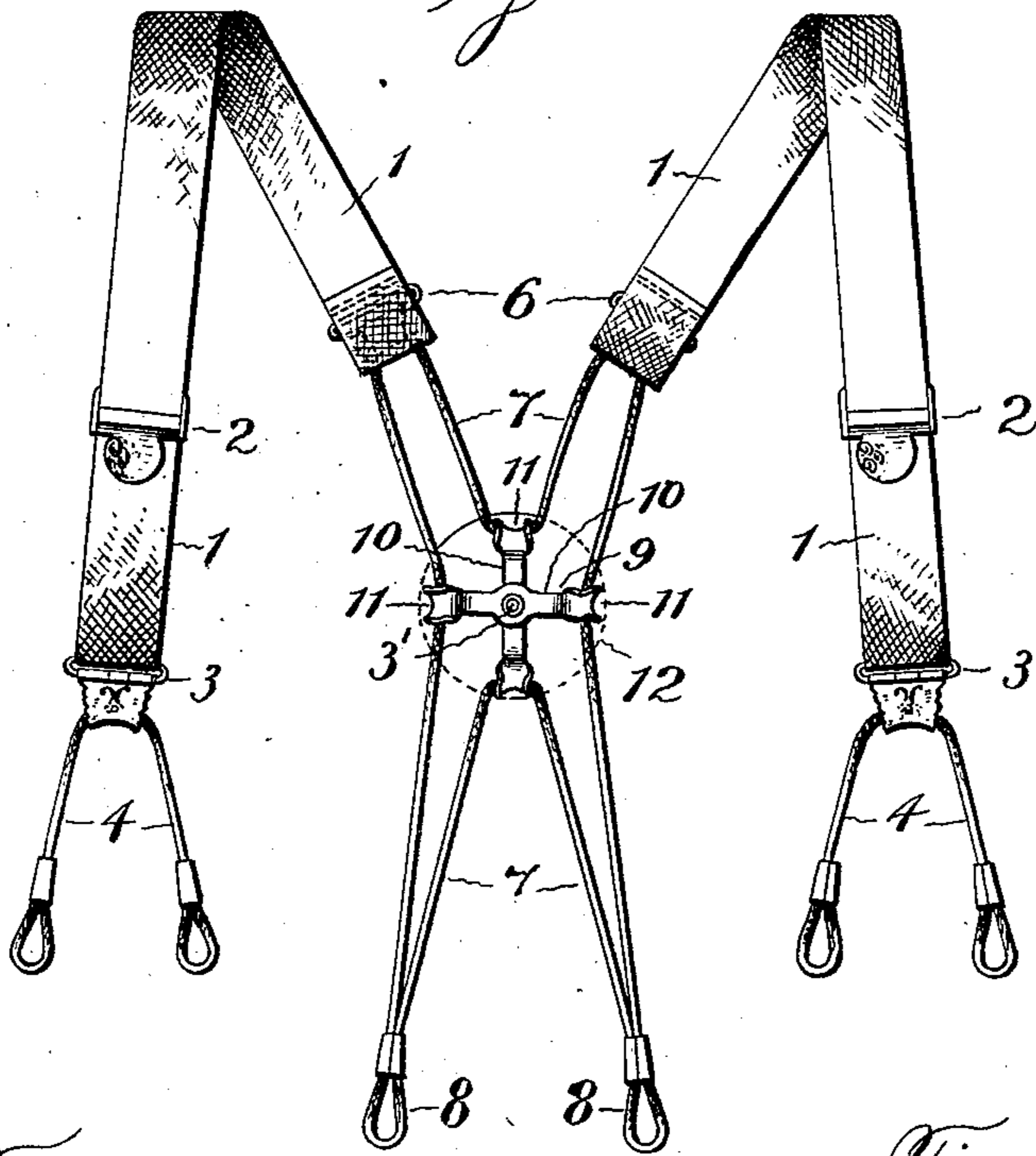


Fig. 3.

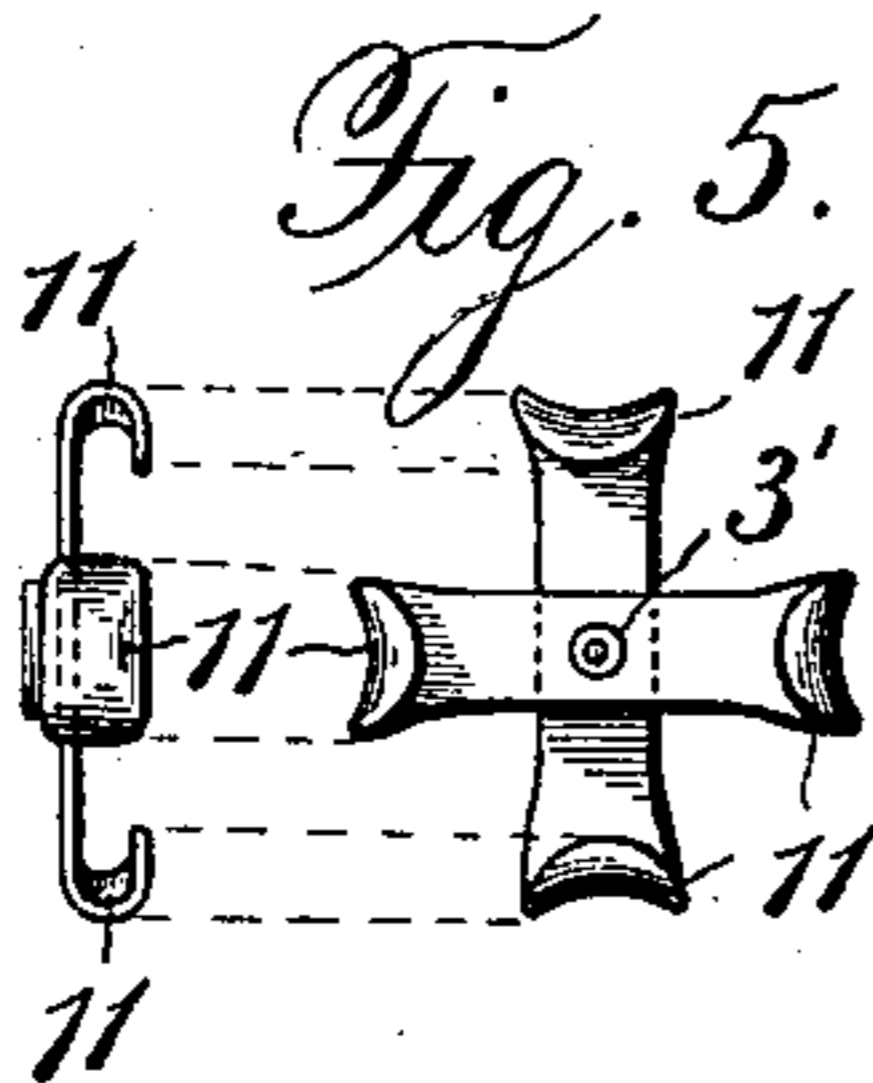
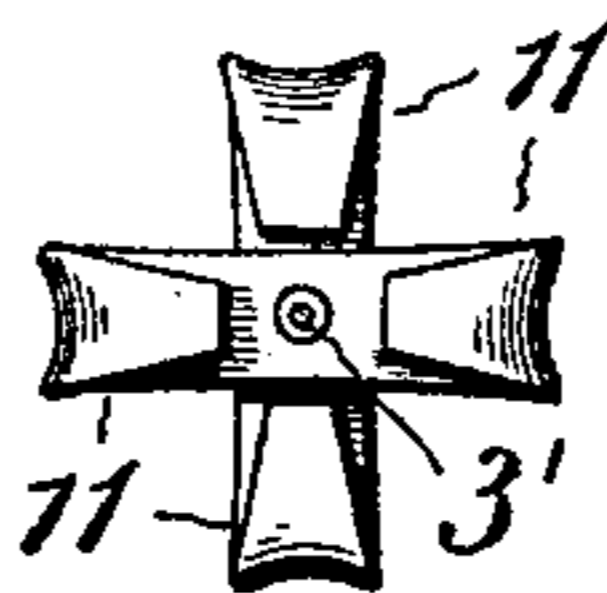
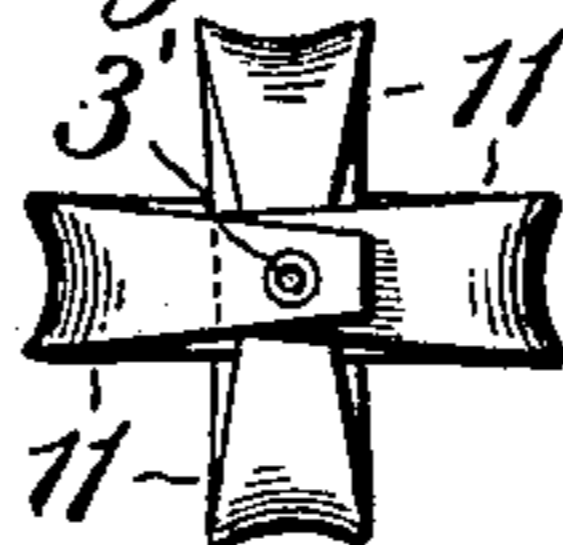


Fig. 4.



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM FREEMAN, OF NEW YORK, N. Y., ASSIGNOR TO THE HARRIS  
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## SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 635,959, dated October 31, 1899.

Application filed August 24, 1899. Serial No. 728,332. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM FREEMAN, of New York city, in the county of New York and State of New York, have invented certain  
5 new and useful Improvements in Suspenders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use  
10 the same.

My invention relates to an improvement in suspenders; and it consists in certain details in the construction of the back thereof, as will be more fully described, and pointed out  
15 in the claims.

In the accompanying drawings, Figure 1 is a view of a pair of suspenders embodying my improvement. Fig. 2 is a sectional view through the cord-guide. Fig. 3 is a detached  
20 view of the cord-guides, and Figs. 3, 4, and 5 are views of modified constructions.

1 represents the ordinary shoulder-straps, each of which is provided at its front end with a buckle 2, by which they may be adjusted,  
25 and each shoulder-strap carries at its looped front end, formed by turning the shoulder-straps onto themselves, a metal loop 3, carrying the buttonhole-cords 4. Each shoulder-strap is provided near its rear end with a loop  
30 carrying the eyelet 6, the extreme end of the shoulder-strap projecting beyond the eyelet, forming a cushion for the latter, and thus preventing the latter from coming in contact with the shirt of the wearer. A cord 7 passes  
35 through the eyelets on the rear ends of the shoulder-straps and is provided with looped ends 8 for the attachment to the rear buttons of the trousers. The top, sides, and bottom  
40 sections of this cord 7 are connected by the guiding-frame 9. This frame 9 is composed of two short metallic strips 10, each having an enlarged center, the two strips being pivotally secured together by riveting, as shown in section at 3' in Fig. 2 of the drawings.  
45 Each strip is also provided at its opposite ends with the rigid eyes or loops 11, adapted to receive the several sections of the cord 7, as shown.

The cord-guide formed by the two pivoted  
50 strips is preferably secured to or carries the disk 12, made of leather, fabric, rubber, cel-

luloid, or any other material of sufficient stiffness to retain its shape and at the same time form a pad or cushion against which the guides rest and which prevents contact of  
55 the latter with the clothing of the wearer. This cushion is preferably secured to the guide by the pivot which secures the strips 10 together, and when the cushion is made of flexible material the outer edges thereof may be  
60 secured to the strips at or near the outer ends of the latter.

While I have only shown the pad in connection with the construction shown in Figs. 1, 2, and 3, it should be understood that it  
65 may be applied to the modification hereinafter referred to.

In the use of the device one strip engages the top and bottom sections of the cord 7, while the other strip engages the two side  
70 sections of said cord, and as the two strips are pivoted together it will be seen that they are free to move to accommodate themselves to the movements of the body of the wearer. The eyes on the ends of these strips are, as  
75 before stated, rigid with the strips, and hence cannot be turned inwardly against the body.

This construction of cord-guide, while it permits of the free and unrestricted movements of the cord and permits the latter to  
80 follow up the movements of the shoulder-straps, holds the several sections of the back cord well together, and thus prevents the tendency of the shoulder-straps to creep over the shoulders, as they would if the several  
85 sections of the back cord were not confined. In use the vertical strip of the guide, owing to the pull thereon by the upper and lower sections of the back cord, remains vertical, while the transverse strip, which is pivoted  
90 to the vertical strip, is free to vibrate and follow the movements of the side sections of the back cord as they follow the movements of the shoulder-straps.

In the construction shown in Fig. 3 the cord,  
95 loops, or eyelets are elongated, and instead of employing closed eyelets, as shown in Fig. 1, they are open. This construction permits the cord-guide to be removed at any time.

The construction shown in Fig. 4 discloses  
100 a guide in which the ends of the loops or eyes are closed by the pivot-pin or rivet.

In the construction shown in Fig. 5 the cord eyes or loops are in the form of hooks.

It is evident that numerous changes in the form and construction of the guide may be  
5 resorted to without departing from the spirit and scope of my invention. Hence I would have it understood that I do not confine myself to the details shown and described, but  
10 consider myself at liberty to make such changes as fairly fall within the spirit and scope of my invention.

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

15 1. A pair of suspenders comprising shoulder-straps, a cord for connecting the rear ends of the straps to the trousers and a cord-guiding frame engaging the four sections of the cord and comprising two connected metal  
20 strips, each having an eye or loop integral with each end.

2. A pair of suspenders comprising shoulder-straps, a cord attached to the rear ends of the straps for connecting same to the trousers and the guiding-frame consisting of two  
25 metal strips centrally pivoted together, each strip having an eye or loop at each end, substantially as set forth.

3. A pair of suspenders comprising shoulder-straps, a cord attached to the rear ends  
30 of the straps for connecting same to the trousers and the cord-guiding frame consisting of two connected metal strips each having an eye or loop integral with each end, and a cushion or pad secured to said frame.  
35

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM FREEMAN.

Witnesses:

WILLIAM S. FOULK,  
CHARLES VON EIFF.