

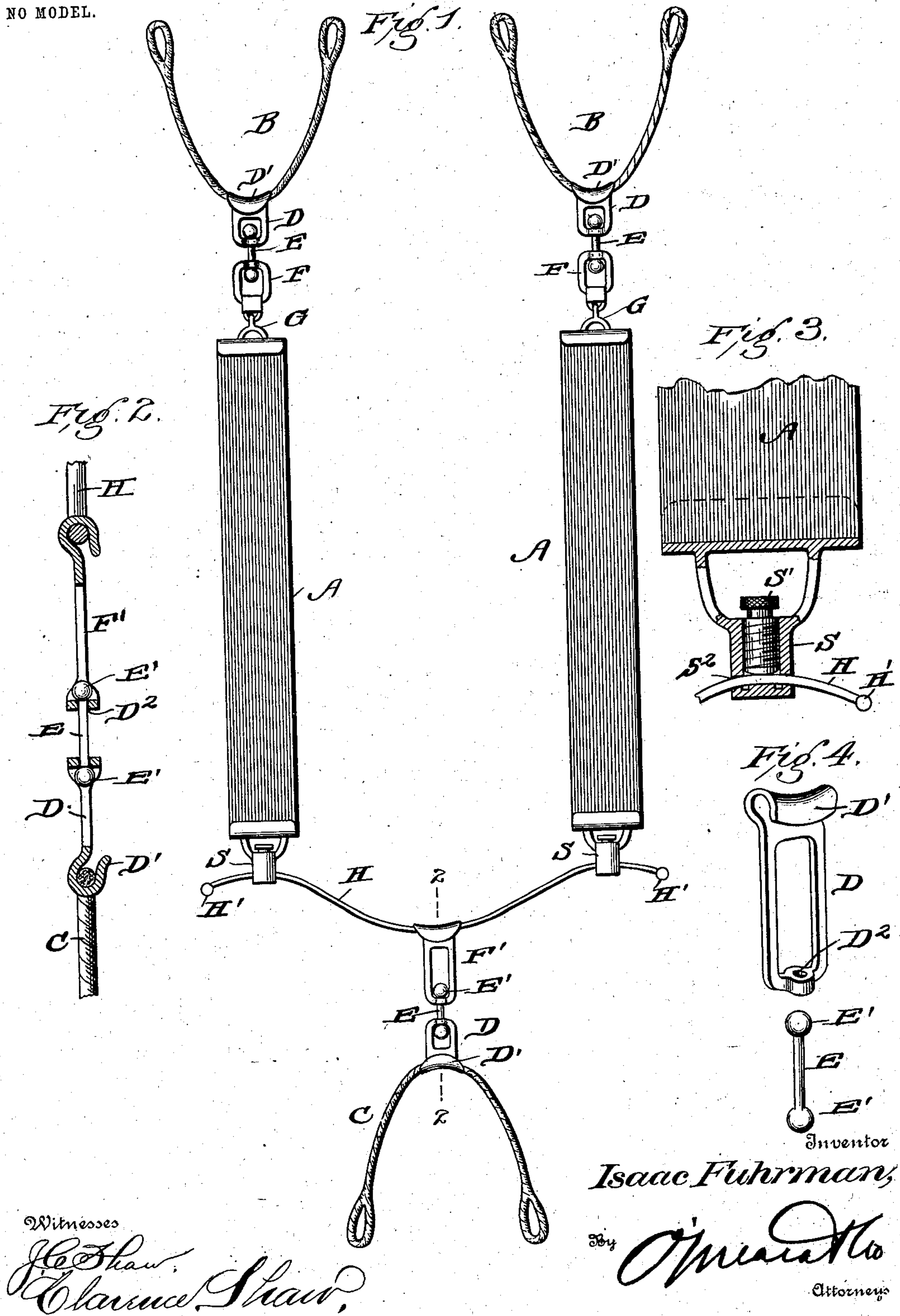
No. 730,249.

PATENTED JUNE 9, 1903.

I. FUHRMAN.  
SUSPENDERS.

APPLICATION FILED APR. 20, 1901.

NO MODEL.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 730,249, dated June 9, 1903.

Application filed April 20, 1901. Serial No. 56,717. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC FUHRMAN, a citizen of the United States, residing at Elroy, in the county of Juneau and State of Wisconsin, have invented new and useful Suspenders, of which the following is a specification.

This invention relates generally to suspenders, the object of the invention being to so construct the various parts that the suspenders can be adjusted to suit any-size person, and another object is to so connect the various parts that it will be impossible for the straps and other parts to become twisted.

With these objects in view the invention consists in the peculiar construction of the various parts and in their novel combination and arrangement, all of which will be more fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a view showing a pair of suspenders constructed in accordance with my invention. Fig. 2 is a detail sectional view on the line 2 2 of Fig. 1. Fig. 3 is a detail sectional view showing the manner of adjusting the rear extension rod or strap. Fig. 4 is a detail view of one of the swivel-frames and connecting-links.

Referring to the drawings, A indicates the shoulder - straps, B the front buttonhole straps or cords, and C the rear buttonhole straps or cords, said parts being substantially the same in all constructions. The buttonhole straps or cords are fastened to metallic swivel-frames D, which are preferably constructed of steel wire, but may be made of any other suitable material, one end D' being turned over to embrace the cord or strap, while the other end is perforated, as shown at D<sup>2</sup>, to receive the connecting-link E, having the heads E' at each end, said links connecting the frames D to similar swivel-frames F, said frames F being connected to the forward ends of the shoulder-straps by a pivotal connection G, while at the rear the frame F' is fastened to a rear flexible extension rod or strap H, which is adjustably connected to the rear

ends of the shoulder-straps A, as hereinafter explained.

In Figs. 1 and 3, I have illustrated the preferred means for connecting the extension rod or strap to the shoulder-straps and by means of which the suspenders can be adjusted to accommodate different figures. By referring to Figs. 1 and 3 it will be noted that I suspend a threaded sleeve S from the end of each shoulder-strap, said sleeve being closed at the bottom and having a screw-plug S' screwed into the upper end thereof, said plug being adapted to screw down upon and secure the strap or cross-piece H, which passes horizontally through the lateral perforations S<sup>2</sup>, produced in the sides of the sleeves S, thereby securely connecting the extension-strap to the shoulder-straps, and it will be understood that by loosening the screw the flexible rod or strap can be adjusted as desired. By drawing the strap through the plugs and by regulating the length of strap H between the shoulder-straps A the buttonhole cords C will be drawn up or let down, and by tensioning the strap H the shoulder-straps will be drawn nearer together. The strap H terminates at each end in a head H', which prevents the straps from coming loose when the screws are loosened. It will therefore be seen that the suspenders can be adjusted without injury to the fabric of the shoulder-straps.

It will thus be seen that I provide a pair of suspenders capable of adjustment and in which all of the parts are so connected as to give the wearer a complete fit at all times.

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

1. In a suspender, the combination with the shoulder-straps, of a rear buttonhole-strap, a flexible extension-rod swivelly connected to the buttonhole-strap, and means carried by the shoulder-straps for adjustably connecting the extension-rod and the shoulder-straps.

2. In a suspender, the combination with the shoulder-straps, of the threaded sleeves sus-

pendent from said straps, screw-plugs adapted to work in said sleeves, a flexible rod passing transversely through said sleeves and adapted to be secured against lateral movement by  
5 the screw-plugs.

3. In a suspender, the combination with the shoulder-straps, threaded sleeves dependent from said straps, said sleeves being laterally perforated adjacent their lower ends, screw-

plugs working in said sleeves, a flexible cross- 10 piece extending through said sleeves and adapted to be held in position by the plugs, and a rear buttonhole-strap connected to the cross-piece intermediate the said sleeves.

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