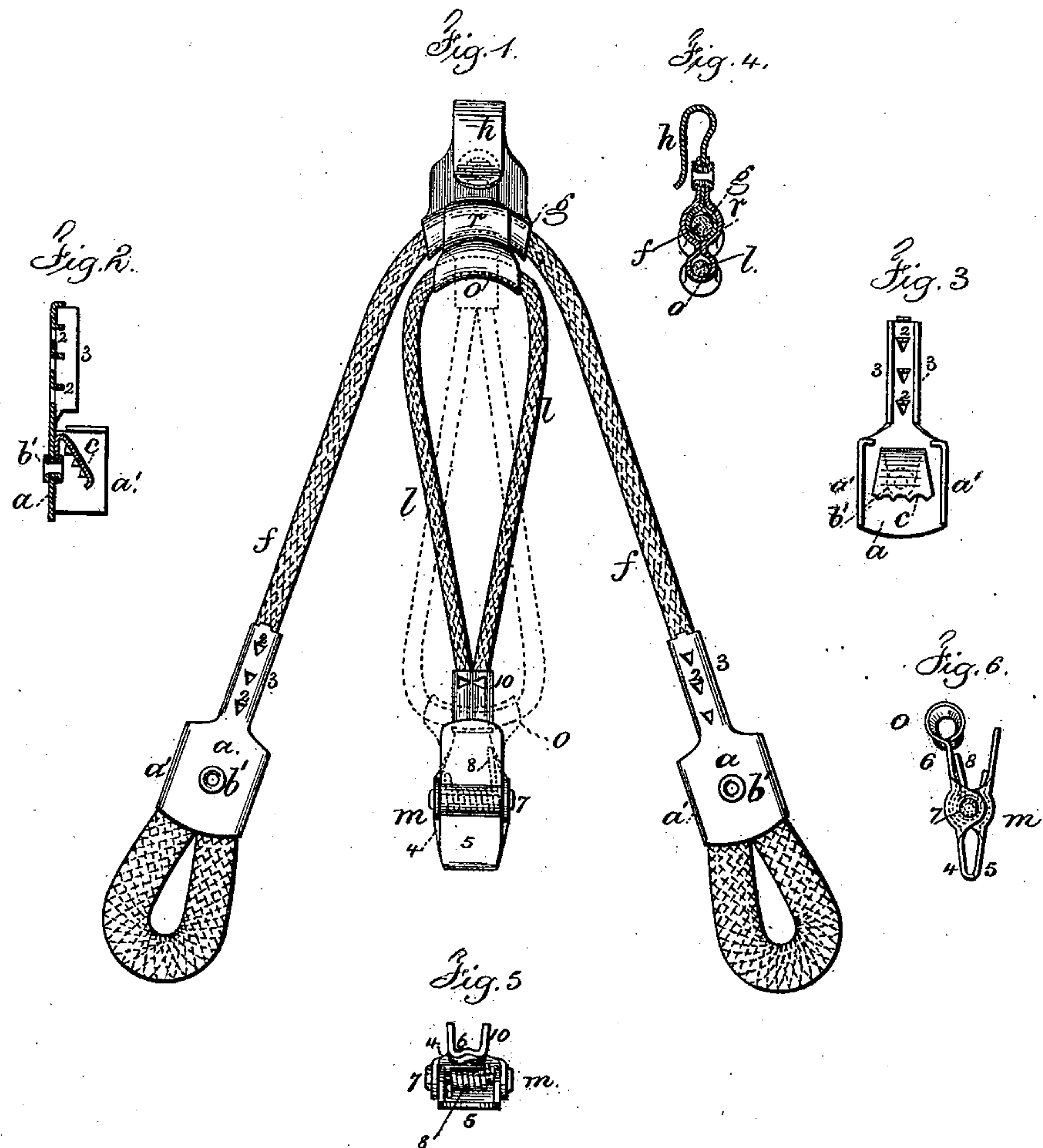


A. SHENFIELD.  
Suspender-Ends.

No. 227,183.

Patented May 4, 1880.



Witnesses

Chas. H. Smith  
Geo. T. Pinckney

Inventor

Abraham Shenfield.

per Lemuel W. Serrell  
att'y

# UNITED STATES PATENT OFFICE.

ABRAHAM SHENFIELD, OF NEW YORK, N. Y.

## SUSPENDER-END.

SPECIFICATION forming part of Letters Patent No. 227,183, dated May 4, 1880.

Application filed January 23, 1880.

*To all whom it may concern:*

Be it known that I, ABRAHAM SHENFIELD, of the city and State of New York, have invented an Improvement in Suspender-Ends, of which the following is a specification.

In Letters Patent No. 221,474, granted to me, there is a suspender-end secured by a clamp, within which is a triangular jaw-plate with teeth, and the end of the jaw-plate is secured by an eyelet, through which the suspending-chain passes.

My present invention relates to a modification of the said clamp that is made for adapting it to connect the suspender-end to a cord. I also provide a loop and clasp that is connected with the suspender-end, by means of which the drawers can be supported, and the clasp is made so as to be connected to the loop and to the suspender-buckle, so that the drawers may derive their support directly from the buckle of the suspender instead of being connected to the pantaloons or to the suspender-ends.

In the drawings, Figure 1 is an elevation of the suspender-end and drawers-supporting loop. Fig. 2 is a section, and Fig. 3 a rear view, of the clamp for receiving the button-hole loop and the cord. Fig. 4 is a section of the buckle-hook. Fig. 5 is a plan view of the clasp; and Fig. 6 is a side view of the clasp as modified to correspond with the dotted lines in Fig. 1.

The plate *a*, with wings *a'*, and the triangular jaw-plate *c* are similar to those shown in my aforesaid Letters Patent, except that the plate *a* is prolonged upwardly and provided with the teeth 2 and clamping-wings 3, that are closed over and firmly hold the end of the cord *f*; and to prevent the plate *a* being weakened by the insertion of the eyelet in the position shown in said patent I fold the end of the jaw-plate *c* backwardly and downwardly, so as to bring the eyelet *b'* near the middle of the plate *a*. This allows for the button-hole end being attached firmly, and maintains the required strength in the plate *a* at its junction with the cord-clamp.

The cord *f* passes through a curved barrel, *g*, which barrel is similar to that shown in my said patent.

I have herein shown the hook *h* as adapted to connect with the buckle of the suspender.

In some instances there has been a clamp sewed upon the pantaloons, or upon the suspender or suspender-end, for holding up the drawers. In this case it is difficult to insert the band of the drawers in the clasp, and the clasp often presses against the person in an uncomfortable manner.

I make use of a clasp for the drawers suspended from the buckle by a loop and hanging between the button-hole loops of the suspender-end.

The clasp *m* is at the lower end of the loop, and said clasp is to be of any suitable character. I have shown the jaws 4 and 5, lever 6, pivot 7, and spring 8.

If the ends of the loop *l* are brought to the clasp *m*, they will be received into the box-shaped clamp 10, and secured by the penetrating-teeth and by closing the edges of the metal firmly around the cord, as shown by the full lines in Fig. 1. The other part of the loop *l* passes through the curved barrel *o*, in which the cord is free to move endwise. Said barrel *o* is represented in Figs. 1 and 4 as formed with straps *r* passing outside of the barrel *g*, and secured at their ends to the metal of the buckle by an eyelet that passes through the three thicknesses of metal. If the ends of the loop are turned upward and adjacent to the buckle, then the barrel *o* will be upon the top part of the clasp *m*, as seen in Fig. 6 and by dotted lines in Fig. 1.

I have shown and prefer to use the two curved barrels for the cords *f* and *l*; but any suitable means, such as grooved rollers, may be used for connecting the cords to the buckle; and the suspender-end that is combined with the loop and clasp for the drawers may be of any desired character.

I am aware that spring-clasps have been employed in a variety of ways for the support of clothing; also, that suspender-ends have been made with three parts, two of which connect with buttons upon the pantaloons and the third is buttoned to the drawers or otherwise connected thereto.

By my improvement the cord-loop, curved barrel, and clasp are adapted to use without



buttons, and are self-adjusting upon the person.

I do not claim a curved cord-barrel in itself, as this has been used on suspenders.

5 I claim as my invention—

1. The combination, with the suspender-ends and their attaching devices, of an additional cord-barrel, a suspending loop of cord, and a spring-attaching clamp for the drawers, arranged and operating substantially as set forth.

15 2. The combination, with the suspender-end and curved barrel for the cord thereof, of a second curved barrel connected with the first, a suspender cord and a clamp, as and for the purposes specified.

3. The combination, with the suspender-cord and button-hole end, of a metallic connection having a cylindrical portion and teeth to grasp and hold the cord, wings at the sides of the plate, and a jaw-plate having teeth on its edges, and attached to the metallic connection and holding the button-hole end, substantially as set forth.

Signed by me this 20th day of January, A. D. 1880.

ABRAHAM SHENFIELD.

Witnesses:

GEO. T. PINCKNEY,  
HAROLD SERRELL.