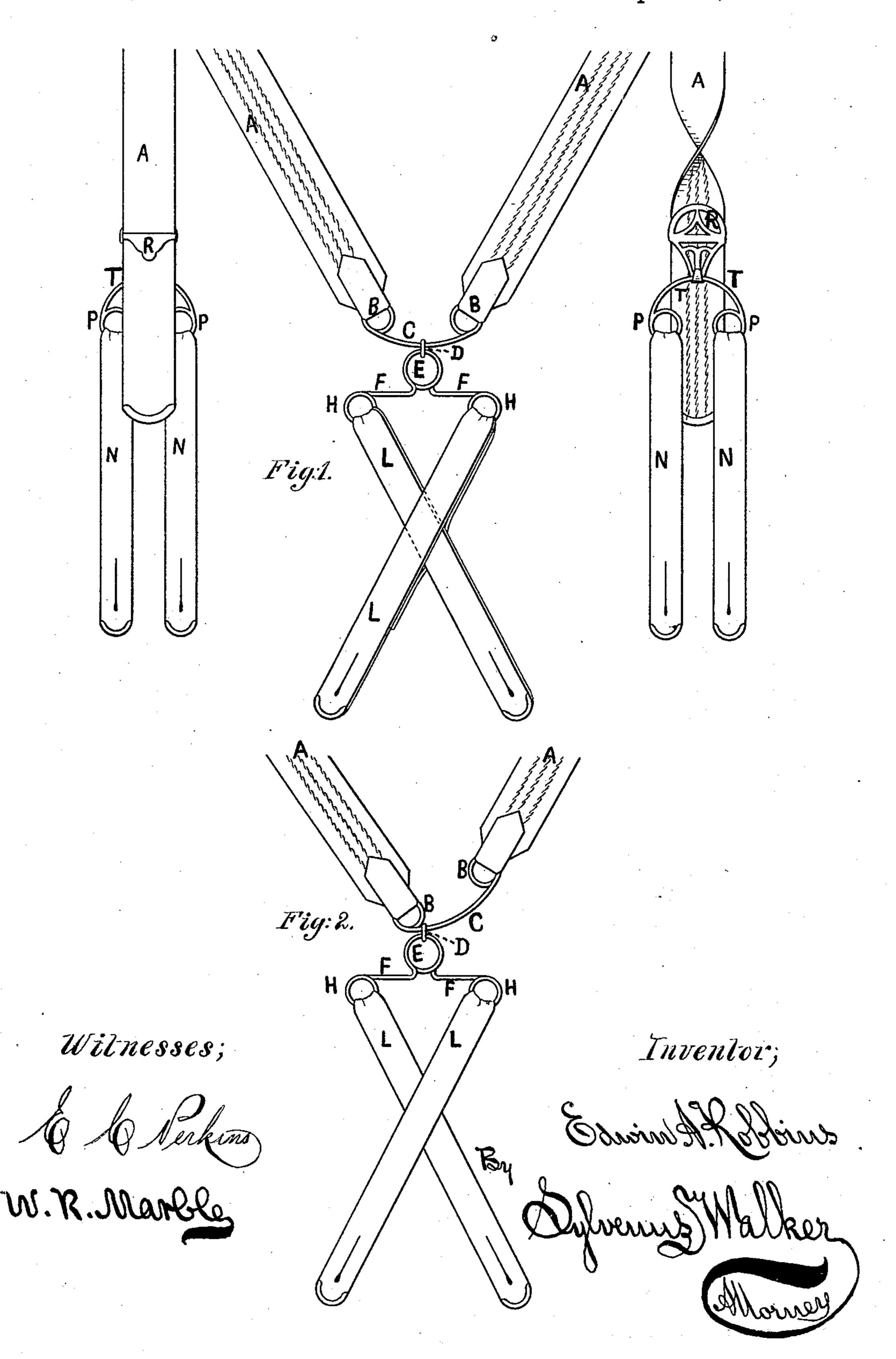
## E. A. ROBBINS. SUSPENDERS.

No. 247,112.

Patented Sept. 13, 1881.



## United States Patent Office.

EDWIN A. ROBBINS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO WILLIAM D. ROBERTSON, OF SAME PLACE.

## SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 247,112, dated September 13, 1881.

Application filed February 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, EDWIN A. ROBBINS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and 5 useful Improvements in Suspenders, of which

the following is a specification.

The object of my invention is to provide a cheap, simple, durable, and convenient selfadjusting suspender, which shall more readily 10 yield and adapt itself to the many changes of position of the body of the wearer without causing undue strain upon any portion thereof; and it consists in the construction, combination, and arrangement of the back at-15 taching cross-straps, connected at their upper ends to arms extending in opposite directions from a central coiled spring, to which is connected a ring or eye, through which an evener or bar is adapted to slide longitudinally, said 20 evener or bar being connected at each end with each rear end of the shoulder-straps, as hereinafter more fully described and set forth.

Figure 1 represents a view of a pair of suspenders constructed according to my inven-25 tion. Fig. 2 represents a view of the back portion of the same, illustrating the position of the evener when in use, one shoulder being elevated, or the shoulders being in an angular

position.

A represents the webbing forming the suspender shoulder-straps, being non-elastic, and having connected to their rear ends narrower strips of any suitable material, which strips are passed through the rings, eyes, or loops B, 35 formed upon each end of the metallic curved bar or evener C, which is free to slide or move longitudinally through the ring, loop, or eye D, which is supported upon the spiral or coiled wire spring E, the ends of which extend in op-40 posite directions and form lever-arms F, the outer or extreme ends of which are bent, formed, or provided with rings, eyes, or loops H, adapted to receive the ends of the narrow straps L, which cross each other at about their mid-45 length, or one may be passed through a loop formed in the other, as shown in Fig. 1, or in such manner as may be desired, the lower ends being provided with button-holes, so as to permit of their connection with the waistband of

50 the garment, as heretofore, the said straps L

being likewise non-elastic. The elasticity or

elongation required by the stooping position of |

the wearer is provided for in the coiled springring E, acted upon through the medium of the connecting lever-arms F, which support the 55 rear suspender-straps, L, as shown, and permit their upper ends to move or be drawn inwardly.

Now, in order to provide for any unequal movement of the waistbands of the pantaloons 60 in front or at the pockets therein when the front attaching-straps, N, are secured to the buttons, as heretofore, or in general use, I fasten the upper ends of the said button-straps to eyes, rings, or loops P, formed at each end of 65 the curved evener T, which may be connected with or detached from the catch or buckle hook R, secured and made adjustable upon the front ends of the shoulder-straps as now in use, this evener T operating similar to the one in 70 the rear or at the back portion of the suspenders, but with less movement, the straps N not being crossed, but simply extended on an angle to the buttons, as before, and made of nonelastic material, whereby the suspenders are 75 rendered more durable and agreeable in their operation to the body of the wearer.

I am well aware that suspenders have been heretofore provided with spiral springs attached in a variety of ways to non-elastic web- 80 bing or shoulder-straps. Therefore I disclaim such.

I am aware that heretofore the front ends of suspenders have been provided with various devices adapted to slide through the buckle- 85 hook similar in construction to the device herein shown and described. Therefore I do not claim such as being my invention.

Having thus described my invention, what I claim is—

The combination, in a pair of suspenders provided with back attaching cross-straps, L, and coiled spring E, having arms F, to which the said cross-straps are attached, of the evener or bar B, having each end connected separately 95 with each shoulder-strap, whereby said evener B is adapted to slide longitudinally, substan. tially as described, as and for the purposes set forth.

EDWIN A. ROBBINS.

Witnesses: SYLVENUS WALKER, JOHN GOODALE.