

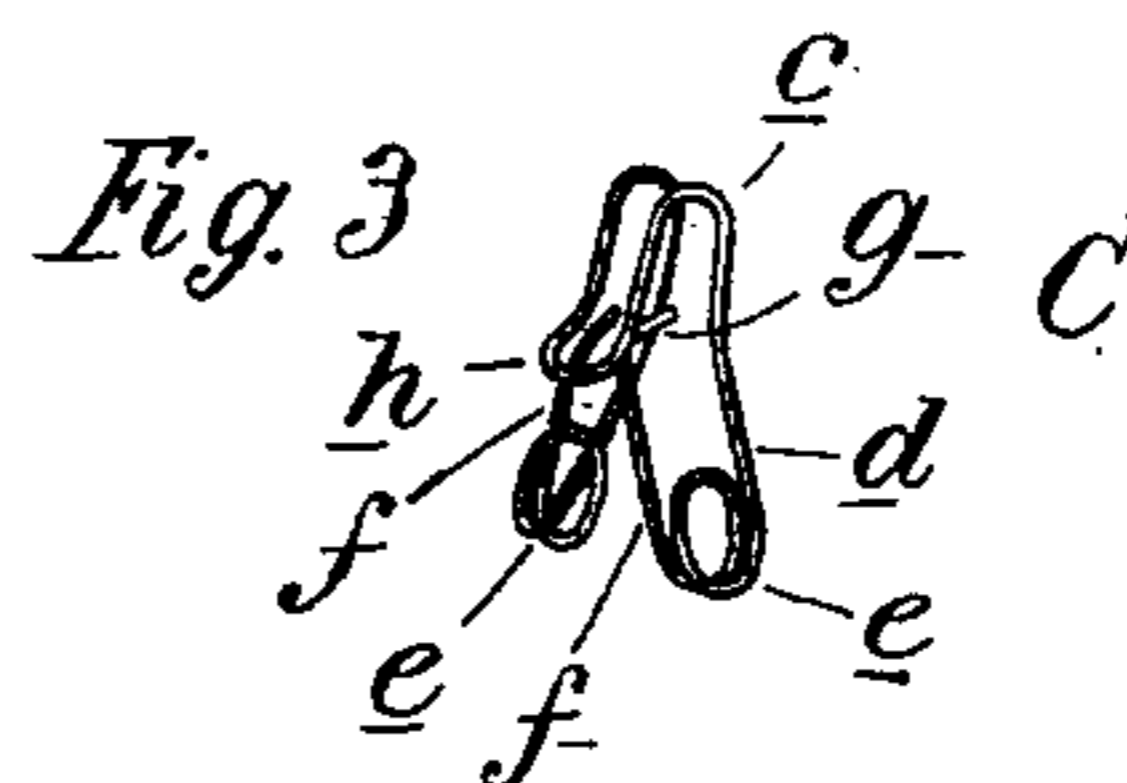
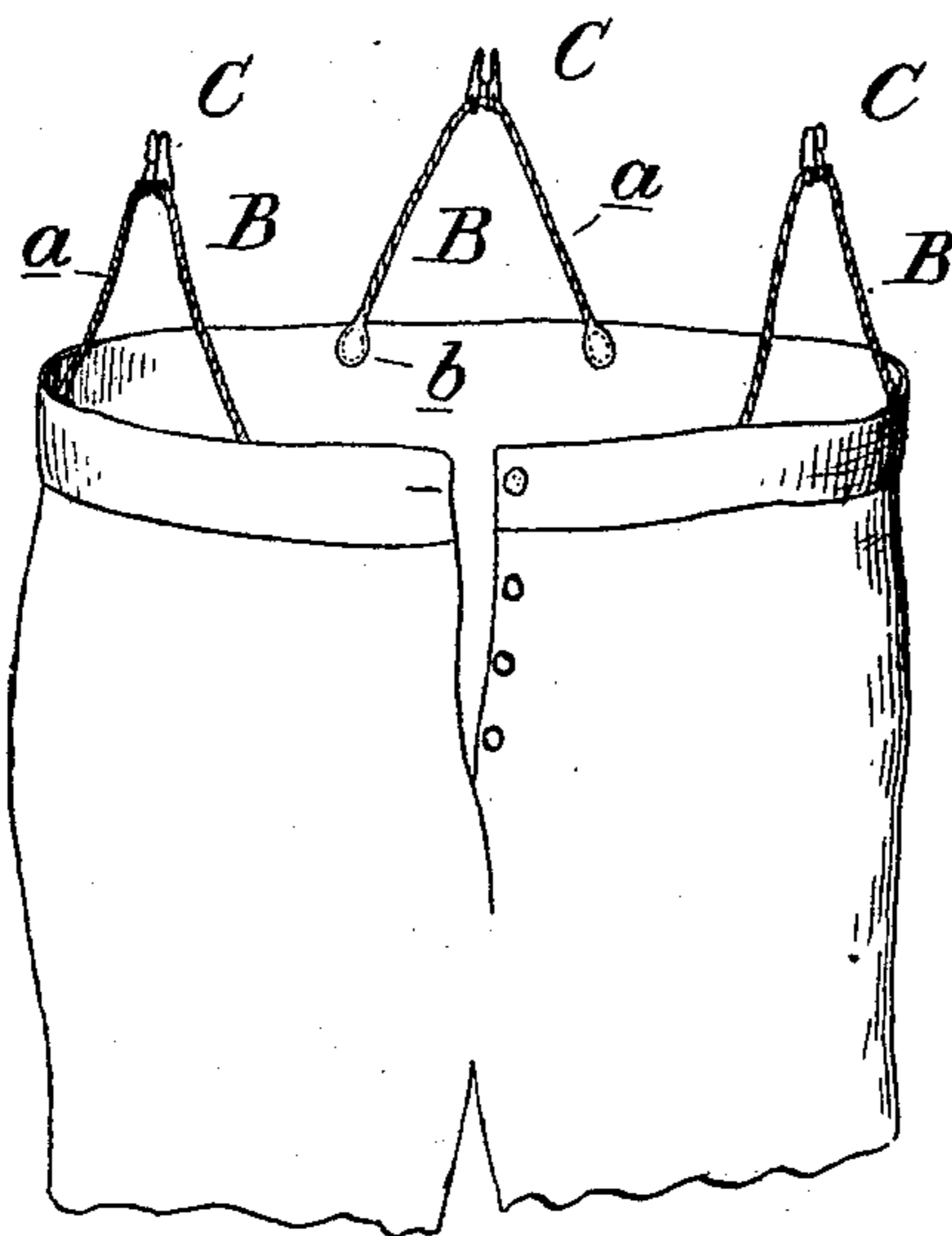
(No Model.)

J. LEES, Jr.  
SUSPENDER END ATTACHMENT.

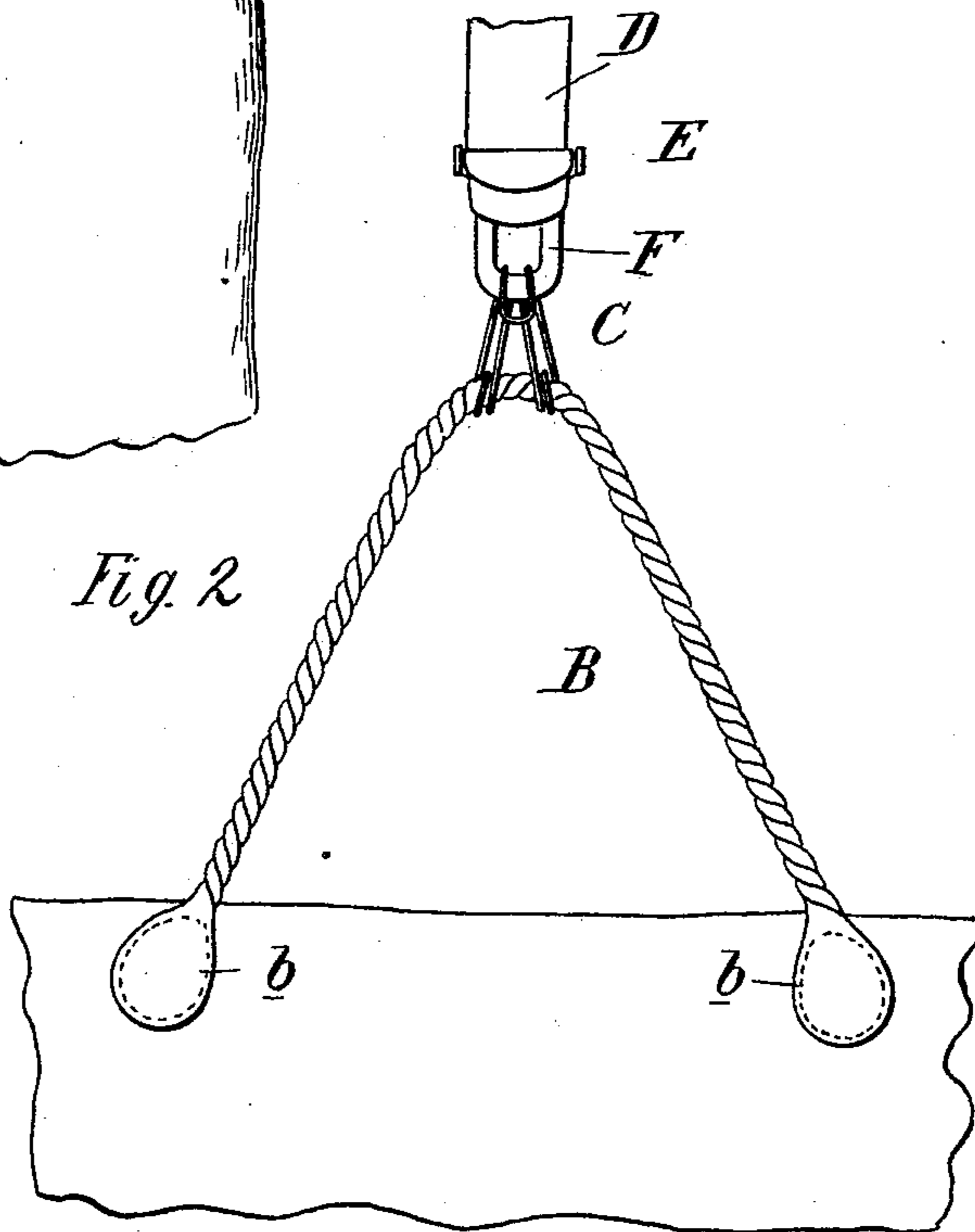
No. 481,360.

Patented Aug. 23, 1892.

*Fig. 1*



*Fig. 2*



Witnesses:

*P. M. Hulbert*  
*M. B. Dugherly*

Inventor:

*John Lees Jr.*  
*By Hoss Sprague*  
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# UNITED STATES PATENT OFFICE.

JOHN LEES, JR., OF ADRIAN, MICHIGAN.

## SUSPENDER-END ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 481,360, dated August 23, 1892.

Application filed April 15, 1892. Serial No. 429,298. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN LEES, Jr., a citizen of the United States, residing at Adrian, in the county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Trouser-Suspender Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to new and useful improvements in trouser-suspender attachments; and it consists in the peculiar construction, arrangement, and combination of the various parts, all as more fully hereinafter described.

15 In the drawings, Figure 1 is a perspective view of a pair of trousers, showing the loop secured therein. Fig. 2 is an enlarged elevation of one of the loops, showing the suspender engaged therewith; and Fig. 3 is a detached perspective view of one of the spring-hooks.

20 A are the trousers, to the top edge of which are secured the loops B. These loops I preferably make of braid strips *a*, having the flat tabs *b* formed at the ends, which are permanently secured to the upper edge of the trousers in any desired manner, preferably by sewing, and forming an inverted-V-shaped loop, as shown in Fig. 1. At the upper edge of this 30 loop is secured the spring-hook C. This spring-hook I make of a single piece of wire bent at the middle to form a hook *c*, the vertical depending portion *d*, the coils *e*, and the spring-arms *f* terminating in the inclined dis- 35 engaged portions *g*, which pass beyond the rear edge of the hook. The coils *e* not only give the necessary spring to the arms *f*, but also serve as the means of securing the hook to the loop D in one end of a pair of suspend-

ers, having at the end buckle E, terminating in 40 an eye F, preferably of thin sheet metal. The parts being thus constructed and the eyes at the lower end of the suspender being engaged with the hooks on the loops they may be adjusted to any desired height by means of the 45 buckles E. To disengage them, a downward movement of the eye F will bear against the inclined disengaged portion *g* of the spring-arm *f* and compress those arms to allow the eye to pass from beneath the hook. The hook 50 is provided with an upwardly-bent portion *h*, so that to re-engage it the wearer has simply to spring the eye F in between this upturned portion and the upper end of the spring-arms *f*, when a slight upward pull will compress the 55 arms *f* sufficient to engage the eye into the hook.

What I claim as my invention is—

The combination, with the end of a pair of suspenders, of loops formed of curved braided 60 strips having flat securing portions at their lower ends to be permanently secured to trousers, a spring-hook formed of a single piece of wire bent at its middle to form a hook *c*, the 65 shanks of which are bent, respectively, into coils constituting registering-eyes through which the strip passes, the ends of the wire terminating in spring-arms and carried up and engaging below the hook portion, and an 70 eye F on the end of the suspenders with which the hook engages, substantially as described.

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

JOHN LEES, JR.

Witnesses:

M. B. O'DOHERTY,  
N. L. LINDOP.