

(No Model.)

J. KATZENBERG.
SUSPENDERS.

No. 422,132.

Patented Feb. 25, 1890.

Fig. 1.

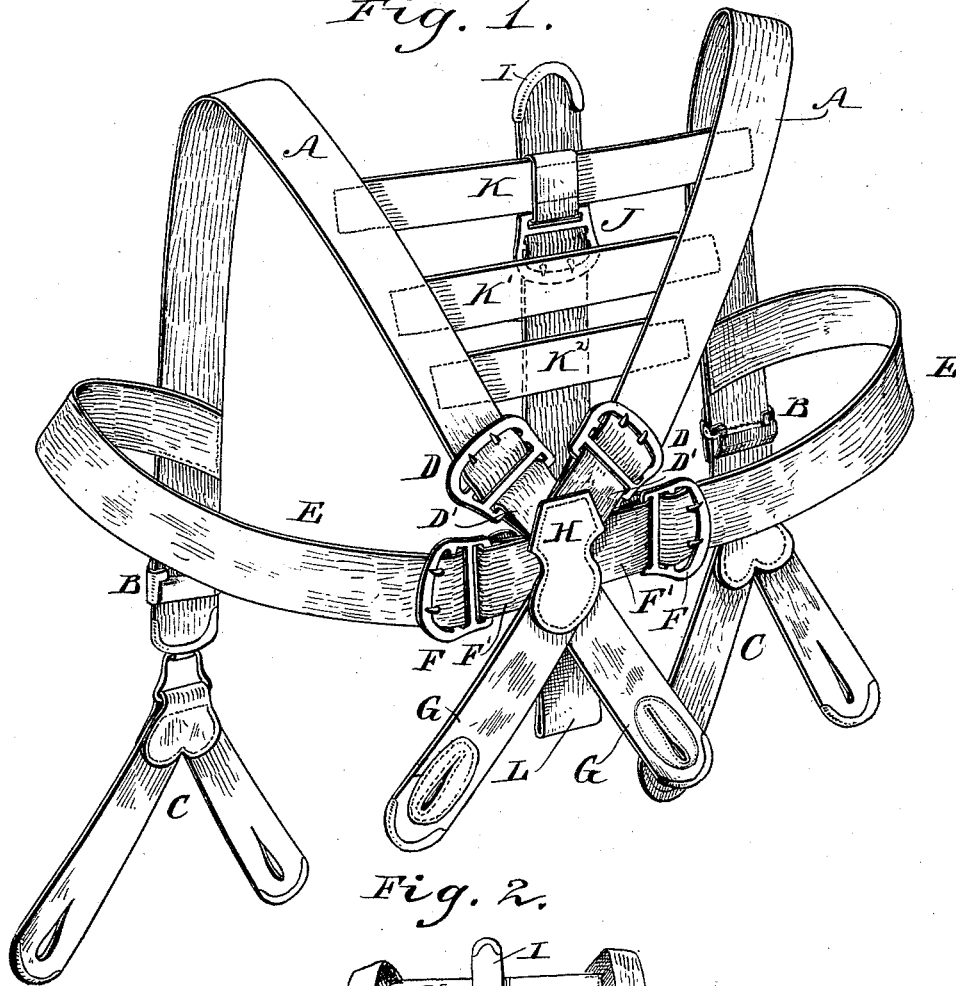
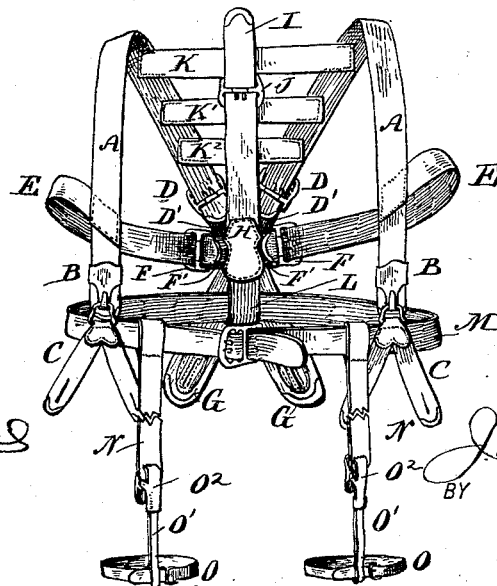


Fig. 2.



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SUSPENDER.

SPECIFICATION forming part of Letters Patent No. 422,132, dated February 25, 1890.

Application filed November 19, 1889. Serial No. 330,882. (No model.)

To all whom it may concern:

Be it known that I, JACOB KATZENBERG, of the city, county, and State of New York, have invented a new and Improved Combined Suspenders and Shoulder-Brace, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my invention; and Fig. 2 is a front view showing the same provided with a belt and with stocking-supporters.

The invention will first be described in connection with drawings and then pointed out in the claims.

A A represent shoulder-straps provided at the front ends with buckles B B and suspender-ends C C, and connected at the back to the buckles D D, attached to tabs D' D', and E E represent straps to go under the arms. These are attached to the shoulder-straps A in front and attached at the back to the buckles F F, secured to the tabs F' F'.

The tabs D' F' and the back suspender-ends G G are united by the heart-piece H. To this heart-piece is also secured the vertical strap I, which is held at its upper end in the buckle J, attached to the top back strap K. Besides this back strap K there are two others K' K², all connected at their ends to the shoulder-straps A A. The straps K serve to prevent the straps A from slipping off the shoulders.

By adjusting the vertical strap I in the buckle J a very powerful bracing effect can be produced, which will tend to throw back the shoulders of the wearer and at the same time support the body from the waist up and beneath the arms. This effect is produced by drawing down the transverse strip K, and the consequent drawing toward each other of the shoulder-straps A, the belt being comparatively immovably fixed to the body.

At the bottom of the heart-piece H is attached the loop L, in which may be fitted the belt M. This is designed mainly for ladies,

and to this belt are attached the straps N, to which the garters O are attached by the tapes O' and snaps O² or other detachable fastening devices.

The garters O may be made of non-elastic material, as they are held up by the tapes and need no inherent pressure; hence by this means the non-elastic garter may be successfully worn with much greater comfort than the elastic garters, which constantly exert disagreeable pressure upon the wearer's legs.

The different buckles are arranged so that the straps may be adjusted to attain any desired size.

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

1. The combined suspenders and shoulder-brace herein shown and described, comprising the shoulder-straps A and suspender-ends, the straps E, attached to the shoulder-straps and adjustably attached to the back heart-piece, the transverse straps K K' K², joining the shoulder-straps at the back, the vertical strap I, connected to the strap K and adjustably attached to the heart-piece, the said heart-piece being provided with the back suspender-ends G and four buckles and loops E, substantially as shown and described.

2. The back heart-piece provided with two suspender-ends and four buckles and the loop L, the shoulder-straps and their front suspender-ends, and the straps E, transverse straps K K' K², and adjustable vertical strap I, in combination with the belt M, substantially as described.

3. The back heart-piece provided with two suspender-ends and four buckles and loop L, the shoulder-straps and their front suspender-ends, and the straps E, transverse straps K K' K², and adjustable vertical strap I, in combination with the belt M, straps N, and the garters O, detachably connected to the said straps N, substantially as described.

JACOB KATZENBERG.

Witnesses:

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