

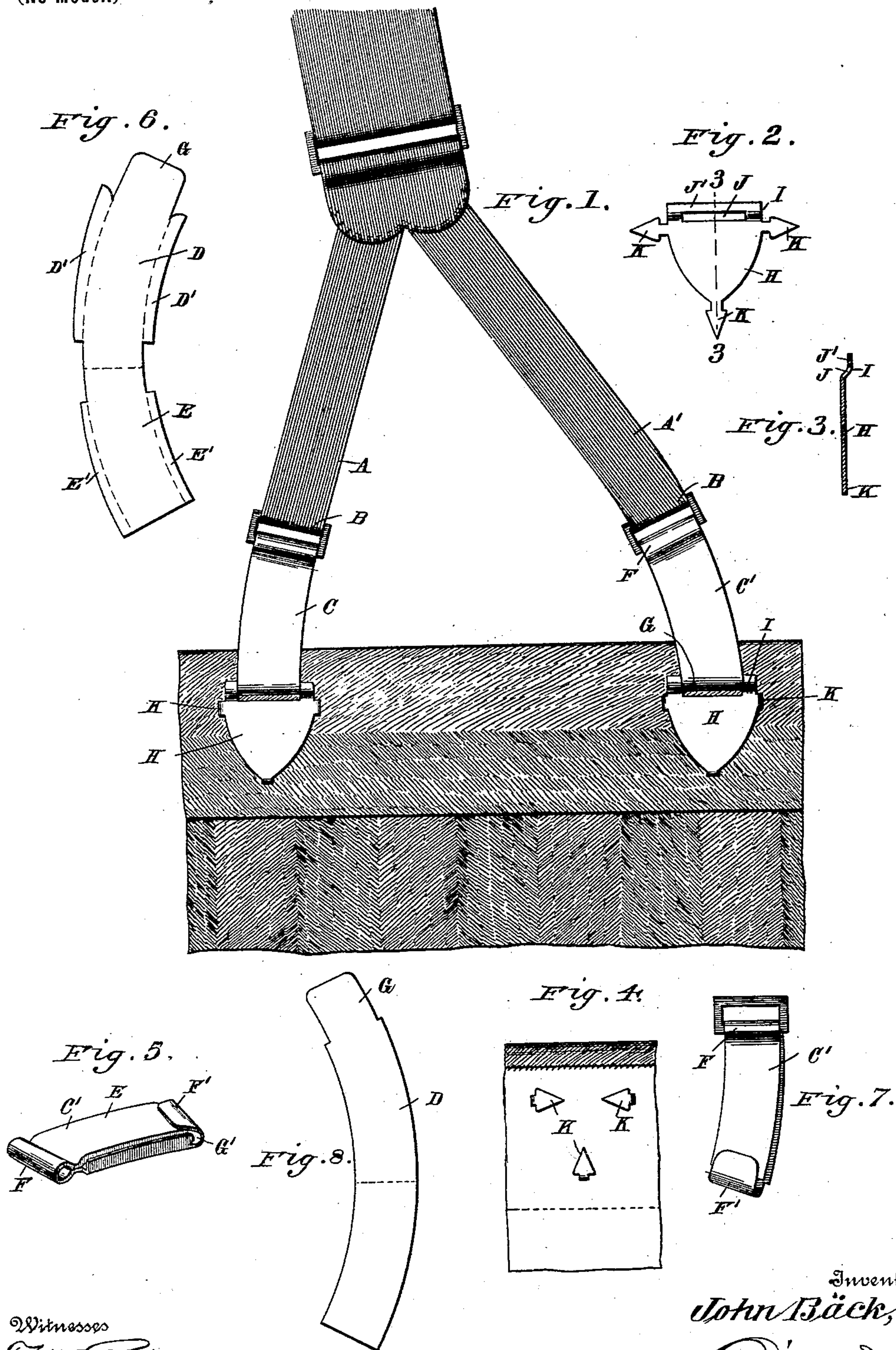
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J. BÄCK.
SUSPENDERS.

(Application filed Mar. 29, 1898.)

(No Model.)



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UNITED STATES PATENT OFFICE.

JOHN BÄCK, OF HANCOCK, MICHIGAN.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 632,689, dated September 12, 1899.

Application filed March 29, 1898. Serial No. 675,569. (No model.)

To all whom it may concern:

Be it known that I, JOHN BÄCK, a citizen of the United States, residing at Hancock, in the county of Houghton and State of Michigan, have invented a new and useful Improvement in Suspenders, of which the following is a specification.

My invention relates to suspenders, and more particularly to the means whereby the suspenders are attached to and detached from the waistband of pantaloons.

The object of my invention is to furnish means for attaching the tabs or ends of suspenders to the waistband of pantaloons which shall take the place of the buttonhole ends on the suspenders and buttons on the pantaloons, whereby the annoyance due to wearing out or enlargement of the buttonholes or breaking off of the buttons from the pantaloons is obviated.

With this object in view my invention consists in a snap-hook of improved construction to be attached to the tab ends of suspenders.

My invention further consists in an improved eye for attachment to the pantaloons to take the place of the button.

My invention further consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically pointed out in the appended claims.

In order to enable others skilled in the art to which my invention most nearly appertains to make and use the same, I will now proceed to describe its construction and operation, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a view in side elevation illustrating the ends of one suspender secured to the pantaloons by means of attaching devices constructed in accordance with my invention. Fig. 2 is a view of my improved eye for attachment to the pantaloons before bending into shape for attachment. Fig. 3 is a vertical section on the line 3 3 of Fig. 2. Fig. 4 is a view of the inside of the waistband with the eye attached. Fig. 5 is a detail perspective view of the snap-hook. Fig. 6 is a view of the blank from which the snap-hook is formed. Fig. 7 is a detail perspective view of a modified

form of snap-hook. Fig. 8 is a view of the blank from which it is made.

Like letters of reference mark the same parts wherever they occur in the various figures of the drawings.

Referring to the drawings by letters, A and A' indicate the tab ends of a pair of suspenders, which are provided at their outer ends with loops B and B', by means of which my improved snap-hooks C and C' are linked thereto.

My improved snap-hook is formed of a blank of sheet metal, as illustrated in Fig. 6, and when finished has the appearance illustrated in Fig. 5, when it consists of two wings D and E, lying substantially parallel with each other at a slight distance apart, the wing D having flanges D' and the wing E having flanges E' bent along their edges, said flanges extending toward each other and the wing D being of a slightly less width than the wing E, whereby its flanges D' may move freely within the flanges E' of the wing E, as hereinafter described. The metal from which these wings are formed is bent into substantially tubular form at about its mid-length, as illustrated at F in Fig. 5. Thus far the blank may be formed before attaching it to the tab end A or A', and it may be attached thereto by slipping either wing through the loop B or B' until the wire of the loop rests in the tubular bend F, before described. The end G of the blank then projecting beyond the wing E (see Fig. 6) is given a return-bend and lapped over the outside of the wing D, as shown at F' in Fig. 5, thus preventing the wing D from springing too far away from the wing E, its normal tendency being to spring open.

In Fig. 2 I have illustrated my improved eye, which I substitute for the suspender-button. This eye consists of a single piece of sheet metal comprising a plate H, having its upper end bent, as at I, and being provided in its upper end with a slot J. Arrow-head tangs K project laterally and from the lower end of the plate H, and to attach the eye to the waistband these tangs are bent at right angles to the plate, pressed through the waistband, and clenched on the inside thereof, as shown in Fig. 4.

In attaching the suspender-ends the wing

D of the snap-hook C or C' is depressed toward the wing E, leaving a space between the outer surface of the wing D and the overlapping end G'. This overlapping end is entered into the slot J until the bar J' has passed beyond the end of the wing D, when said wing is permitted to resume its outward normal position, due to its own resiliency or elasticity, when the snap-hook will be loosely attached to the eye, but securely held against displacement.

In Figs. 7 and 8 I have illustrated a device of modified form which may be substituted for that illustrated in Figs. 5 and 6. In this device the flanges D' and E' are omitted, the space under the overhanging end G being about twice as wide as the thickness of the wings D and E, the end of the wing D preventing the displacement of the snap-hook.

From the foregoing it will be obvious that I have produced an attachment for suspenders of simple, cheap, and durable construction and which when substituted for the ordinary button and buttonhole end will be possessed of many advantages thereover. In the first place, there will be absolutely no tendency of the snap-hook to become loosened or detached from the waistband-loop. Neither will there be any tendency for the waistband-loop being loosened or lost, as is the case with buttons. The attachment and detachment of the device is also much more easily and quickly performed, and the device will last

much longer than the ordinary buttonhole-tab end.

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

1. The combination with a suspender-end, of a spring-hook secured thereto comprising a strip of sheet metal bent back upon itself to form two wings, substantially parallel with each other at a slight distance apart, each wing being flanged along its outer edge, one of said wings being of slightly less width than the other whereby its flanges may move freely within the inner sides of the flanges of the larger wing; and a hooked end on one of said wings adapted to engage an eye secured to waistband of the pantaloons for the purpose set forth.

2. The blank for suspender snap-hooks herein described consisting of an elongated, laterally-curved strip of metal having two pairs of opposite laterally-projecting wings, one pair extending from one end to near the center and the other pair beginning at a short distance therefrom and extending nearly to the opposite end, leaving the central and one end portion of the blank of the width of its body only, substantially as described.

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