(No Model.) A. SHENFIELD & C. VOORHIS.

Fig. h.

SUSPENDER BUCKLE. No. 332,448. Patented Dec. 15, 1885.

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Fig. 3.





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UNITED STATES PATENT OFFICE.

ABRAHAM SHENFIELD AND CALVIN VOORHIS, OF NEW YORK, N. Y.

SUSPENDER-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 332,448, dated December 15, 1885.

Application filed October 6, 1885. Serial No. 179,127. (No model.)

To all whom it may concern:

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Be it known that we, ABRAHAM SHENFIELD and CALVIN VOORHIS, of the city and State of New York, have invented an Improvement in 5 Suspender-Buckles, of which the following is a specification.

Buckles for suspenders have been made with a body, at the back of which a lever is pivoted to clamp the suspender-strap, and 10 usually there are teeth at the edge of the lever that come into contact with the suspender. In these buckles there are usually edges and corners upon the sheet metal at the back part of the body, and these are liable to wear the 15 shirt or other parts of the clothing with which they come into contact.

Our invention is made for rendering the back of the suspender-buckle smooth and free from any projecting sheet-metal edges, and for 20 strengthening such buckle.

In the drawings, Figure 1 is a section of the buckle complete. Fig. 2 is a perspective |

made with teeth at the end of the right-angle lip e, but it may have a plain edge and be otherwise formed in any desired manner; but we prefer the form and construction next de- 55 scribed. The lever B is of a width to pass in between the eye c, and between the returned flanges *i i* of the body A, and in order to strengthen the lever B we employ end braces, o, that extend across the angles at the bend or 60 fold in the lever. The sheet metal should be cut out in the form shown in Fig. 5, and then bent or folded at right angle, and the braces o turned over upon a form or die by pressure, so as to condense the metal, and holes are 65 made through the braces o for the passage of the pivot-wire s. The sheet metal at the angle in the clamping-lever is pressed inwardly to form one or more loops, r, through which the pivot - wire passes. These firmly secure 70 the pivot-wire and stiffen the lever. These loops are to be at any desired place or places along in the angle. When near the ends of

view of the body of the buckle. Fig. 3 is a similar view of the bent clamping-lever, as

25 seen from the inside. Fig. 4 is a representation of the plate as cut out to form the body of the buckle. Fig. 5 represents the plate as cut out to form the bent clamping-lever, and Figs. 6, 7, and 8 are perspective views of modi-3c fications of parts of the buckle.

In Figs. 1, 2, 3, 6, 7, and 8 the parts are shown in enlarged size.

The body A is made of sheet metal, cut out case the pivot-pin, instead of being inclosed 85 similar to the blank shown in Fig. 4. This is 35 folded or bent at the lines a a b b, so as to at its ends within the body A, will pass through assume a partial box form, and the strap porthe metal at the ends of the eyes e, and through tions c c project sufficiently to be bent around the end pieces q, and be riveted. to form eyes for the pivots of the clamping-We claim as our invention lever B. These eyes, being in one piece with | 1. The buckle-body A, having returned end 90 40 the body A, and the sheet metal being bent flanges and the metal strap-pieces bent up into circular eyes, in combination with the clampor rolled over, form very strong pivot-bearings, that are not liable to give way by the strain ing-lever and the pivots thereof, which pivots to which they are subjected. It is preferable enter into the eyes, substantially as set forth. 2. The buckle-body having pivot-eyes 95 to bend the strap portions c inwardly, as seen formed of the bent-up straps, and the returned 45 in Fig. 2; but these strap portions may be bent the other way, as seen in Fig. 6, if preferred. end flanges, in combination with the clampinglever and a pivot - wire for connecting the In any case the pivot-eyes are preferably bent so that the metal of the body comes at the ends clamping-lever to the eyes in the body, subof the pivot-wire, to hold the same in place stantially as set forth. IOD 55 and dispense with riveting the ends of the 3. The combination, with the buckle-body pivot-wire. The clamping-lever B is usually | and the pivot-wire, of a bent clamping-lever

the bent lever and adjacent to the braces o, the holes in the braces may be punched before 75 bending such braces up to place.

The hook or eye at p, for the suspender-end or any other suitable device, is provided upon the body A for the connection of the suspender-end.

80 The clamping-lever, instead of passing in between the returned flanges *i*, may have side pieces q, as seen in Fig. 7, to swing down outside the side portions of the body. In this

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having braces at the ends of the bent portion, with holes through which the pivot wire passes, substantially as set forth.

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4. The combination, with the buckle-body 5 and the pivot-wire, of a bent clamping-lever having loops in the bend through which the pivot-wire passes, substantially as set forth. 5. The combination, in a suspender-buckle, of the body A, having returned end flanges, 10 and pivot-eyes formed of the strap pieces bent up, and a bent clamping-lever with perforated

braces at the ends of the bent portions, and loops bent in the sheet metal for the passage of the pivot-wire, substantially as set forth. Signed by us this 5th day of October, A. D. 15 1885.

> ABRAHAM SHENFIELD. CALVIN VOORHIS.

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Witnesses:

WALLACE L. SERRELL,

WILLIAM G. MOTT.

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