

(No Model.)

J. E. SOLT.
SUSPENDER BUCKLE.

No. 577,080.

Patented Feb. 16, 1897.

FIG. 1.

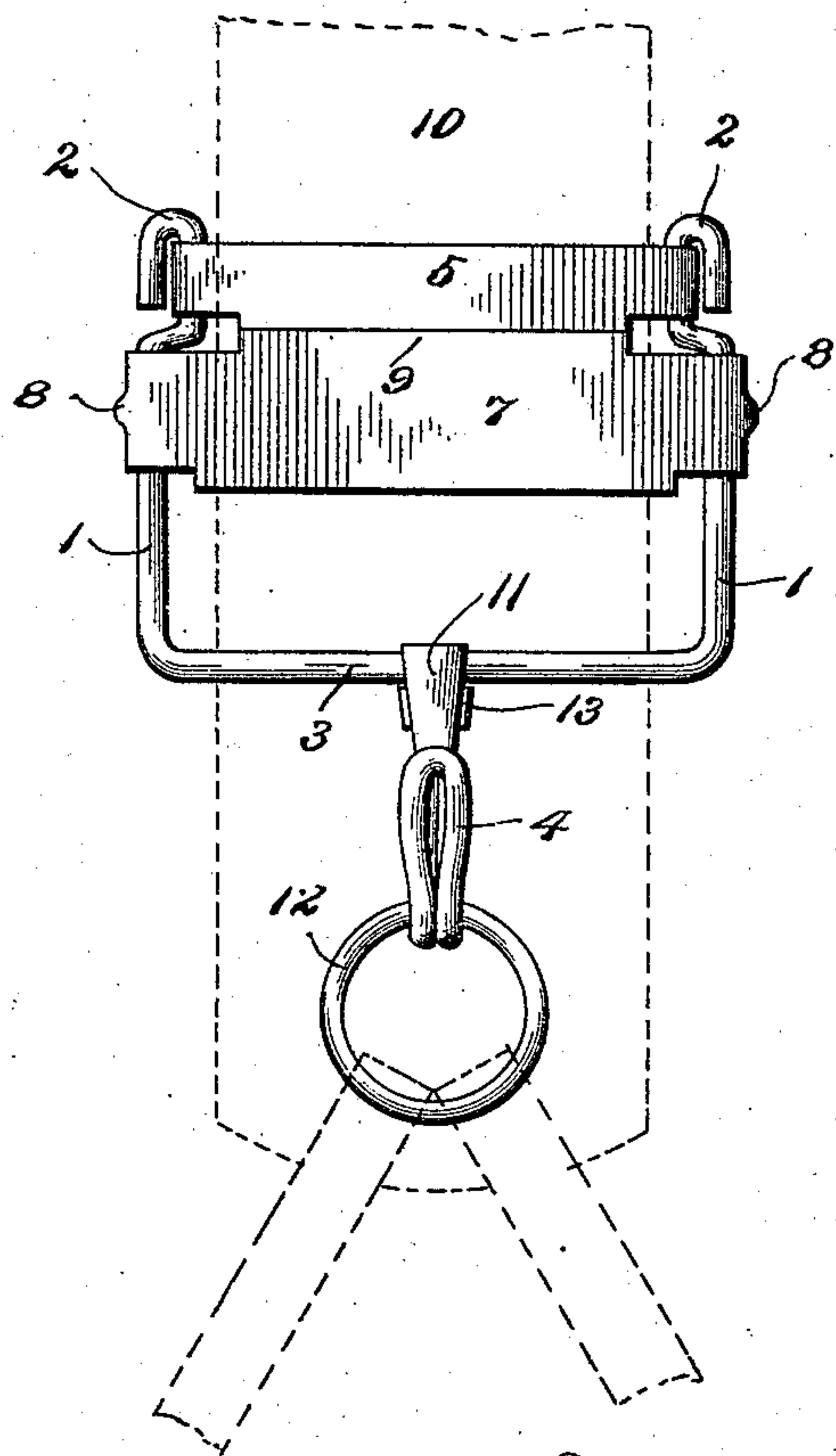


FIG. 2.

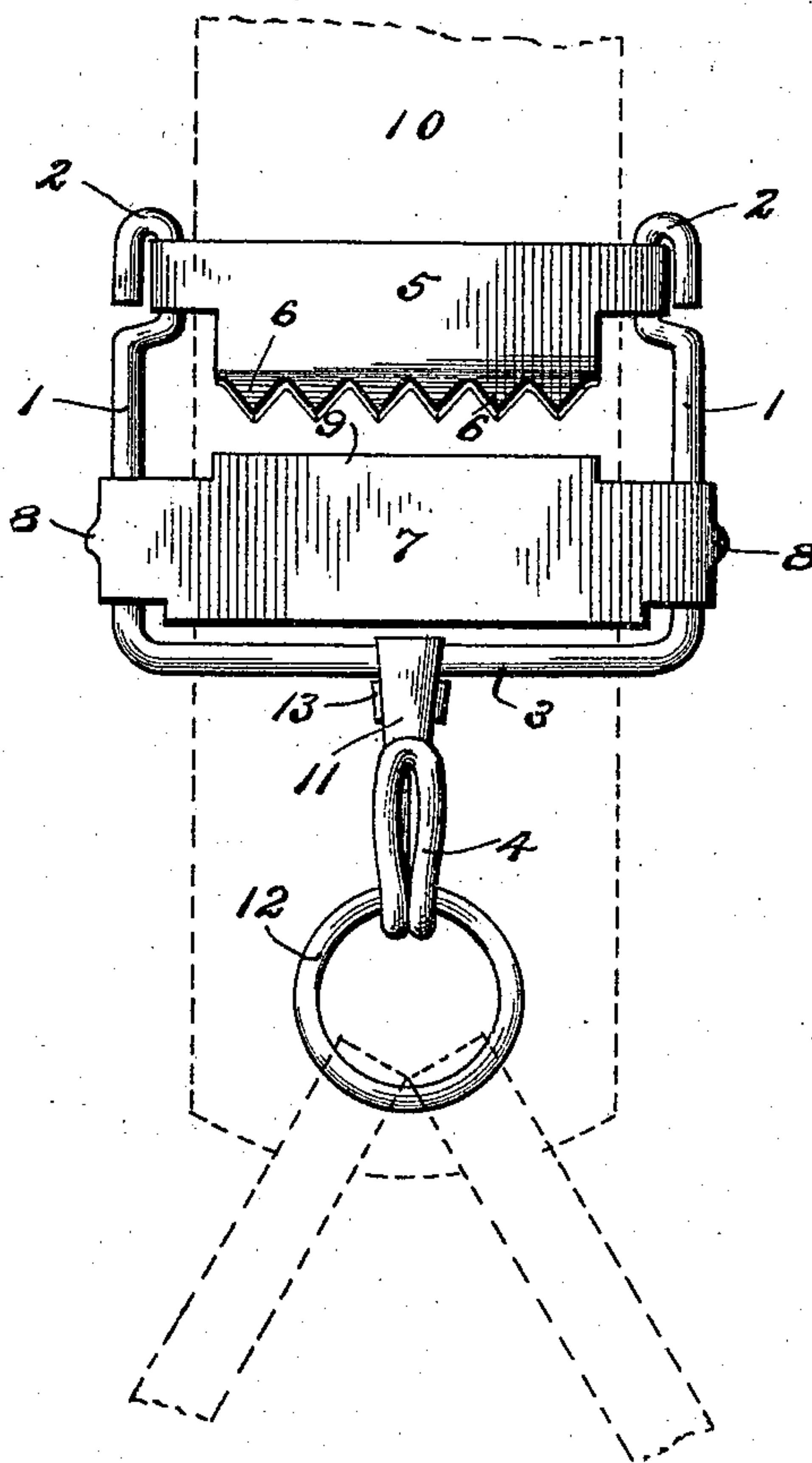


FIG. 3.

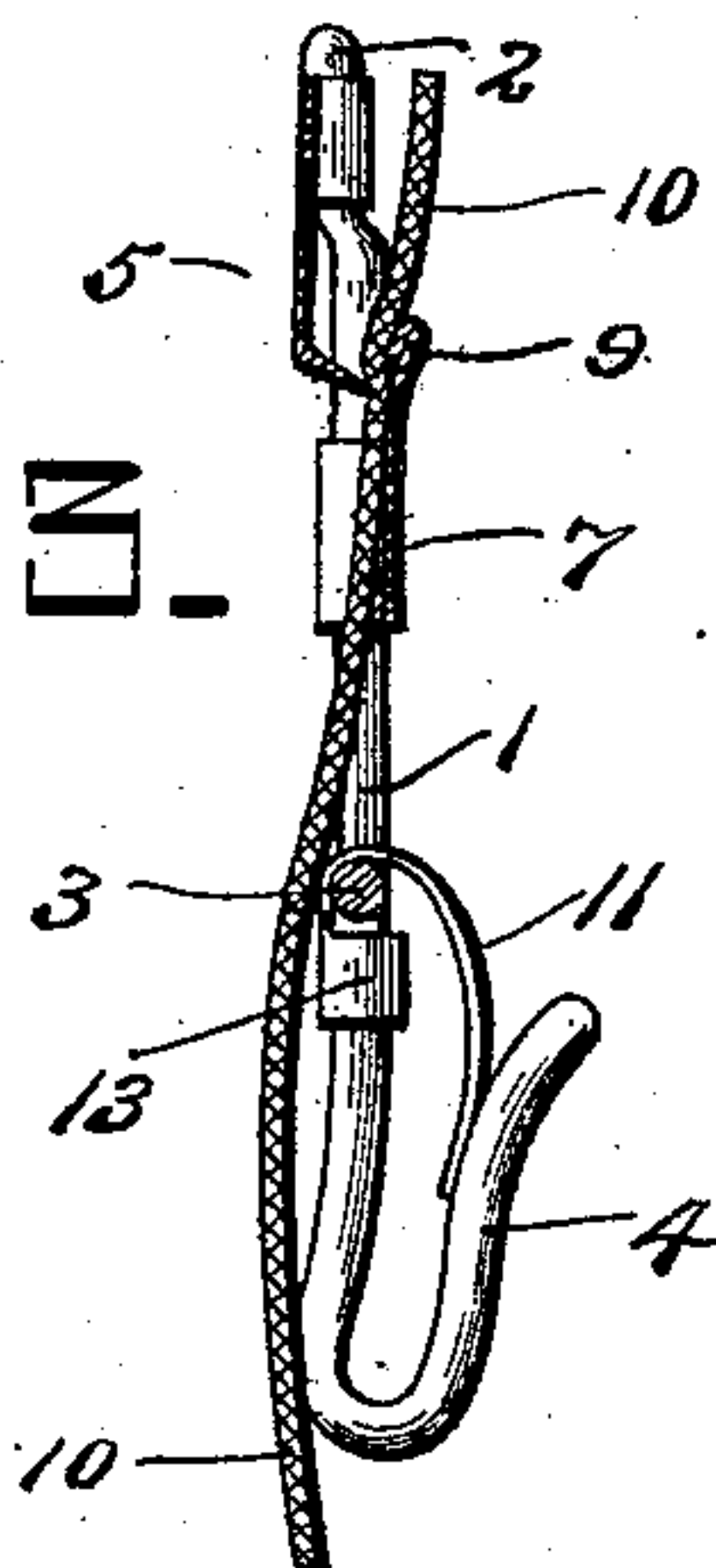
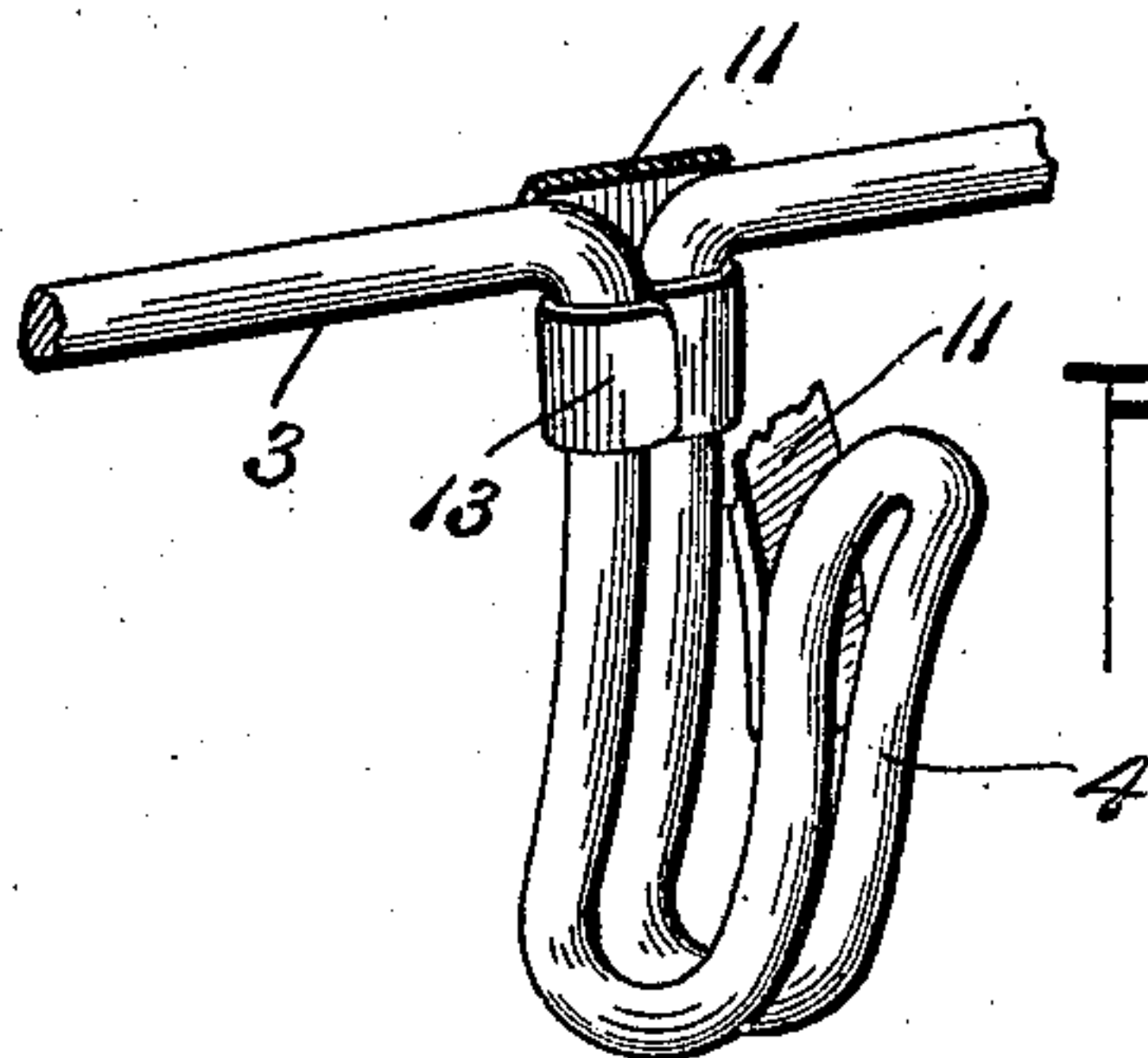


FIG. 4.



Witnesses

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By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

JAMES E. SOLT, OF BELLEFONTE, PENNSYLVANIA.

SUSPENDER-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 577,080, dated February 16, 1897.

Application filed May 21, 1896. Serial No. 592,470. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. SOLT, a citizen of the United States, residing at Bellefonte, in the county of Centre and State of Pennsylvania, have invented a new and useful Suspender-Buckle, of which the following is a specification.

This invention aims to devise a construction of suspender-buckle which will require a minimum amount of material in its manufacture consistent with strength and durability, and which will be light, admit of the suspenders being quickly adjusted, and secure the same positively in an adjusted position.

Other objects and advantages are contemplated, and to a full understanding of the same and the details of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a front elevation of a suspender-buckle, showing the slide in the position which it will occupy when the strap is held fast. Fig. 2 is a view similar to Fig. 1, showing the slide moved away from the toothed bar or plate. Fig. 3 is a vertical central section thereof. Fig. 4 is a detail view of the spring for retaining the ring of a suspender-end within the hook of the buckle.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference-characters.

The buckle-frame is preferably right angular in outline, and is constructed of wire bent into the form substantially as shown, and comprises side members 1, having eyes 2 at their upper ends formed within the outer sides of the frame, so as to obviate outer projections, and a lower member 3, having a loop intermediate of its ends bent to provide the hook 4, which receives the ordinary ring of the common suspender-end as generally provided. The upper end of the frame is open, and the terminals of the side members 1 are connected by a cross bar or plate 5, which is

toothed at its lower edge, so as to engage positively with the suspender-strap and secure the latter in an adjusted position. The teeth 6 of the bar or plate 5 are deflected or curved forwardly, so as to engage with the suspender-strap and prevent their catching into the garment or wearing-apparel. The ends of the cross bar or plate 5 are looped into the eyes 2, and the latter are elongated in the direction of the side members, and the end portions of the cross bar or plate are sufficiently wide, so as to prevent any possible turning or giving of the cross bar or plate when the latter is subjected to strain incident to the use of the suspenders to which the buckle is applied.

A bar or plate 7 is slidably mounted upon the side members 1 and has its end portions bent around the said side members, whereby the plate or bar is directed in its movements when being advanced toward or drawn away from the toothed bar or plate 5. Knobs or projections 8 are provided at the outer ends of the bar or plate 7 to be engaged by the thumb and finger when sliding the said bar, thereby obviating slipping and enabling the said bar to be firmly grasped between the thumb and finger when it is required to move it to secure an adjustment of the suspenders. A lip 9 is formed at the top edge of the slidable bar or plate 7 and curves forwardly and is intended to act in opposition to the teeth 6, so as to insure a gripping of the suspender-strap when the buckle is in service. The suspender-strap 10 passes between the parts 5 and 7 and in front of and beneath the slidable bar 7 and back of the hook 4. Hence when drawing upon the lower end of the said strap it will pass freely between the parts 5 and 7, thereby admitting of the shortening of the said strap, and after the required adjustment is secured the bar 7 is moved toward the bar 5, thereby crowding the strap between the teeth 6 and the lip 9, whereby the said strap is firmly held in the required position.

The spring 11 for retaining the ring 12 of the ordinary suspender-end within the hook 4 extends over the space or joint formed between the members comprising the loop, which is doubled to form the hook 4 and is formed with wings 13, which are bent so as

to embrace the side members of the loop adjacent to the member 3. By this means the buckle-frame is strengthened and prevented from spreading at its lower end, and the
5 spring 11 has positive connection therewith. This spring extends across the space formed between the shank and bill of the hook 4 and prevents the accidental displacement of the ring 12. The wings 13 are clenched opposite
10 the base portion of the spring 11, and the joint is concealed by the said spring, which extends thereover, thereby giving a neat finish to the buckle.

Having thus described the invention, what
15 is claimed as new is—

1. In a buckle, a frame open at its upper end, a toothed bar or plate connecting the upper ends of the side members of the frame and having its teeth deflected forwardly, and
20 a bar or plate slidably mounted upon the side

members of the frame and having a lip forwardly deflected and adapted to act in opposition to the teeth of the toothed bar or plate, substantially as and for the purpose set forth.

2. In a buckle, a frame having its side mem- 25
bers formed at their extremities with elongated eyes, a toothed bar or plate having its extremities looped into or bent around the inner portion of the said eyes, and a bar or plate slidably mounted upon the said side 30
members, substantially in the manner set forth for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES E. SOLT.

Witnesses:

H. H. HARSHBERGER,
J. C. MEYER.