

(No Model.)

L. L. FROST.
HOOP RETAINING ATTACHMENT.

No. 420,680.

Patented Feb. 4, 1890.

Fig. 1.

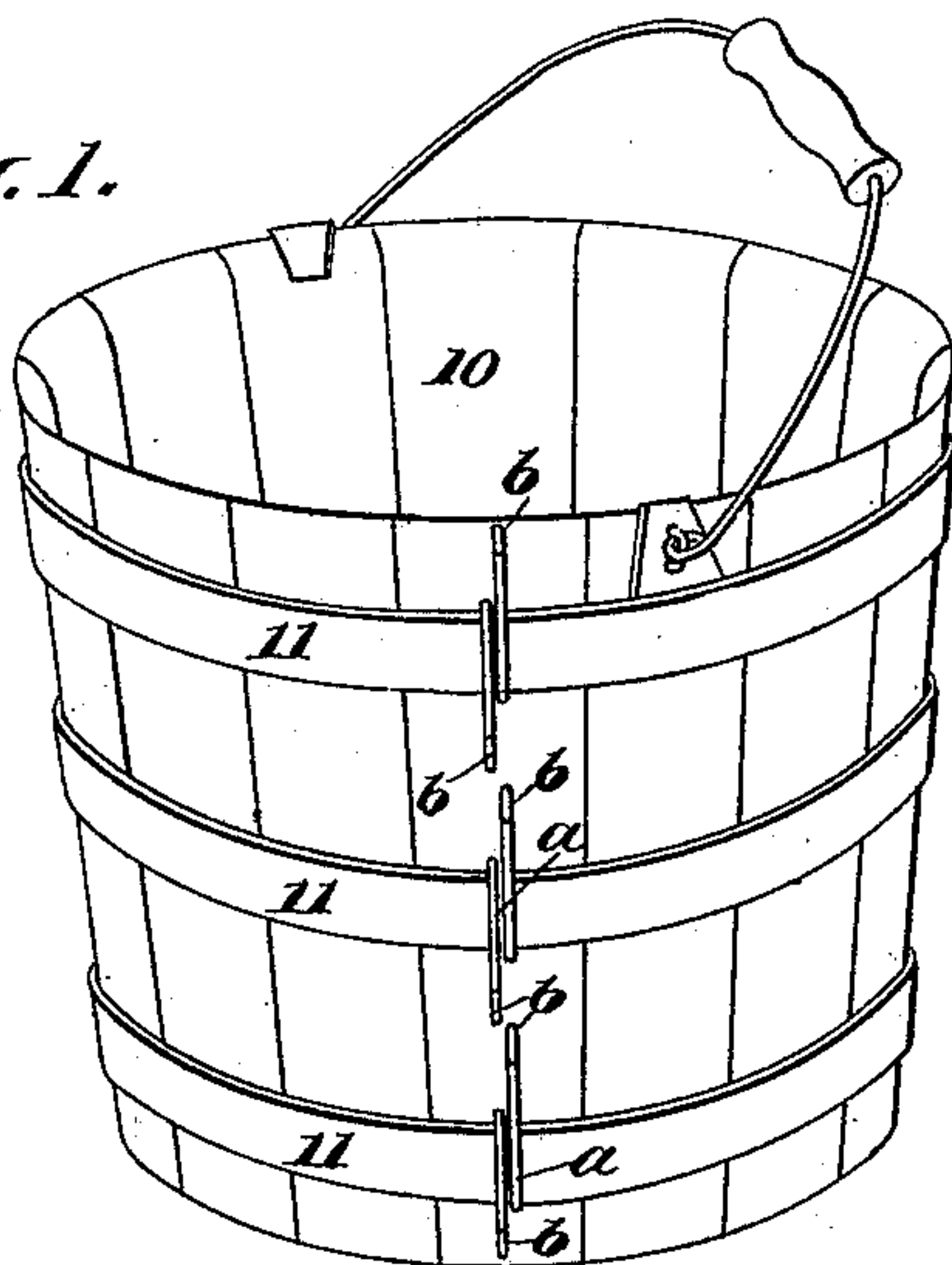


Fig. 2.

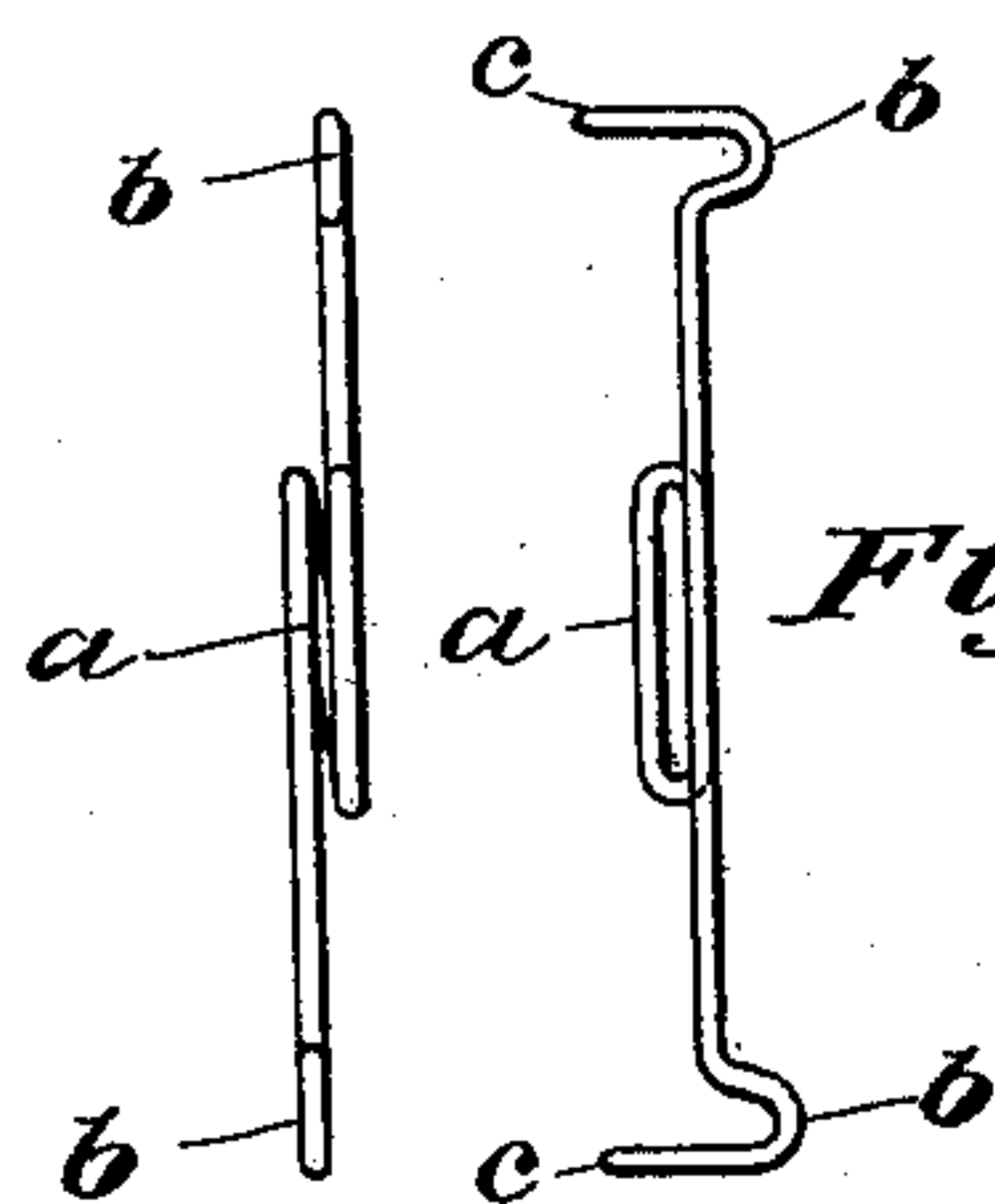


Fig. 2a.

Fig. 3.

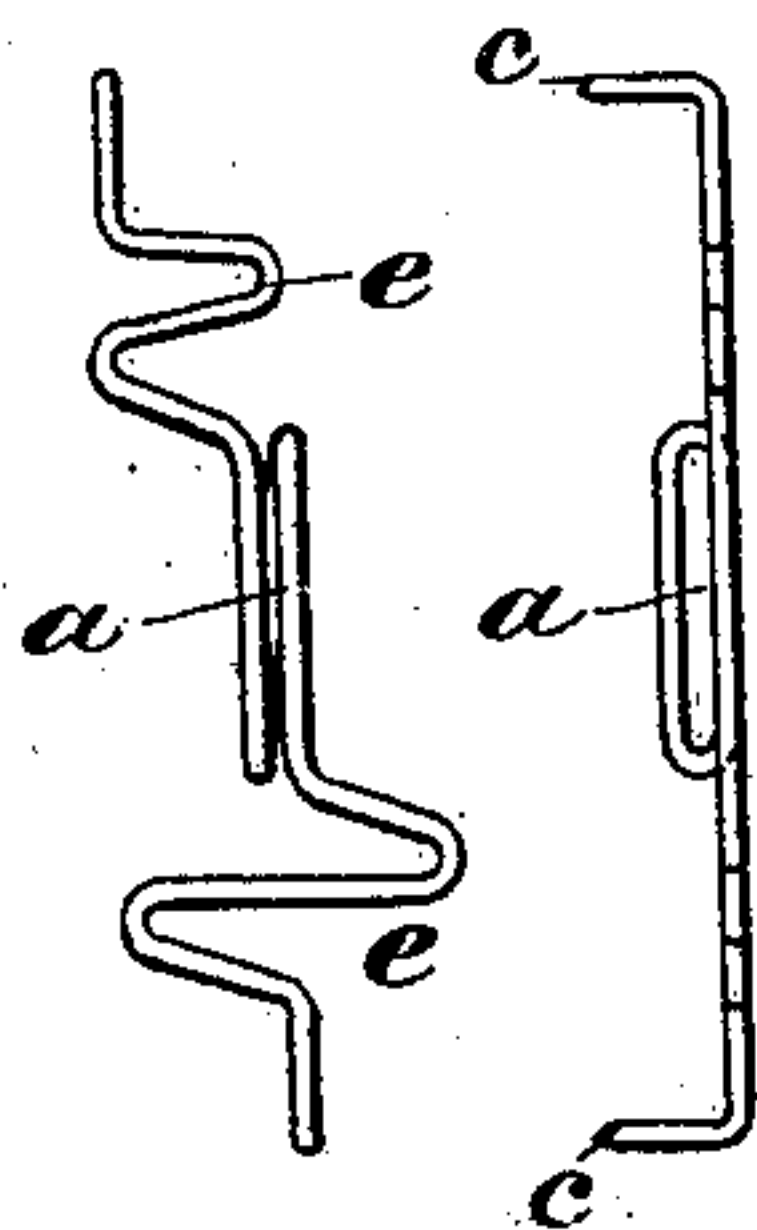
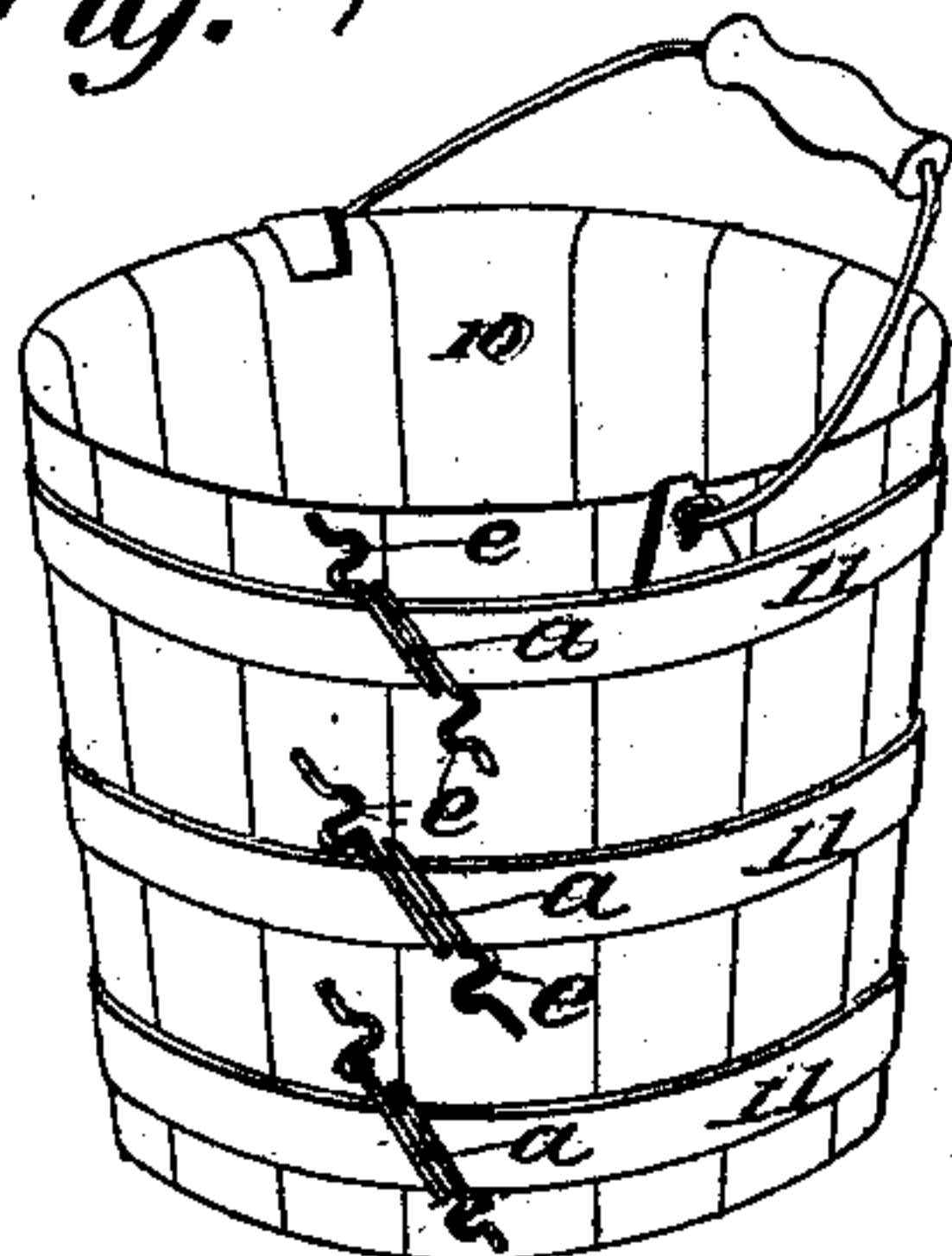


Fig. 3a.

Fig. 4



WITNESSES:

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LEONARD L. FROST, OF BARADA, NEBRASKA.

HOOP-RETAINING ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 420,680, dated February 4, 1890.

Application filed April 22, 1889. Serial No. 308,115. (No model.)

To all whom it may concern:

Be it known that I, LEONARD L. FROST, of Barada, in the county of Richardson and State of Nebraska, have invented a new and Improved Hoop-Retaining Attachment, of which the following is a full, clear, and exact description.

This invention relates to an attachment that is applicable for use in the manufacture of coopers' ware, the object of the invention being to prevent the accidental displacement of the hoops by which the staves are held to place; and to the end named the invention consists in the construction and arrangement of parts, as will be hereinafter more fully explained, and specifically pointed out in the claims.

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 all the views.

Figure 1 is a perspective view of a pail, representing the same as it appears when provided with my improved hoop-retaining attachment. Fig. 2 is an edge view of the attachment shown in Fig. 1. Fig. 2^a is a side view thereof. Fig. 3 is an edge view of a modified form of attachment. Fig. 3^a is a side view thereof. Fig. 4 is a perspective view of a modified application of my hoop-retaining attachment.

In the drawings, 10 represents a pail or bucket, of which the hoops are shown at 11. In order that these hoops may be retained in position upon the peripheral face of the pail or bucket, I provide an attachment which consists of a single length of wire bent to form a loop or eye *a*, through which the hoop is passed, the ends of the wire being pointed and bent to U form, as shown at *b*. With this construction the hoop is passed through the loop or eye *a*, and the points *c* are driven into the pail-body, the arrangement being such that

the hoops will be yieldingly held in position.

In Fig. 3 the ends of the wire beyond the loops or eyes *a* are bent sinuously, as shown at *e*, and the U-bends *b* are omitted.

The attachment shown in Figs. 3 and 3^a is applied in the same manner as is the attachment shown in Figs. 2 and 2^a.

Any number of these attachments might be employed in connection with each hoop; but in practice three of the attachments would probably be found to be sufficient.

In Fig. 4 I illustrate a modified system of applying the attachments, said attachments being arranged diagonally, so that their retaining-points will engage adjacent staves and act to hold the parts together.

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

1. As a new article of manufacture, a hoop-support formed of a single wire provided between its ends with a flattened or elongated hoop-receiving loop *a* and projecting in opposite directions therefrom, the ends of the wire being bent inwardly on the same side as the loop to form penetrating-points *c*, and bends in the wire at opposite sides of the loop to allow the support to yield longitudinally, substantially as set forth.

2. As a new article of manufacture, a hoop-support formed from a single wire bent in opposite directions to form the elongated loop *a*, penetrating-points *c* at the ends of the support on the same side as the loop, and U-bends *e* in the wire at opposite sides of the loop and projecting in a plane at right angles thereto, substantially as set forth.

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Witnesses:

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