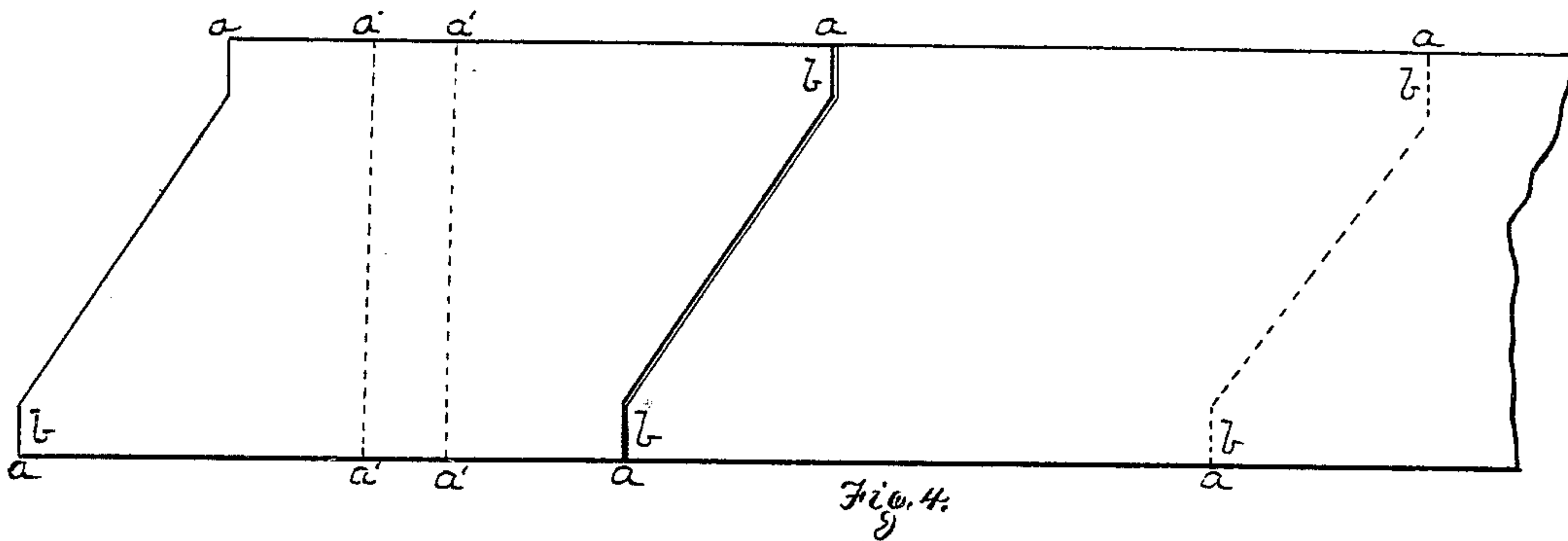
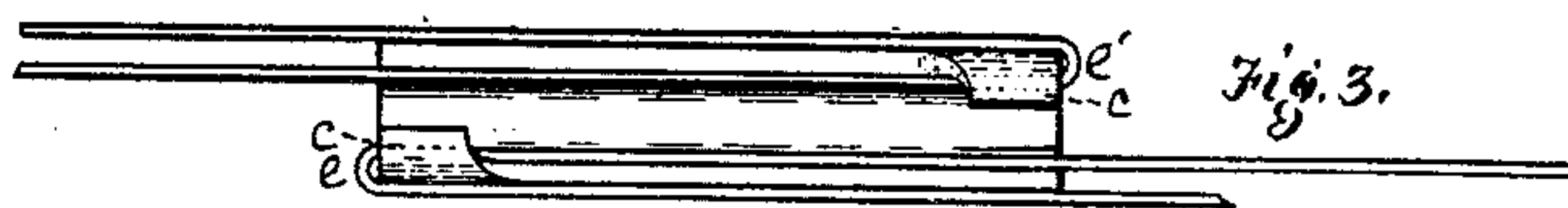
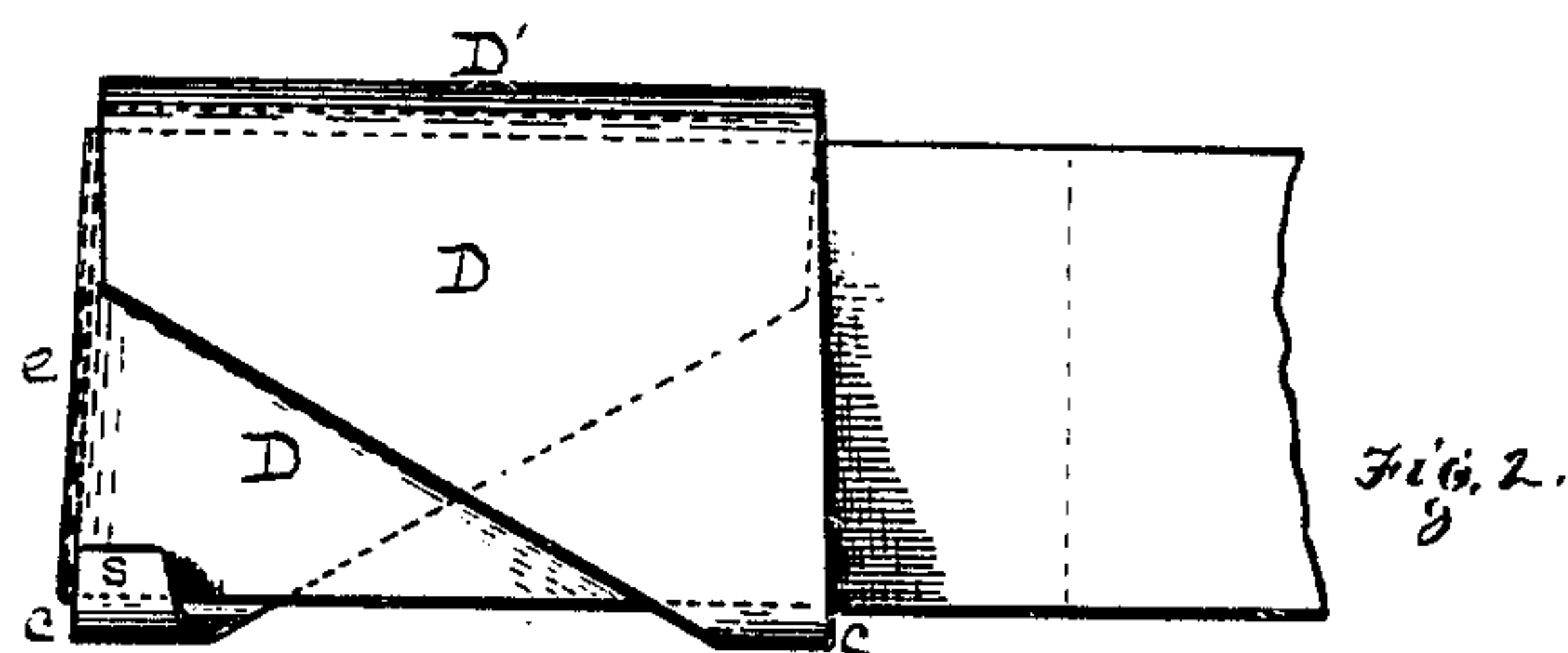
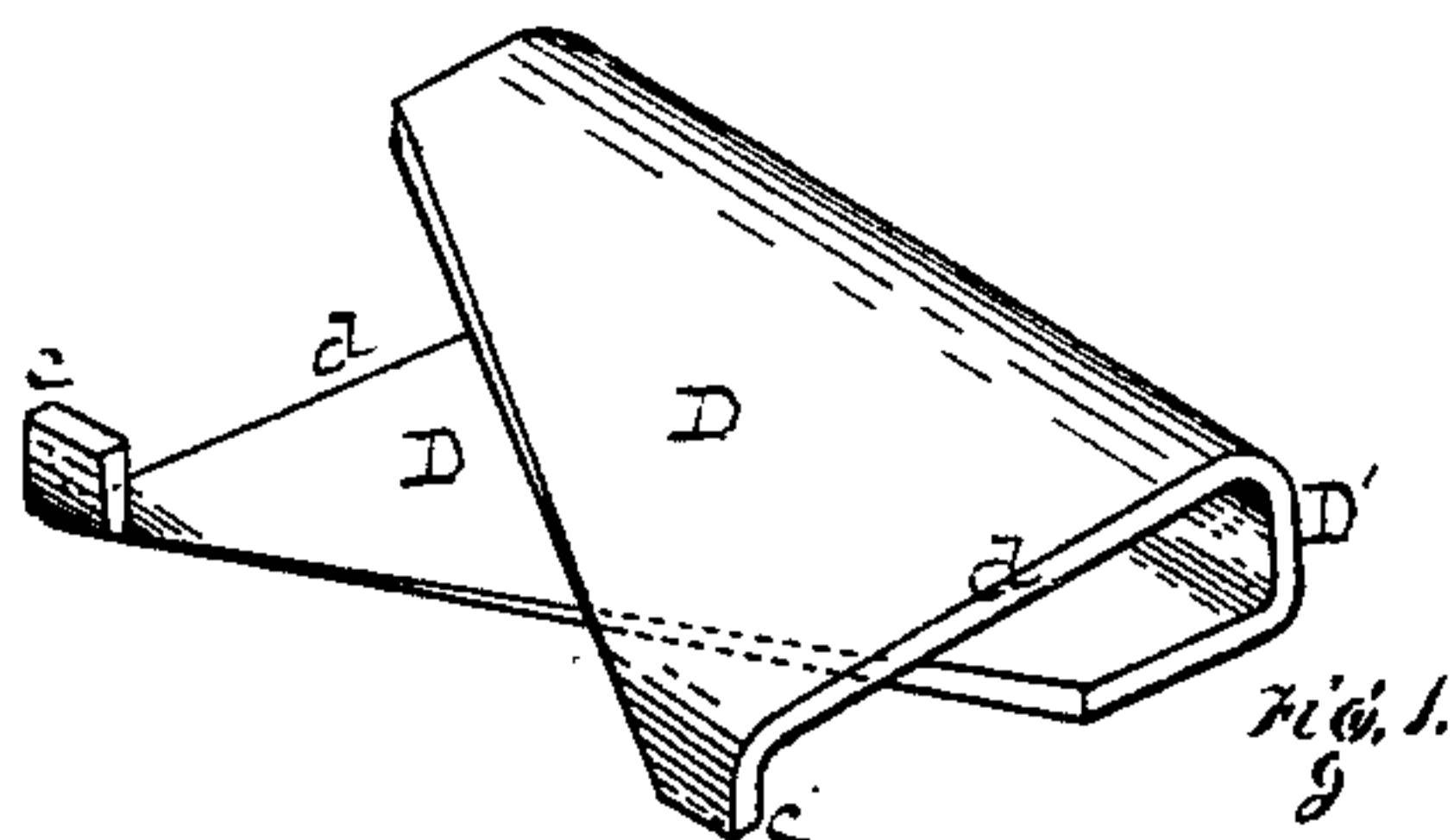


J. N. LAUTH.  
COTTON BALE-TIE.

No. 188,742.

Patented March 27, 1877.



Witnesses.

C. L. Parker  
Geo. S. Kennedy

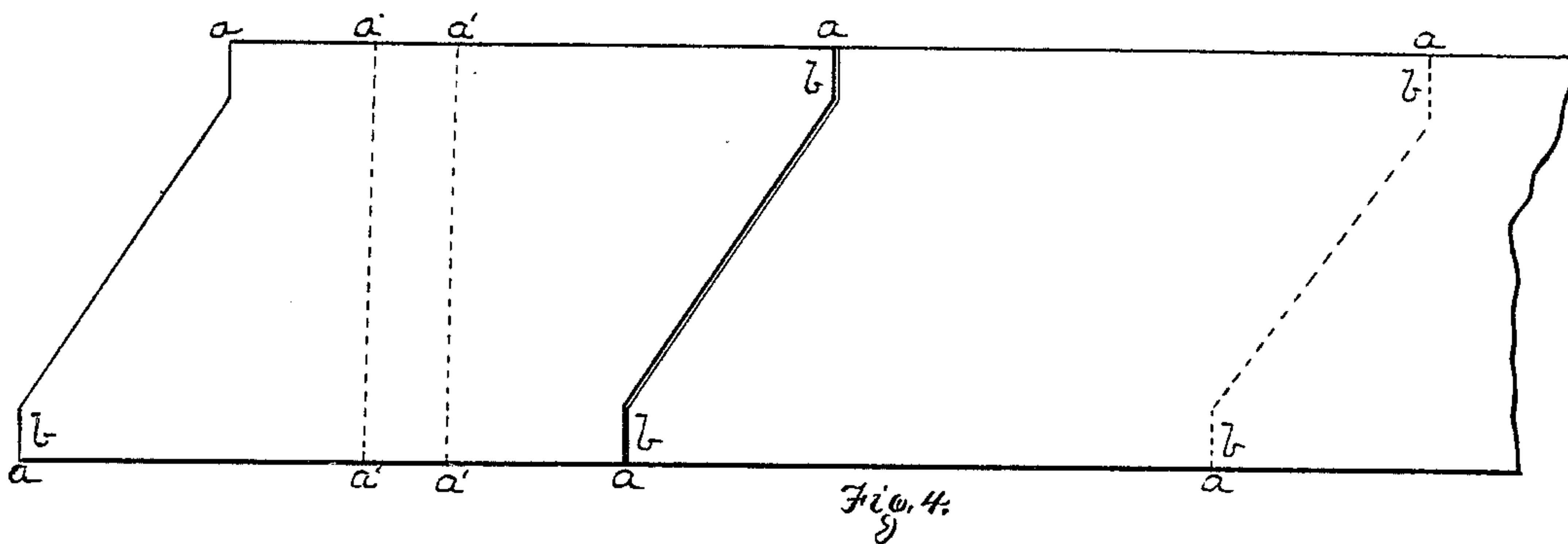
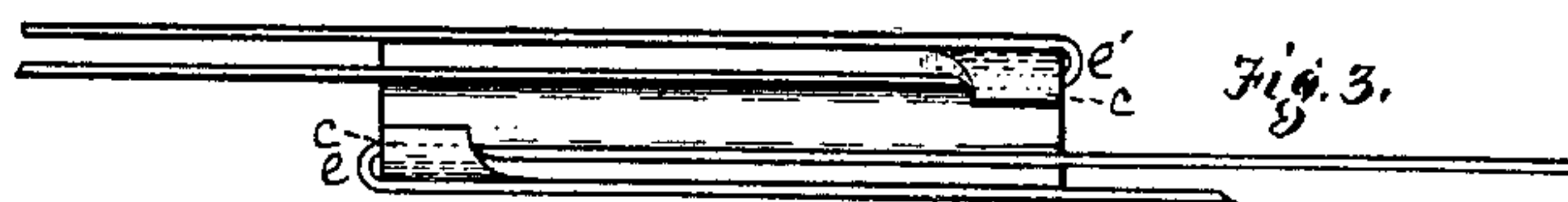
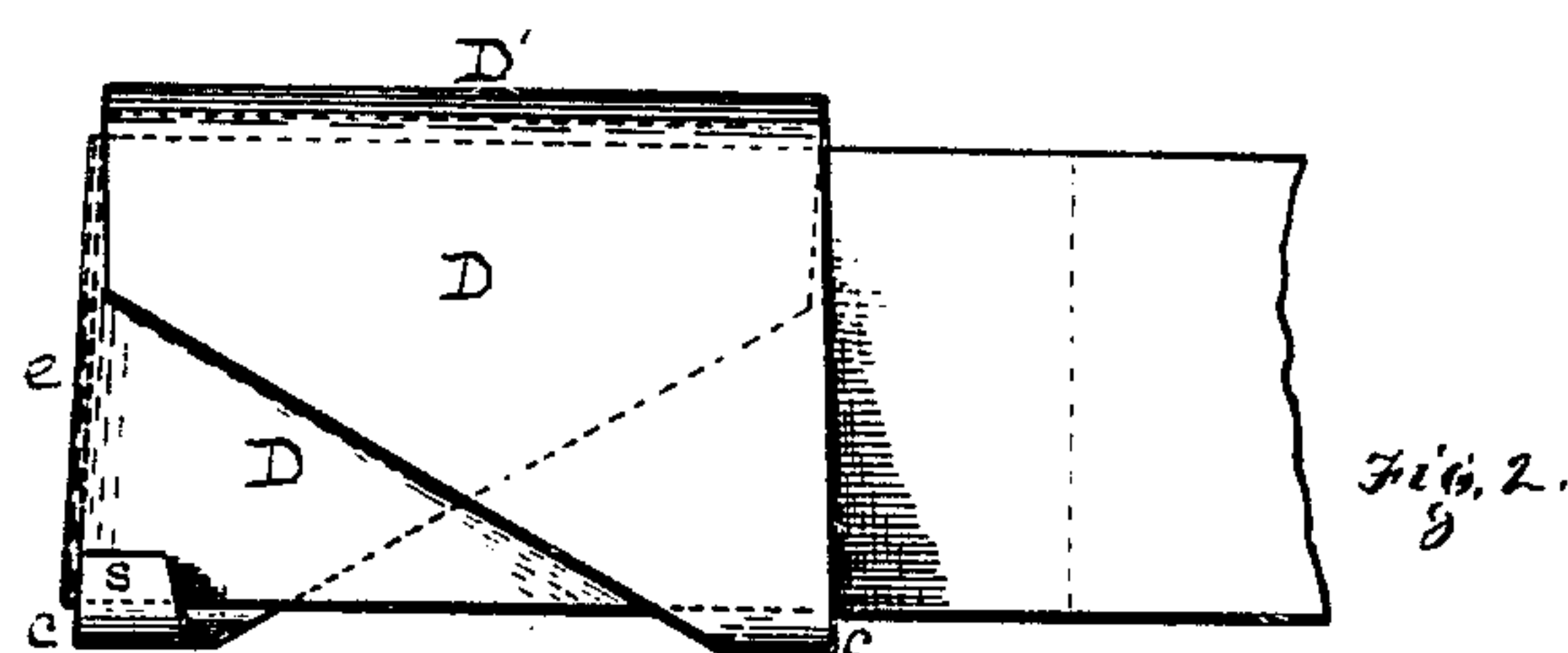
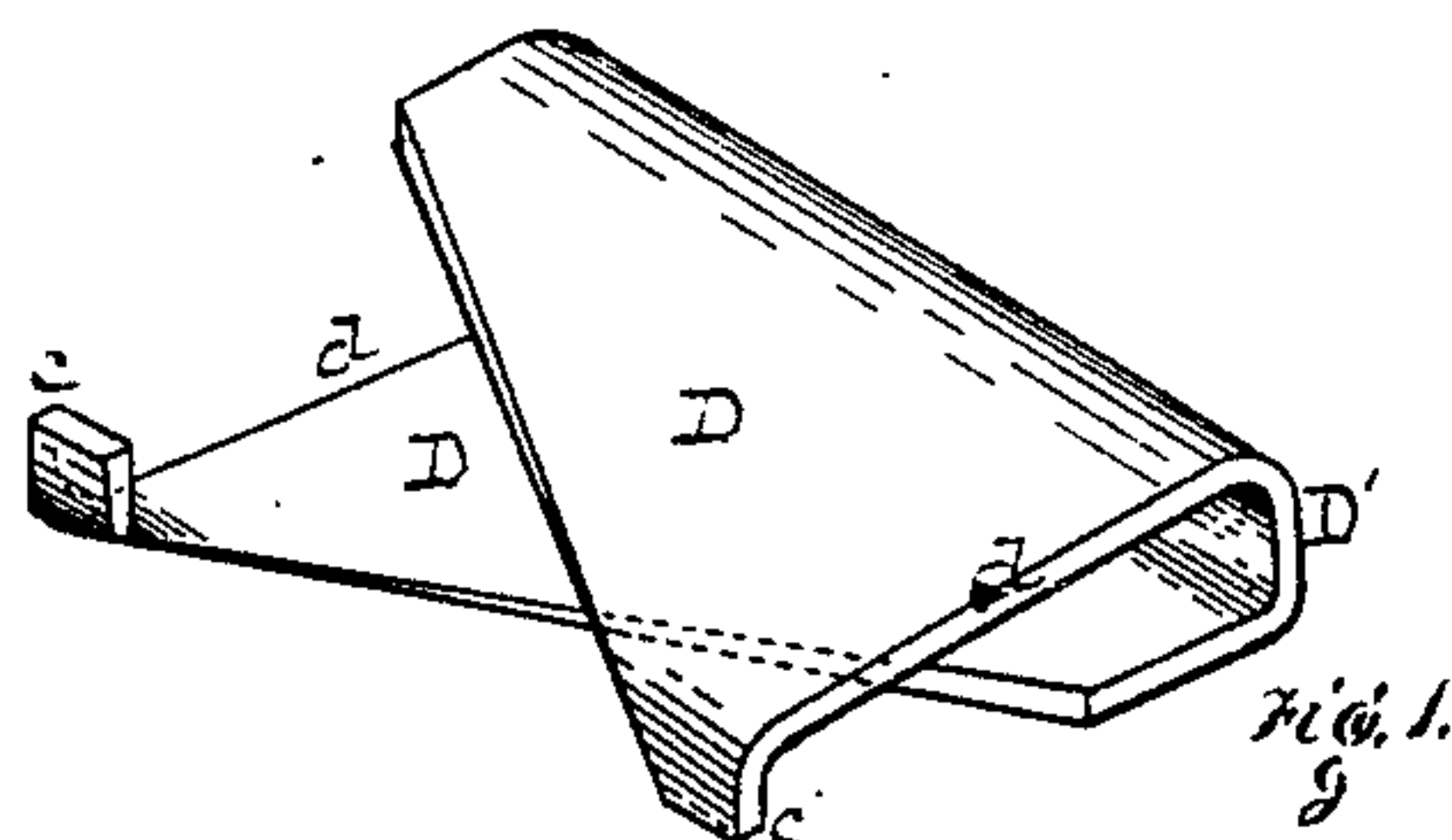
Inventor.

John N. Lauth,  
by George H. Christy  
his Atty.

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# UNITED STATES PATENT OFFICE.

JOHN N. LAUTH, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. 188,742, dated March 27, 1877; application filed February 3, 1877.

*To all whom it may concern:*

Be it known that I, JOHN N. LAUTH, of Pittsburg, county of Allegheny, State of Pennsylvania, have invented or discovered a new and useful Improvement in Cotton-Bale Ties; and I do hereby declare the following to be a full, clear, concise, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—like letters indicating like parts—

Figure 1 is a perspective view of my improved buckle. Fig. 2 is a plan view thereof, showing it attached to one end of the hoop or strap. Fig. 3 is an edge view, showing both straps in place; and Fig. 4 shows the division of a bar into blanks.

Starting with a bar of the proper width and thickness, I divide it into blanks, substantially as represented in Fig. 4, *a a* representing the line of cut. The corners *b b* are bent so as to give the lugs *c c*, and then the body is bent in the lines *a' a'*, so as to give a product substantially as represented in Fig. 1. The buckle thus made consists of two triangular-shaped parts, *D D*, united on one side by a bow, *D'*, each part having a bearing-edge, *d*, for the strap, and a turned-up lug, *c*, at the outer extremity of each bearing-edge to prevent the loop of the strap from slipping off; and as a further means to the same end I make the bends represented by the lines *a' a'* not exactly at right angles to the edges of the blank, but inclined slightly, so that, after the bending is done, the bearing-edges *d d* will not be parallel, but at their outer or open ends will be a little farther apart than at their ends next the bow *D'*; or in other words, will slope back toward the bow *D'*, as a result of which the loops *e e'* will have a little draft backward toward the bow, and be less liable to slip off. To secure the buckle permanently to one end of the strap I make another bend in one of the lugs *c*, as shown at *s*, so that such additional bend shall be parallel, or nearly so, with the parts *D*. One end of the

hoop is then slipped through endwise under *s*, and the end bent back and under. The buckle cannot then come off. After the hoop is passed around the bale and the proper length ascertained, the loop *e'* is bent with the free end under, and is slipped sidewise over the other half of the buckle, and the fastening is then complete.

While I consider the way described to be the best for making the buckle, it may be cast to substantially the same form of malleable iron.

I am aware that it is not new to make a buckle by cutting a bar directly across into rectangular blanks, bending the same into a *U* form, and bending a lug along each outer end of the *U*, and hence I make no claim thereto. By cutting the blanks obliquely in the manner herein described, I produce a buckle equally strong, of less weight, and save a considerable amount of otherwise waste material.

I claim herein as my invention—

1. A bale-tie buckle, consisting of the bow *D'* and triangular parts *D D*, lying in parallel planes opposite to each other, and having each a bearing-edge for engaging the hoop, and a turned-up lug, *c*, at the outer extremity of each bearing-edge, substantially as set forth.

2. A bale-tie buckle having the bow *D'* and triangular parts *D D*, each with a bearing-edge for engaging the hoop, and one having at its outer end the bends *c s*, substantially as set forth.

3. The bale-tie buckle described, having two independent bearing-edges, *d d*, in different planes, each made sloping from the open to the closed side of the buckle, substantially as set forth.

In testimony whereof I have hereunto set my hand.

JOHN N. LAUTH.

Witnesses:

J. J. SHAFFER,  
WM. N. TAYLOR.