

A. A. GOLDSMITH.
Bale-Ties.

No. 155,867.

Patented Oct. 13, 1874.

Fig 1

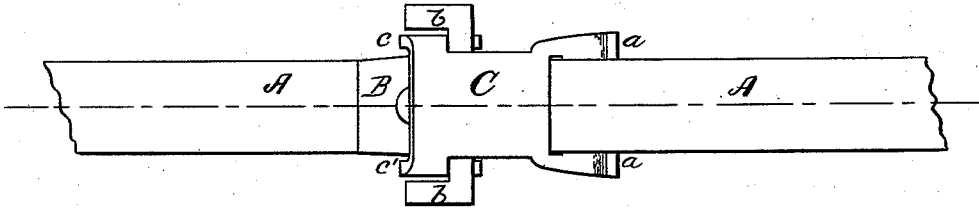


Fig 2



Fig 3

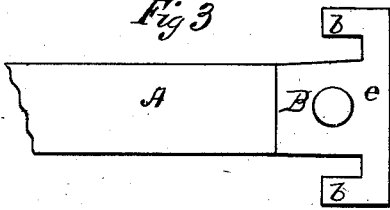
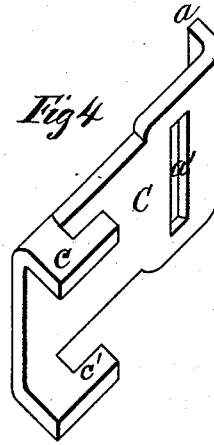


Fig 4



WITNESSES

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UNITED STATES PATENT OFFICE.

ABRAHAM A. GOLDSMITH, OF CHARLESTON, SOUTH CAROLINA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **155,867**, dated October 13, 1874; application filed September 12, 1874.

To all whom it may concern:

Be it known that I, ABRAHAM A. GOLDSMITH, of Charleston, in the county of Charleston and State of South Carolina, have invented a new and valuable Improvement in Bale-Ties; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my bale-tie. Fig. 2 is a vertical sectional view of the same. Figs. 3 and 4 are detail views of the same.

This invention has relation to bale-ties wherein the two ends of a binder are firmly united by means of a buckle-plate; and the nature of the invention consists in a T-shaped plate rigidly secured to one end of a binder, in combination with an oblong plate, having lateral hooks to engage with the arms of the T-plate upon one end, and upon the other upwardly-bent end a rectangular slot for the reception of the free end of the said binder, whereby it will be bent obliquely to the line of strain, and a perfect tie effected, when the hooks upon the oblong plate are engaged over the arms of the T-plate, and the binder is passed from above downwardly through the slot, all as will be hereinafter more fully explained.

In the annexed drawings, A designates a bale-tie of strap-iron, to one end of which is rigidly riveted a T-shaped plate, B, having branches *b*, as shown in Fig. 3, and for a purpose yet to be explained. C designates an oblong plate having an upwardly-bent end, *a*, a transverse narrow slot, *a'*, and two lateral hooks, *c c'*, all constructed from a sheet-metal blank by means of a suitable die. These hooks are situated below the body of the plate,

and hence are in an opposite direction to the upwardly-bent end *a* thereof.

I apply my bale-tie as follows, and with the following novel and useful results: A mass of cotton having been reduced by compression to the desired size, the free end of the binder is passed under and around the bale, the same end thereof is then inserted from above downwardly through the slot *a'* of the plate C, the hooks *c c'* of which are then engaged over the cross-head *e* of the T-plate B, between the shank and the branches *b* thereof. If the pressure used for reducing the mass in size be now removed, its expansion will cause the plate C to assume an oblique position, and the binder to be rigidly bent in a position oblique to the direct line of strain over the shoulder *a*, and under the lower surface of the said plate, as shown in dotted lines, Fig. 2, thereby affording three gripping edges which combine to prevent the withdrawal of the binder from the slot, a function which they effectually perform, thus completing a simple and durable tie.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a binder, A, and the T-shaped plate B rigidly secured thereto, of the plate C having lateral hooks *c c'*, a slot, *a'*, and an upwardly-bent end *a*, substantially as specified.

2. The plate C, having hooks *c c'*, a slot, *a'*, and an upwardly-bent end, *a*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ABRAHAM A. GOLDSMITH.

Witnesses:

D. B. DUPONT,
JOHN R. HERIOT.