

B. HEMPSTEAD.

BALE-TIE.

No. 178,771.

Patented June 13, 1876.

Fig. 1

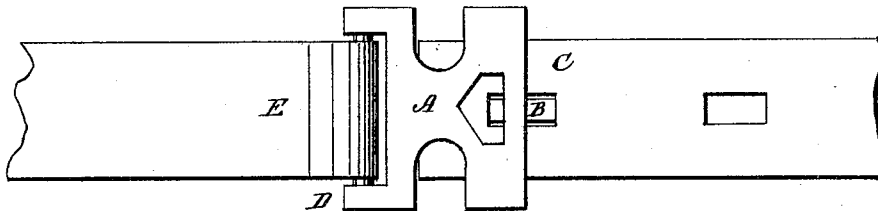


Fig. 2

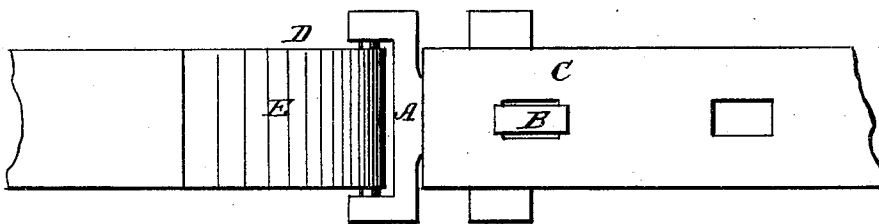
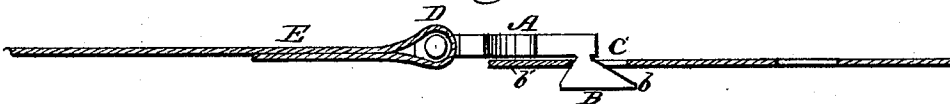


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

BEALL HEMPSTEAD, OF LITTLE ROCK, ARKANSAS.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **178,771**, dated June 13, 1876; application filed May 29, 1876.

To all whom it may concern :

Be it known that I, BEALL HEMPSTEAD, of Little Rock, in the county of Pulaski and State of Arkansas, have invented a new and Improved Cotton-Bale Tie; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a plan view of the bale-band fastener, shown applied to the bale-band; Fig. 2, an inverted plan of the same. Fig. 3 is a longitudinal section.

My invention relates to cotton-bale ties; and it consists in certain improvements in the construction and arrangement of the button forming the fastening of the tie, and in the combination of the tie with the band, whereby is formed a fastening which will resist the spring of the cotton-bale, and which shall be more durable than the riveted button, and at the same time retain the ease of adjustment.

In the drawing, A represents a plate, whose extreme width is greater than that of the band, and at one end of which is located the button B, for forming a fastening with the slot end C of the band. At the other end of the plate there is a transverse slot, D, through which the other end E of the band passes, so that when bent down it firmly secures the tie, and thus completes the band-fastening.

This construction of tie presents a solid base and solidly-formed button, having more durability than the riveted button, and better able to stand a greater strain. The arrangement, also, of its connection with the band serves to hold the plate flat by reason of the traction exerted upon the stiff plate, and obviates the accidental removal of the button from the slot by the springing of the band.

In manner of attaching the tie to the band, this, as previously described, is provided for in the slotted end of the tie, and as the band may readily be passed through, a new tie can be substituted for a broken one when it becomes necessary. In a riveted button this cannot be done, as, when torn off, the band for the time is useless.

In forming a secure fastening I construct the button of the tie with a long extension, *b*,

and a short extension, *b'*, and arrange it to pass into the slot C in such a position that no spring of the bale can extricate it. This insertion may be effected by a slight elevation of one end or side of the tie, while passing the button into the slot, or with the button oblique to the slot, and when the band is pulled flat by expansion of the cotton it forms a fastening which no "give" in the bale can affect.

In the arrangement of the button on the plate I design to have it in any position from that where the axis of the button and that of the plate are in the same straight line to the position where they are at right angles.

The advantages of my invention consist, first, in its durability. The button forming the fastening is solid with the plate, of which it is a part, and as this button may be strengthened by increased length, it can be made to resist any tension which the band is capable of exerting.

Secondly, firmness of fastening. The peculiarity of the button constructed with its base larger than the slot, and extending across it, gives a permanence of fastening which the spring of the cotton-bale cannot affect, since the extrication of the button requires a position of the plate which the tension of the band will never allow it to assume.

Thirdly, from the fact that the button, when in position, extends across the slot, it does not require, in adjustment, any closeness of fit; but the slot may be made so large that the button will pass through without difficulty.

Fourthly, economy of bands. As the tie is attached to the band merely by bending, should the button become broken off at the other end, a new tie may be substituted without losing the band.

Having thus described my invention, what I claim as new is—

1. The bale-tie fastener consisting of a stiff plate, A, having a transverse slot, D, at one end, and a button, B, at the other, provided with a long extension, *b*, and a short extension, *b'*, as and for the purpose described.

2. The bale-tie consisting of the plate A, having transverse slot D and button B, pro-

vided with long extension *b* and short extension *b'*, in combination with the bale-band passed through slot D, and bent around the same at one end, and having a slot, C, at the other, adapted to receive the button, as and for the purpose described.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

BEALL HEMPSTEAD.

Witnesses:

A. BELDING,

SAM. B. ADAMS.