

(No Model.)

D. T. COOPER.

BALE TIE.

No. 263,864.

Patented Sept. 5, 1882.

Fig. 1.

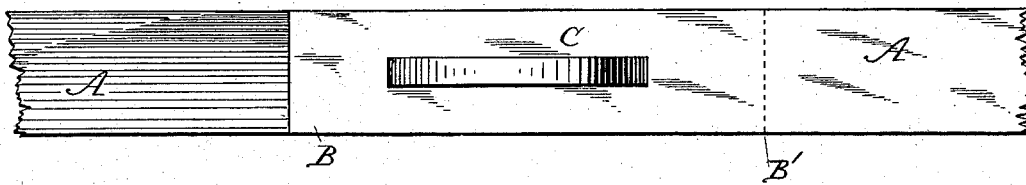


Fig. 2.

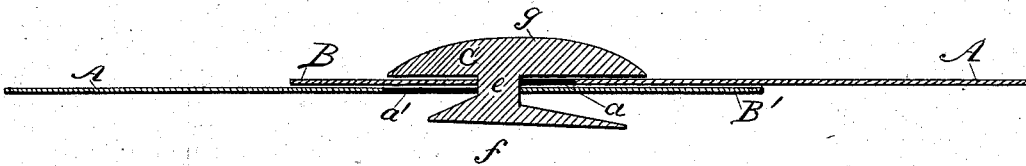
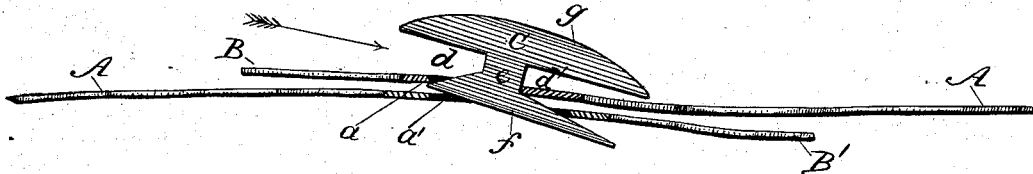


Fig. 3.



WITNESSES:
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DAVID T. COOPER, OF CLINTON, LOUISIANA.

BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 263,864, dated September 5, 1882.

Application filed May 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, DAVID THOMAS COOPER, of Clinton, in the parish of East Feliciana and State of Louisiana, have invented a new and
5 useful Improvement in Bale-Ties, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification.

This invention relates to cotton-bale ties in
10 which a button is made to engage with corresponding slots in the ends of the tie. Such a button has heretofore been formed by means of a plate having rectangular slots cut in opposite ends thereof to form a back, a face, and
15 a shank all in one piece. With the slots thus made of rectangular form—that is, with parallel sides—the ends of the tie must be bent nearly together, which is difficult to do when the tie is around a bale, in order that they
20 shall pass the back of the button in the operation of engaging them with the shank.

To facilitate the insertion of the back into the slots of the tie, I construct the back with its upper surface inclined upward toward the
25 shank, instead of being parallel with the under surface of the face, as heretofore constructed, so that when the point of the long end of the back is made to enter the slot in the under end
30 of the tie the inclined upper surface of the back will cause the button to slip entirely into position by simply pressing on the face of the button.

In the drawings, Figure 1 is a plan view of a portion of a tie, showing my invention. Fig.
35 2 is a vertical section of the same; and Fig. 3 is a side elevation, partly in section, of the same, showing the parts in position for being fastened.

The bale-tie A is provided with slots *a a'* in
40 its ends B B'. The slots *a* in the end B are to be cut six or eight inches apart, beginning at the end and extending about two and one-half feet toward the center of the tie. The

slots *a'* in the end B' are to be made one and one-half inch apart, extending from near the
45 end of the tie toward the center for the distance of two feet.

The fastener or button C is made of a single piece of metal of a thickness to correspond to the width of the slots *a a'*, and is constructed
50 by cutting slots *d d'* in the ends thereof in such manner as to form a shank, *e*, and a back, *f*, under the face *g*. The slots *d d'* are so cut that the under surface of the face will be at right angles to the shank *e*, while the back *f*
55 will be shorter on one side of the shank than on the other, and the upper surface thereof will incline upward toward the shank.

The slots *a* in the tie are to be made of just sufficient length to admit the back of the but-
60 ton, so that when once the latter is in position it will not accidentally become displaced during shipment. The slots *a'* are slightly longer than the former, and in engaging them with the button the longer end of the back *f* is first
65 to be placed therein, and the face is to be prized with the hand to force the said back to pass entirely through the slot. The tension of the tie is thus thrown upon the shank, where it is held by the inclined upper surface of the
70 back.

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

In a bale-tie, the button C, having the slots
75 *d d'* cut in opposite ends to form a back, *f*, having its upper surface inclined from both its points upward toward the shank, substantially as shown and described, whereby the said upper
80 surface of the back shall facilitate the insertion of the button into the slots in the ends of the tie, as set forth.

DAVID THOMAS COOPER.

Witnesses:

ALLEN COOK,
C. A. CRANE.