L. ARNOLD.
Bale-Tie.

No. 204,183. Patented May 28, 1878.

Fig 1.

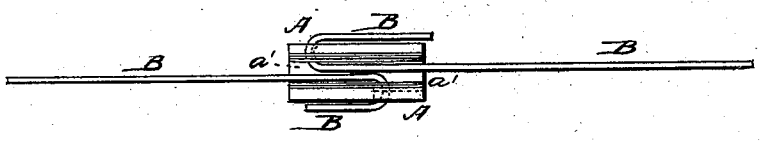


Fig. 2.

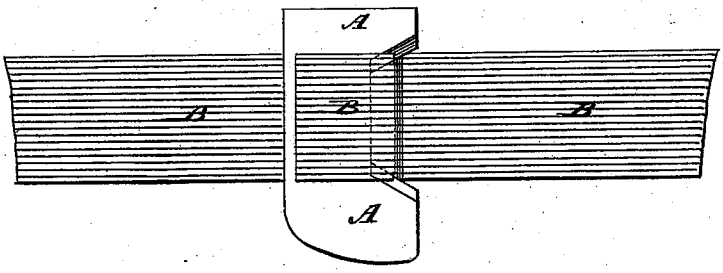
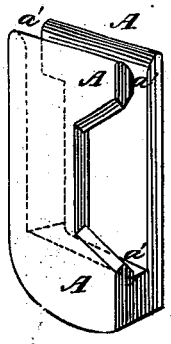


Fig. 3.



WITNESSES:
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UNITED STATES PATENT OFFICE.

LLOYD ARNOLD, OF GALVESTON, TEXAS.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **204,183**, dated May 28, 1878; application filed April 30, 1878.

To all whom it may concern:

Be it known that I, LLOYD ARNOLD, of the city and county of Galveston, and State of Texas, have invented a new and useful Improvement in Bale-Ties, of which the following is a specification:

Figure 1 is an end view of my improved bale-tie, shown with a band applied to it. Fig. 2 is a top view of the same. Fig. 3 is a perspective view of the same detached from the band.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved bale-tie, more especially to be used in connection with cotton, which shall be so constructed as to hold the band from slipping or rending when the pressure is taken off the bale in a press, and which at the same time shall be simple in construction, convenient in use, strong, and durable.

The invention consists in the bale-tie formed of a block of iron, with a space or opening running longitudinally through its breadth from one end nearly to the other, and having the alternate edges of the two plates thus formed notched, the notch of the lower plate being square and of a width equal to or a little greater than the bale-band, and the notch of the upper plate being narrower at its bottom than the bale-band, and with its sides inclined and beveled to an edge, to adapt it to receive and hold the bale-band, as hereinafter fully described.

A represents a block of wrought or cast iron, of such a size as will give it the requisite strength. The block A has a space or opening, *a'*, formed in it longitudinally in the direction of its breadth, and extending from one end nearly to the other end, forming two attached plates.

The alternate side edges of the two plates formed by the space *a'* are notched. The notch of the lower plate is made square, and of a breadth equal to or a little greater than the breadth of the bale-band B. The notch of the upper plate is made narrower at its bottom than the breadth of the bale-band B, and its side edges are inclined and beveled to an edge.

In using the tie A, one end of the band B is passed into and through the space *a'*, and is bent into loop form around the notched edge of the lower plate. The band B is then drawn taut around the bale, and is slipped into the space *a'* edgewise, and is bent into loop form around the notched edge of the upper plate. With this construction, as soon as the pressure is removed from the bale, the strain caused by the expansion of the said bale causes the beveled side edges of the notch in the upper plate to cut into the side edges of the band B at its bend, so that the said band cannot slip or render, however great the strain may be on the band. The outer end of the band B may then be cut off at any desired distance from its bend or fastening-point in the tie or lock.

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

The bale-tie A, formed of a block of iron, with a space or opening longitudinally through its breadth from one end nearly to the other, and having the alternate edges of the two plates thus formed notched, the notch of the lower plate being square and of a width equal to or a little greater than the bale-band, and the notch of the upper plate being narrower at its bottom than the bale-band, and with its sides inclined and beveled to an edge, to adapt it to receive and hold the bale-band, substantially as herein shown and described.

LLOYD ARNOLD.

Witnesses:
A. P. LUFKIN,
L. E. CURTIS.