

H. B. JONES.
Bale-Tie.

No. 161,416.

Patented March 30, 1875.

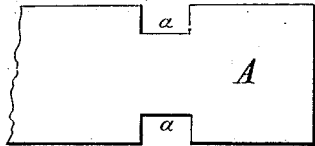


Fig. 1.

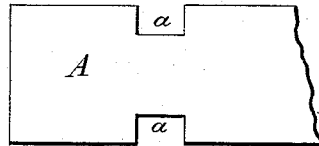


Fig. 2.

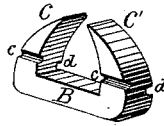


Fig. 3.

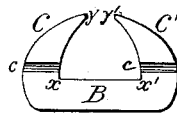


Fig. 4.

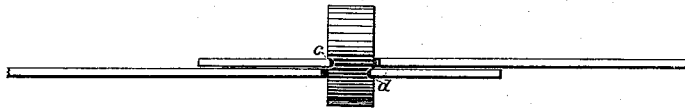
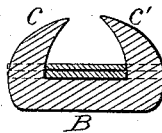


Fig. 5.



Attest:

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Henry B. Jones,
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his atty.

UNITED STATES PATENT OFFICE.

HENRY BRADLEY JONES, OF BURTON, TEXAS.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 161,416, dated March 30, 1875; application filed January 30, 1875.

To all whom it may concern:

Be it known that I, HENRY B. JONES, of Burton, in the county of Washington and State of Texas, have invented certain new and useful Improvements in Cotton-Bale Ties; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents opposite ends of the hoop or band. Fig. 2 is a perspective view of the tie. Fig. 3 is an end view of the tie. Fig. 4 is a side elevation of the ends of band and tie; and Fig. 5 is a transverse vertical section of the ends of band fastened with the tie.

Similar letters of reference indicate corresponding parts in all the figures.

My invention consists in so constructing a buckle-tie that it may be readily applied to the ends of the hoop to be fastened together, substantially as hereinafter set forth.

The ends of the hoop A are slotted or notched, as shown at *a*. The tie, which may be made of cast-iron or any other suitable material, consists of the bar or base B and the two curved projections or horns, C C'. The length of the bar B, between the inside curved walls or faces of the two projections C C', is slightly in excess of the width of the narrow parts of the notched ends of the band, which may therefore be readily encompassed between C and C'; and the inside walls or faces of these projections are curved in such a manner that if the curve was continued all the way round they would, respectively, form the sides of a cylinder having its axis in the opposite corner. In other words, the curve from *x* to *y*, Fig. 3, is the segment of a circle having its center at *x'*, and the opposite curve, from *x'* to *y'*, is the segment of a circle having its center at *x*. As the radius of this circle exceeds in length the width of the band from the notch on one side to the corresponding notch on the other side, it will be readily seen that after the opposite

ends of the band to be fastened together have been placed one upon the other and brought to register, the tie is easily applied by inserting it sidewise into the notches on one side, and then turning it so as to insert the other horn into the corresponding notches on the other side until the bar or base B is flush with the band, as shown in Fig. 5.

To prevent the tie from unlocking I cut two grooves across the projections C and C', and parallel to the bar B, one on each end of tie, as shown by *c d* on the drawing. When the hoop tightens on account of the expansion of the bale after compression, the sides of the notches which engage with the tie will enter into these grooves, as shown in Fig. 4, and accidental unlocking by the slipping out of the tie is thus effectually prevented. The notches in the band should be sufficiently wide to admit of the easy insertion of the tie.

The configuration of this tie is such as to make it possible to manufacture it at a very small cost. It may either be cast in molds of the shape of the finished tie, or the ties may be cut from a bar, cast, or rolled, of a transverse section, as shown in Fig. 3. When the latter method is employed the grooves *c d* may be made afterward by filing, pressing, or other suitable means.

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

1. As a new article of manufacture, the buckle herein described, consisting of the base or bar B and the two projecting horns C C', curving toward each other from said base, substantially as and for the purpose specified.

2. The combination of the buckle herein described with a band or hoop, A, notched in the manner shown, as and for the purpose specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

HENRY BRADLEY JONES.

Witnesses:

W. C. BROESCHE,
H. DIERKE.