J. R. BLOSSOM.

Bale-Tie.

No. 200,428. Patented Feb. 19, 1878.

Fig. 1.

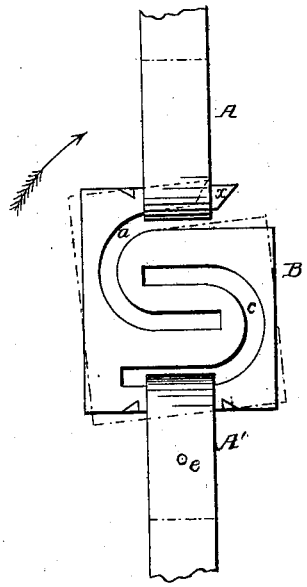


Fig. 2.

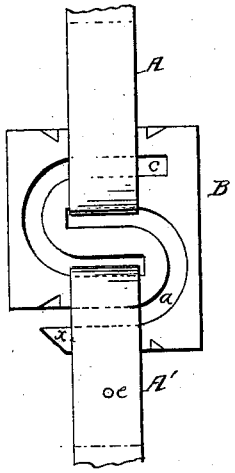


Fig. 3.

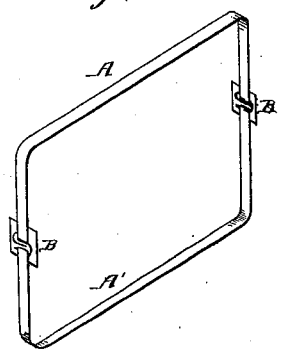
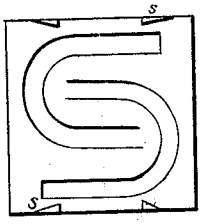


Fig. 4.



Attest:

Fred Benjamin.

C. A. Welch

Inventor

J. R. Blossom

By his attorney

Charles E. Foster

UNITED STATES PATENT OFFICE.

JOSEPH R. BLOSSOM, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **200,428**, dated February 19, 1878; application filed January 19, 1878.

To all whom it may concern:

Be it known that I, JOSEPH R. BLOSSOM, of the city of Brooklyn, State of New York, have invented an Improved Bale-Tie, of which the following is a specification:

My invention consists in reducing the expansion of a bale after compressing by preventing the distension of the hoops, and in certain novel fasteners which I employ in effecting this result.

In the accompanying drawings, Figure 1 represents a portion of the band and my fastener or buckle in position before tightening; Fig. 2, the same, showing the fastener or buckle after it has been turned laterally and has drawn the loops toward each other; Fig. 3, a perspective view; and Fig. 4, a modification.

A represents one end or portion of a bale hoop or band, and A′ the other, B being the fastener, which, as shown in Figs. 1 and 2, consists of a metal plate, having two U-shaped slots, *a c*, the arm of one extending between those of the other, as shown.

One end or portion, A, of the hoop is bent into a loop, passed through the slot *c*, and, if desired, secured by a rivet, *e*, and a similar fastening may be secured to the opposite end of the portion A′, as shown in Fig. 3; or the hoop may be continued entirely round the bale to form the end A′. The hoop being round the bale and tightened, the end A′ is formed into a loop, and the fastener is turned to introduce the tongue X into the loop and carry the latter into the slot *a;* or the slot *a* may be closed at the end, in which case the end of the hoop is passed through and bent over to form the loop, as shown in Fig. 4.

The parts are now in the position shown in Fig. 1, when the hoop may be further tightened by turning the fastening B one-half of a revolution in the direction of the arrow, Fig. 1, thereby bringing the ends of the hoop to the inner ends of the slots, Fig. 2, the edges of the slots having a cam-like action, drawing together the ends and contracting the dimensions of the hoop, pressing it more tightly to the bale, and limiting the distension when the pressure is removed.

It will be apparent that the shape and arrangement of the contracting edges may be modified—arms having edges of S shape or other form being used, as shown in Fig. 4, or any other suitable equivalent structure being used presenting edges that will draw toward each other the ends of the band as the fastening is turned; and I may provide the fastening with one or more lugs, *s*, over which the loops slip in turning the fastening, the abrupt inner edges, however, bearing against the side of the hoop after adjustment, and preventing the fastening from turning back.

While the ordinary hoop, consisting of a single band, may be used, I have discovered that a hoop consisting of two pieces, A A′, and two fastenings, B B, overcomes very serious objections to the ordinary hoop, which cannot be so drawn between the bale and platen as to take up all the slack on the side of the bale opposite the usual fastening; whereas by my improved hoop and two fasteners I can secure any degree of tension on bands on both sides of the bale, thus preventing so much expansion of the latter as results from the use of a continuous hoop.

I claim—

1. As an improvement in the process of baling with hoops in two sections applied to the bale, connecting the same at opposite sides of the bale by the fastening devices, and drawing up the slack by adjusting said devices, as set forth.

2. A bale-tie fastening with which the ends of the hoop are connected, constructed as described, to draw together the ends of the band when the fastening is turned laterally, as set forth.

3. A bale-tie fastening having edges with which the loops engage, constructed and arranged substantially as described, whereby the ends of the hoop are drawn nearer together by laterally turning the fastening when engaged with the loops, as set forth.

4. A laterally-turning fastening provided with lugs *s*, as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH R. BLOSSOM.

Witnesses:

CHARLES E. FOSTER,

FRED. BENJAMIN.