W. M. SEAMAN.

Bale-Tie.

No. 197,802. Patented Dec. 4, 1877.

Fig. 1.

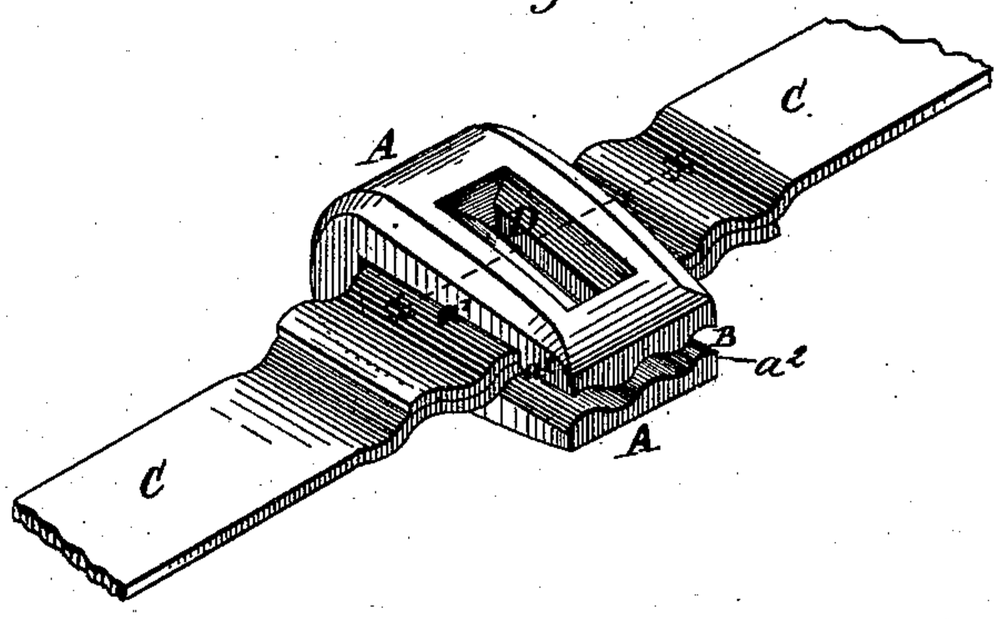
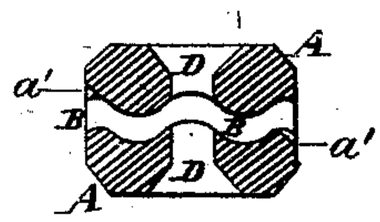


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM M. SEAMAN, OF BULLITT'S BAYOU, LOUISIANA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **197,802,** dated December 4, 1877; application filed November 8, 1877.

To all whom it may concern:

Be it known that I, WILLIAM M. SEAMAN, of Bullitt's Bayou, in the parish of Concordia and State of Louisiana, have invented a new and Improved Bale-Tie, of which the following is a specification:

The object of my invention is to provide a cheap, strong, and easily-adjusted tie for cotton-bales, and for other purposes.

The invention consists in the construction and combination of a U-shaped buckle, corrugated lengthwise on the inside, and a metallic strap or band, the ends of which are corrugated crosswise, for the purpose of being held from slipping when placed to overlap each other, and inserted to fit in the opening between the corrugated inner sides of the buckle.

In the accompanying drawings, Figure 1 is a perspective view of my bale-tie complete, the bands being inserted. Fig. 2 is a cross-section of the buckle, taken on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the buckle, made somewhat in the shape of the letter U, and, for the sake of strength, thicker at the close end, with the opening B of sufficient height to receive two thicknesses of the bale band or strap C. The two sides of the opening B are corrugated in such a manner that a concavity in one side is always directly opposite a convexity on the other, so that their profiles form parallel curves, as seen in Fig. 2. The ends of the band C are provided with corrugations of the same size and shape as those of the buckle A, so that when both are inserted to overlap each other in the buckle their corrugations will fit sufficiently tight together, and in those of the opening B, to prevent their being straightened by the strain on the band C, and slipping out of the buckle A. The strain in the direction of the bands when in use is sufficient to prevent them, under ordinary circumstances, from slipping out laterally—that is, in a direction at right angles to the line of strain; but to guard against such result of an accidental side strain, I make a notch, a^1, in the buckle A, of the width of the band C, at the upper and lower diagonally opposite corners of the opening B, in the edge of the buckle opposite to that from which the strain is applied, thereby forming the shoulders a^2, against which the band C, having been strained into the notch a trifle, with the nearest convex portion of its corrugations, will lodge, and thus be kept in place. D is a hole cut clear through the buckle A, at right angles to the plane of the opening B, for the purpose of securing the buckle in transportation.

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

1. For a bale-tie, the U-shaped buckle A, corrugated on the inside to receive the bent or corrugated ends of the band C, substantially as and for the purpose specified.

2. The notches a^1 in the buckle A, made at diagonally-opposite edges of the opening B, in combination with its corrugations, substantially as and for the purpose set forth.

WILLIAM METCALFE SEAMAN.

Witnesses:

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