(Model.)

J. F. McLAUGHLIN.

Bale Ties.

No. 230,313. Patented July 20, 1880.

Fig: 1.

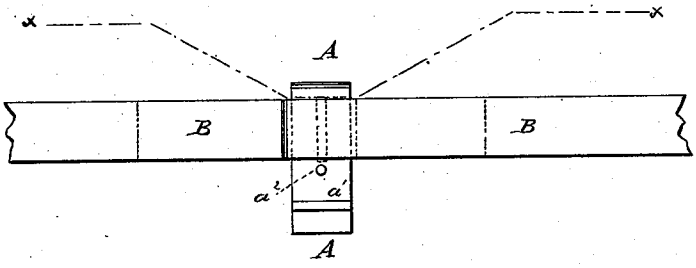


Fig: 2.

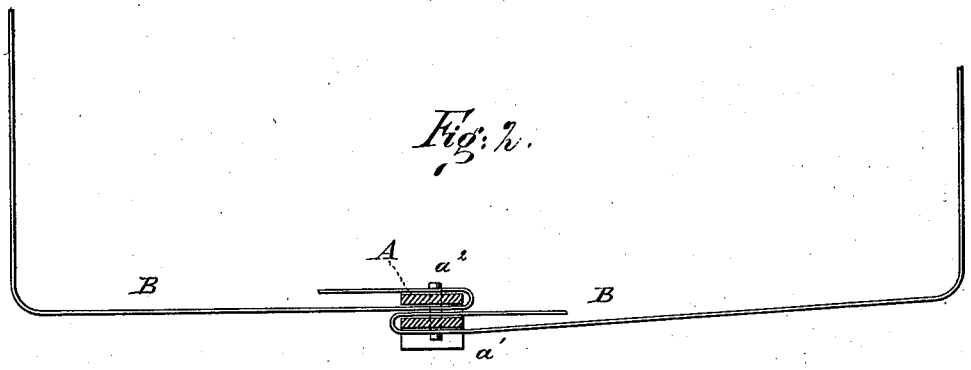
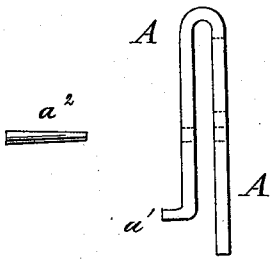


Fig: 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN F. McLAUGHLIN, OF AIKEN, SOUTH CAROLINA.

BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 230,313, dated July 20, 1880.

Application filed May 18, 1880. (Model.)

To all whom it may concern:

Be it known that I, JOHN FRANCIS McLAUGHLIN, of Aiken, in the county of Aiken and State of South Carolina, have invented a new and Improved Bale-Tie, of which the following is a specification.

Figure 1 is a front view of my improved bale-tie. Fig. 2 is a detail section of the same, taken through the line x x, Fig. 1. Fig. 3 is an edge view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved bale-tie which shall be simple in construction, strong, durable, and reliable in use, holding the band securely, and which at the same time shall be so constructed that the bands may be taken off without cutting or breaking the bands or ties.

The invention consists in the tie made in U form, having the end of its outer arm bent outward at right angles and having a hole formed through its two arms to receive the pin, screw, or wire to adapt it to be applied to the looped ends of a bale-band, as hereinafter fully described.

A is the tie, which is made of a bar of iron of such a thickness and breadth as will give it the requisite strength, and which is cut into suitable lengths and bent into V or loop form; or the tie A may be cast, if desired. The end a' of the outer arm of the loop A is bent outward at right angles, as shown in Figs. 1, 2, and 3.

In the arms of the loop or tie A, at a distance from its bend equal to or a little greater than the breadth of the band B, is formed a hole to receive a pin or screw, a^2, as shown in Figs. 1, 2, and 3.

In applying the tie the two ends of the band B are bent back upon themselves inward, forming loops, and the arms of the tie A are passed through the loops or bends of the said band, as shown in Fig. 2. The pin a^2 is then driven through the holes in the arms of the tie A, or the pin a^2 may be driven in before the looped ends of the band B are applied to the tie A.

With this construction the ends of the band B will be pressed against the body of the bale, and will thus be kept from drawing out, while the pin a^2 and the flange a' will keep the loops of the said band from slipping out of the end of the tie A when the said band is under tension.

If desired, the pin or screw a^2 may be replaced by a wire passed through the holes in the arms of the tie A and bent one or more times around the said arms.

If desired, a slot may be formed in the inner or straight arm of the tie A, so that the loop of the band B can be passed through the said slot.

This construction allows the tie and band to be permanently connected by the manufacturer or user before the bands are to be used. In this case the pin a^2 need not be used.

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

The tie A, made in U form, having the end a' of its outer arm bent outward at right angles, and having a hole formed through its arms to receive the pin, screw, or wire a^2, substantially as herein shown and described, to adapt it to be applied to the looped ends of a bale-band, B, as set forth.

JOHN FRANCIS McLAUGHLIN.

Witnesses:

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DANIEL S. HENDERSON.