J. M. GOLDSMITH.

Bale-Tie.

No. 198,603. Patented Dec. 25, 1877.

Fig. 1.

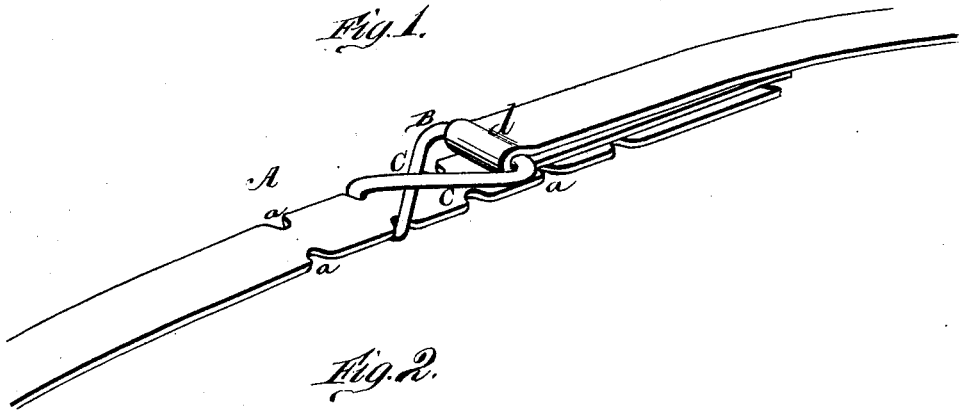


Fig. 2.

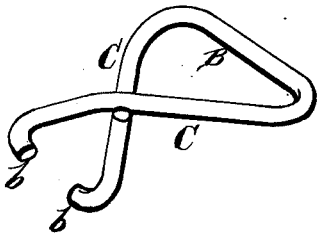
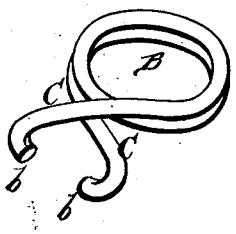


Fig. 3.



WITNESSES

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J. MORTIMER GOLDSMITH, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **198,603**, dated December 25, 1877; application filed December 1, 1877.

To all whom it may concern:

Be it known that I, J. MORTIMER GOLDSMITH, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and valuable Improvement in Bale-Ties; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my bale-tie. Fig. 2 is a perspective view of the hooked arms, and Fig. 3 is a perspective view of a modification of the same.

My invention relates to bale-ties; and it consists in a bale-tie fastening device constructed of a single piece of spring-wire, bent to form a center loop, and two hooked arms, crossing each other, in combination with a bale-band having at one end a series of notches in each edge, all as hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

A represents the bale-band, made of hoop-iron or other suitable similar material. At one end of this band, in each edge, is cut a series of notches, *a a*, which may be of any suitable form, and should be arranged so as to correspond with each other on the two edges of the band.

The bale-tie fastening device is made of a single piece of wire or rod, bent in the center to form a loop, B, and two arms, C C, which cross each other, and have inwardly-projecting hooks *b b* at their extremities.

The loop B in the center of the tie may be made single, as shown in Figs. 1 and 2, or it may be coiled to form a spring, as shown in Fig. 3. The unnotched end of the hoop or bale-band A is attached, all ready for use, by turning the same through the loop B of the tie and bending it back, and forming the hoop over the wire into a round loop at *d*, of a size sufficient to allow a full and easy play of the tie in said round loop *d*. This end of the hoop may be riveted or not, as desired.

The hooked arms C C of the buckle or tie fall over and into the notches *a* by compressing the loop B, and said hooked arms then hold themselves in place. When the expansion or strain on the iron takes place it will hold harder and firmer, and the greater the strain the greater the hold, for the reason that, the tie being a spring, the shoulders or hooks *b b* will clinch firmer the edges of the band in the notches *a*.

What I claim as new, and desire to secure by Letters Patent, is—

A bale-tie fastener constructed of a single piece of spring-wire, bent to form a loop, and two hooked arms, in combination with a bale-band, one end of which is notched on its edges and the other end fastened to the tie-fastener, substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

J. MORTIMER GOLDSMITH.

Witnesses:

J. S. ENGLISH,

WM. P. HARDING.