J. M. VAN DERZEE.

Bale-Tie.

No. 211,443. Patented Jan. 14, 1879.

Fig. 1.

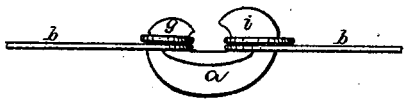


Fig. 2.

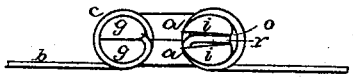


Fig. 3.

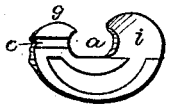
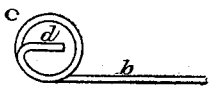


Fig. 4



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN M. VAN DERZEE, OF NEW BALTIMORE, NEW YORK.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **211,443**, dated January 14, 1879; application filed November 2, 1878.

To all whom it may concern:

Be it known that I, JOHN M. VAN DERZEE, of New Baltimore, in the county of Greene and State of New York, have invented certain new and useful Improvements in Bale-Ties; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in cotton-bale ties; and it consists in making the fastening in two parts, which are held together at one end by one end of the wire, while the other end has a groove made in it, and is so shaped that the other end of the wire passes down over it, and the end itself, which is bent across the circle, fits in the groove of the fastening, as will be more fully described hereinafter.

Figure 1 is a side view of the fastening. Fig. 2 is a plan view, and Fig. 4 is a plan view of one end of the loop. Fig. 3 is a perspective of one half of the fastening.

a a represent the two parts which form the fastening, and which are shaped like a letter **C**. Each of these parts is entirely separate, and the two are held together by one end of the wire *b*, which has a loop, *c*, formed in it, and then the end *d* is turned backward right across the center of the circle.

In the inner edge of each part *a* is formed a groove, *e*, in which the end *d* fits, while the loop *c* passes around the ends *g* and holds them tightly together. The other ends, *i*, of the parts *a* have their inner sides cut away enough to form a groove, *o*, down into which the straight end *r* of the other end of the wire fits. Both ends of the wire have a loop upon them, and the end turned back across the center of the loop, and while one end of the wire is fastened permanently to the fastening the other end can be passed down over the grooved end of the fastening and removed at pleasure.

The greater the strain upon the wire the more tightly do the ends draw around the ends of the castings and hold them securely together.

By making the fastening in two parts I avoid all twisting, clinching, and hammering the wire, which only weakens it, and very frequently causes it to break in those places.

Owing to the shape of the parts, two or three hundred bands can be put together and form a round bundle, which is easily handled, and prevents tangling or the loops being bent shut by being stepped on. A bundle of my wire bands can be hung on a peg on the side of the press, always ready for use, and without being in the way.

This invention is especially adapted for baling hay.

Having thus described my invention, I claim—

1. A fastening for a band for bales, composed of two parts, which are secured together by one end of the band or wire, substantially as shown.

2. A fastening for bale bands or wires, composed of two parts, one end of which is provided with a groove, *e*, and the other with a recess, *o*, in combination with a wire, *b*, having a loop and turned-back end at each of its extremities, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of October, 1878.

JOHN M. VAN DERZEE.

Witnesses:

FRANK M. CRANDELL,

EUGENE VANDERZEE.