

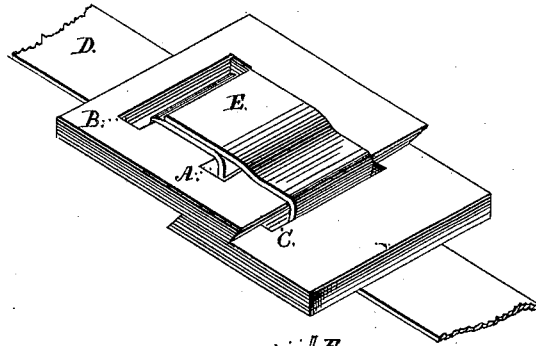
J. A. DICKINSON.

Bale-Tie.

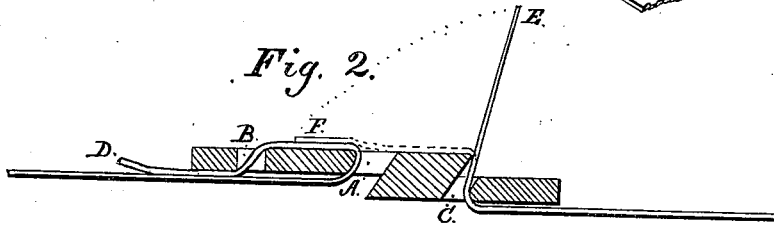
No. 211,713.

Patented Jan. 28, 1879.

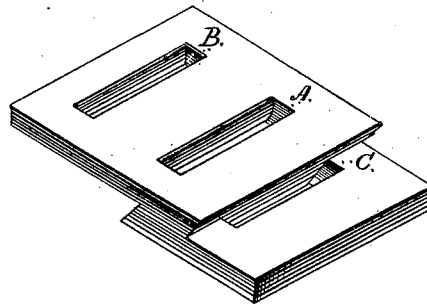
*Fig. 1*



*Fig. 2.*



*Fig. 3.*



Witnesses.  
*H. A. Toulmin*  
*J. J. McCarthy*

Inventor.  
*John A. Dickinson*  
*per Morton Toulmin atty.*

# UNITED STATES PATENT OFFICE.

JOHN A. DICKINSON, OF MOBILE, ALABAMA.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **211,713**, dated January 28, 1879; application filed July 3, 1878.

*To all whom it may concern:*

Be it known that I, JOHN A. DICKINSON, of the city of Mobile, in the county of Mobile and State of Alabama, have invented a new and useful Improvement in Cotton-Ties, of which the following is a specification, together with accompanying drawings, making a part of the same.

The nature of my invention consists in providing an iron tie or fastening in the shape of a flat letter **Z**, with holes cut in the horizontal part to receive the band. The hole which fastens the band is cut in an angle of sixty degrees, so that if the band is put from underneath all the slack can be taken out with great facility by pulling up in a vertical direction; but as soon as the bale expands, stretching the band in a horizontal direction, the peculiar form of the tie will bend or clinch the band, so as to fasten itself, not allowing the same to slip back, and having a great advantage over all other ties, which depend on the upward pressure of the bale to hold the band in its place.

Figure 1 is a perspective view of the tie, showing the band inserted. Fig. 2 is a sectional view of the same. Fig. 3 is an upper perspective view of the tie.

The manner in which the tie is used is as follows: One end of the band **D** is put through the hole **A** from underneath, and by pulling up in a vertical direction all slack is taken out of the band. After the bale has expanded, the end **E** is brought or bent over to **F**, as shown by the dotted lines.

What I claim is—

A bale-tie having its edge in the form of the letter **Z**, and provided with three slots, **B A C**, the slots **A** and **C** being cut parallel to each other and at an angle of sixty degrees, as shown and described, and for the purposes set forth.

JOHN A. DICKINSON.

Witnesses:

GEORGE STOUT,  
FREMONT THROWER.