J. JOHNSON.

Bale-Tie.

No. 211,331. Patented Jan. 14, 1879.

FIG. 1.

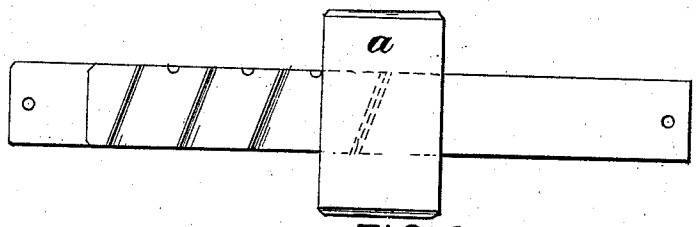


FIG. 2.

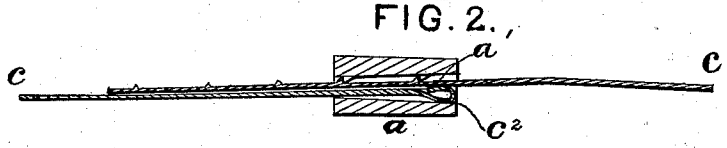


FIG. 4

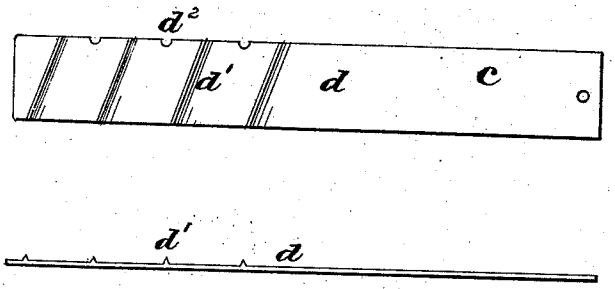
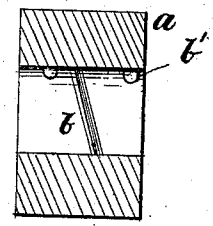


FIG. 3.



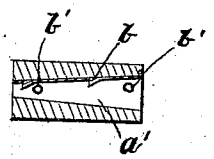
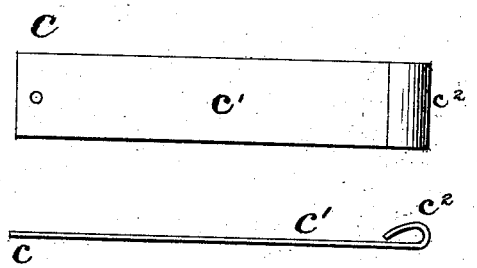


FIG. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

JORDAN JOHNSON, OF HOPE, TEXAS.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **211,331**, dated January 14, 1879; application filed October 14, 1878.

To all whom it may concern:

Be it known that I, JORDAN JOHNSON, of Hope, in the county of Lavaca and State of Texas, have invented certain new and useful Improvements in Bale-Ties; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention has for its object to furnish a substantial tie, cheap and easy to apply to the band and bale.

It consists of a buckle having formed through it a tapering or wedge-shaped passage, through which the ends of the band are passed, and in having in said passage an inclined guide and stops adapted to engage an inclined flange or projection formed on the side, and notches formed on the edge of one end of the band, as will be hereinafter fully explained.

In the drawings, Figure 1 is a plan, and Fig. 2 is a section, of a buckle and band formed according to my invention, and Figs. 3, 4, and 5 are detail views of the buckle and ends of the band.

a is the buckle, through which is formed the passage *a'*, which is slightly wedge-shaped, as shown. On one side of this passage *a'* there is formed an inclined guide or flange, *b*, which extends the full width of said passage, and at the end of said passage there is formed one or more projections, *b'*, as shown.

c is the band, the end c^1 of which is provided with a suitable enlargement, c^2, which enters the passage *a'* and binds the band, as hereinafter explained.

The opposite end, *d*, of the band *c* has formed across it a series of inclined projections or flanges, d^1, which are adapted to engage on the guide *b* and cause the band to slide laterally and bring its edge firmly against the end of the passage, and cause the notches d^2 on its edge to engage the projections *b'* on the buckle and hold the band firmly in place. When the bale is released after having the band put around it, the expansion draws the end c^1 into the buckle, and wedges said band in place, so that there is no possibility of its becoming disengaged.

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

In a bale-tie, the buckle *a*, having the passage *a'* and guides *b* and projections *b'*, and band *c*, having one end provided with an enlargement, c^2, and its opposite end provided with the inclined projections d^1 and the notches d^2, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JORDAN JOHNSON.

Witnesses:
R. B. SIMMS,
S. C. ALLEN.