

W. R. LENARD.
Cotton-Bale Ties.

No. 154,799.

Patented Sept. 8, 1874.

Fig. 1.

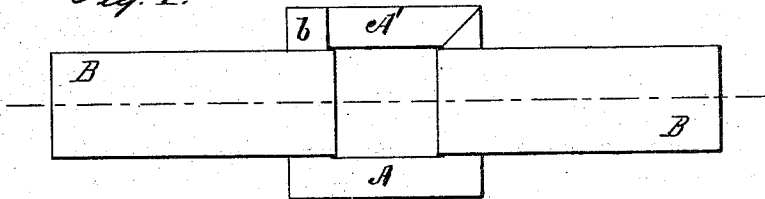


Fig. 2.

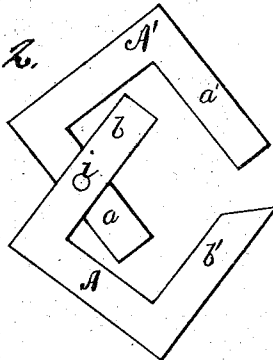
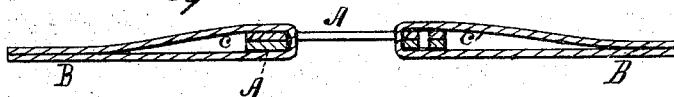


Fig. 3.



WITNESSES

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WILLIAM R. LENARD, OF WACO, TEXAS.

IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. **154,799**, dated September 8, 1874; application filed July 11, 1874.

To all whom it may concern:

Be it known that I, WM. R. LENARD, of Waco, in the county of McLennan and State of Texas, have invented a new and valuable Improvement in Bale-Tie; 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 drawing is a representation of a plan view of my bale-tie. Fig. 2 is a detail view of the same. Fig. 3 is a sectional view of the same.

This invention has relation to bale-ties wherein are used buckles for the purpose of uniting the two ends of the binders; and the novelty consists in the novel construction and arrangement of the various parts of the automatic lever-clasp hereinafter more fully claimed and explained.

In the annexed drawings, A A' designate, respectively, the upper and lower plates of my improved buckle, which are preferably of U shape, and rectangular as regards their sides. Through either of the arms *a a'*, and either of the arms *b b'*, at or near the middle of their length, a perforation is made, through which is passed a pivot, *i*, upon which the upper plate A and the lower plate A' are to vibrate the one upon the other. B designates a binder of strap-iron, of suitable length and strength, by means of which a baled mass is to be held at the desired degree of compression; one end of which is passed into the buckle, around the pivoted bars thereof, previous to encircling the compressed mass. The upper and lower plates A A are then caused

to hinge, the one upon the other, to be opened as shown in Fig. 2.

The binder having been first properly bent to form a loop, the said loop is then inserted into the opening of the buckle around one of the arms bounding the opening of the buckle, which is then closed by pressing the plates A A' thereof together, when the other arm will also be inserted into the loop of the binder, completing the tie. If, now, the compressing-power be removed, the looped ends *c c'* of the binder will be rigidly held against unlooping by the pressure of the baled mass; and the line of strain being in the length of the said binder, the pivot *i* and the arms *a a'* and *b b'* will both share with each other the strain caused by the expansion of the baled mass.

I am well aware that it is not new to construct a bale-tie as shown in the patent of W. D. Field, No. 140,024, dated June 17, 1873; hence I do not claim such invention.

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

In a bale-tie, the plate A, consisting of an end and two equal sides, *a a'*, of a rectangle, and the plate A' of similar construction, pivoted the one to the other at the middle of the length of the leverage sides *a b*, and held closed by the expansion of the baled mass, to form a rectangular clasp without edge-hooks, substantially as specified.

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

WILLIAM RINULDA LENARD.

Witnesses:

E. A. MCKENNEY,
R. W. DAVIS.