

A. BALDWIN.
Cotton-Bale Ties.

No. 153,035.

Patented July 14, 1874.

Fig 1.

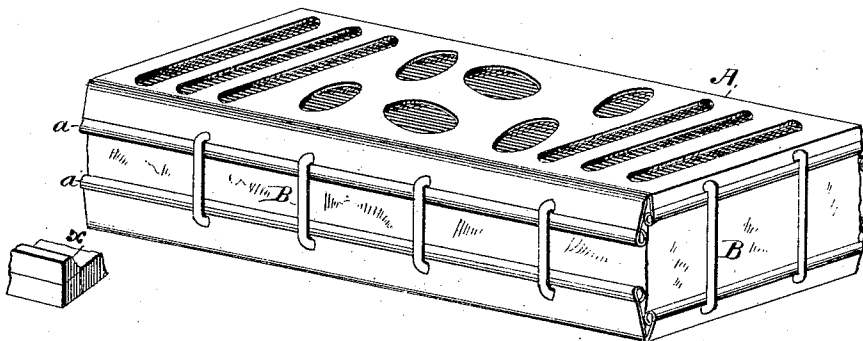


Fig 2.

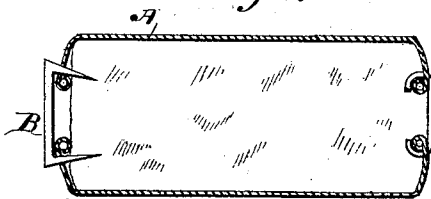


Fig 3.

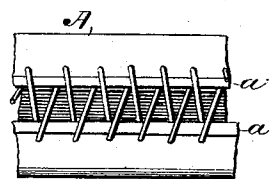


Fig 4. a

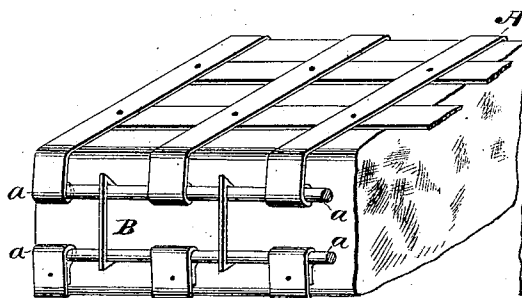


Fig 4. b.

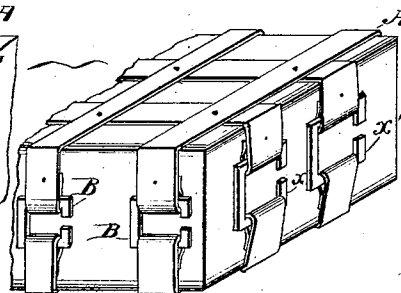
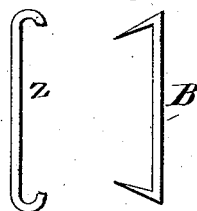


Fig 5



Witnesses;
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Inventor.

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Atlys.

UNITED STATES PATENT OFFICE.

AUGUSTINE BALDWIN, OF NEW YORK, N. Y., ASSIGNOR TO THE COMPRESSING COMPANY, OF SAME PLACE.

IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. **153,035**, dated July 14, 1874; application filed January 30, 1874.

To all whom it may concern:

Be it known that I, AUGUSTINE BALDWIN, of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Cotton-Bale Fasteners; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention is designed to obviate the objections incidental to the employment of the independent single bands for securing cotton-bales, these objections being mainly that each band must be handled singly, and that from its great length, and consequent friction upon the rough bagging of the bale, it is impossible to draw it tightly enough to prevent expansion to a serious extent, when the pressure of the press is removed from the bale; and it consists, mainly, in the employment of independent caps of suitable material and construction, adapted to cover the top and bottom surfaces of the bale and project over its edges, in connection with a series of intermediate independent fastening devices of any suitable kind, adapted to unite the parts of the caps which project over the edges upon each side of the bale, these caps consisting of a metallic sheet, net-work, or system of bands forming an entirety, adapted to be handled as a unit, and to be applied tightly to the bale by the pressure of the press itself, as will be fully described hereinafter.

In the drawings, Figures 1 and 4 represent perspective views of bales having my improved fastening device applied thereto; Fig. 2, a sectional elevation; Fig. 3, a side elevation, representing one method of uniting the edges of the covering-caps; and Fig. 5, elevations of two forms of fastening devices employed.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A in all the figures represents the covering-caps, consisting of a metallic sheet, ei-

ther perforated or plain, a net-work or system of bands forming an entirety, adapted to be handled as a unit, the same being applied to the top and bottom surfaces of the bale, as shown. B B represent any suitable fastening device, adapted to unite the edges or the parts of the caps which extend over the sides, as shown.

The manner of applying these securing devices to the bale is preferably as follows: The bale to be compressed, having been stripped of its bands, has applied to its top and bottom surfaces a covering-cap, either in the press or before being placed there, as may be desired.

When subjected to the action of the press, which latter is provided upon its platens with adjustable blocks *z*, Fig. 1, the caps are shaped to the bale and tightly drawn to place, in which position they may be secured by applying the fastening devices.

From this description it will be understood that the covering for the entire top or bottom of the bale, and for a portion of the sides, is formed of a single covering-piece, or system of pieces, instead of a number of separate bands, and that this single piece or system of pieces is tightly drawn to its place by the action of the press, and so secured that expansion cannot occur after its removal therefrom.

In Fig. 1 the cap is represented as being formed of a perforated sheet, and in Fig. 4 of a system of bands.

A bar, *a*, may be used, if desired, to strengthen the edges of the sheet, as shown in Fig. 1, or to unite the bands together, as shown at *a*, Fig. 4.

The ordinary tie may be employed as a fastener, as shown at *x'*, Fig. 4, *b*, or hooks of various forms, as shown in Figs. 1, 2, and 4, *a*; or, if desired, a system of lacing may be employed, as shown in Fig. 3.

If desired, the ends may be also secured in any proper manner, as shown in Figs. 1 and 4.

The advantages of the described construction are, that two caps are employed to fasten the bale, in place of a number of independent bands, and that these caps are tightly ap-

plied to the bale by the power of the press itself.

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

The combination of the independent caps, adapted for application to the top and bottom surfaces of the bale, with the independent in-

termediate securing devices in their various forms, substantially as described.

This specification signed and witnessed this 23d day of June, 1874.

AUGUSTINE BALDWIN.

Witnesses:

J. T. CALDWELL,
H. W. BEADLE.