

J. L. RANDOLPH.
BALE-TIES.

No. 194,975.

Patented Sept. 11, 1877.

Fig. 1.

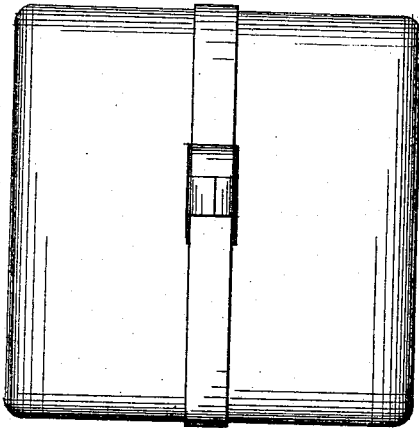


Fig. 2.

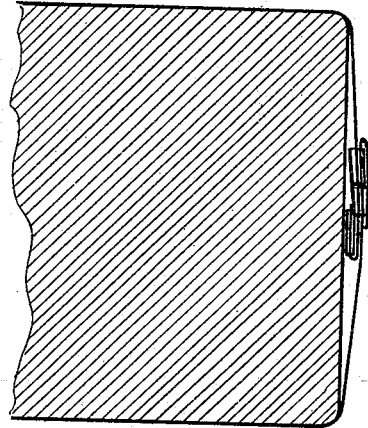


Fig. 3.

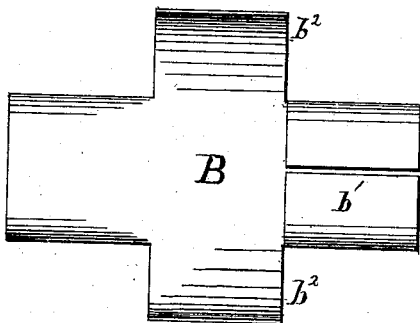


Fig. 4.



Fig. 5.

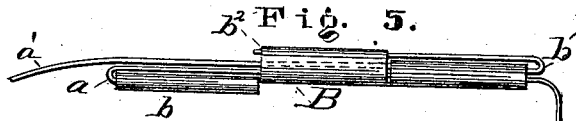


Fig. 7.



Fig. 8.



Fig. 6.



WITNESSES:

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JAMES L. RANDOLPH, OF MARTINSBURG, WEST VIRGINIA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 194,975, dated September 11, 1877; application filed August 17, 1877.

To all whom it may concern:

Be it known that I, JAS. L. RANDOLPH, of the city of Martinsburg and State of West Virginia, have invented a new and useful Bale-Tie; 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 consists mainly in the combination, with a tie of peculiar construction, of the folded end of the band or strap, the two being united, for transportation and sale, in such manner as to form a single article.

In the drawings are represented various views of the tie and its modifications.

To enable others skilled in the art to make and use my improved tie, I will now proceed to describe fully its special construction and the manner of applying the same to the bales.

A, Figures 1, 2, and 5, represents the band, of strap-iron or other proper material of suitable strength, which may be of any desired length, width, and thickness.

a, Fig. 5, represents a fold or bend formed at one end of the band, as shown.

B represents the tie, consisting of a metal plate of proper length, width and thickness, which is cut and bent in such manner as to form, first, at one end, upon one side, the socket *b*, adapted to receive and hold the folded end *a* of the band; second, at the other end, upon the opposite side, a loop or box, *b*¹, adapted to hold the two parts of the strap, as shown; and, third, in the center, wings or flaps, *b*², adapted to be folded down when the union of the parts has been completed, as will be hereinafter described.

The manner of constructing my invention is substantially as follows: The tie is first made, by means of proper dies or in any other suitable manner, in the form shown in Fig. 4. One end of the strap is then attached thereto, by passing the same through the loop or box *b*¹ and placing the fold *a* in the socket *b*, as shown in Fig. 5. Then, if desired, the flaps forming the socket *b* may be hammered down to gripe the fold, and prevent the parts from becoming accidentally detached.

When thus prepared, the tie and band form a single article, in convenient form for transportation and sale.

The manner of using the same is substantially as follows: The band having been passed about the bale, the free end *a*' is passed through the box *b*¹ and drawn tightly to place. The end portion, then, of the band which extends beyond the edge of the box is bent backward over the same, and secured in place by bending down the wings or flaps *b*², as shown. When the parts are thus united no accidental separation can occur at the tie, this portion being, it is believed, the strongest part of the band.

A modified form is shown in Fig. 6, this being precisely like that previously described, with the exception that a space, *x*, is left between the box *b*¹ and the wings *b*², in order that the latter may be depressed when hammered down to the horizontal plane in which that portion of the band lies which passes over the box *b*¹. If this space were not left one edge of these wings could not be depressed so far, and they might project in such manner as to cause annoyance.

A modified form, also, is shown in Fig. 7, this being like that shown in Fig. 6, with the exception that the portion *b*, instead of being made of an extended portion of material, is formed from that which is cut to make the space *x*.

A modified form, also, is shown in Fig. 8, this being similar to that shown in Fig. 6, with the exception that the socket *b* is formed on the upper side of the tie instead of the lower, by which means the under surface is left entirely smooth.

This tie is exceedingly simple in construction, and possesses great strength when in use.

The principal parts may be made ready for use in the shop, and then transported to the place of use.

This tie and strap may, of course, be used for any purpose for which it is adapted.

The form of tie last described is specially adapted for baling goods, its smooth under surface affording no opportunity for injuring the goods.

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

1. The tie described, having the socket *b*, the box *b*¹, and the folding wings *b*², as described.

2. The tie described, having the box *b*¹, the folding wings, and the socket formed by the material cut to form the space *x*, as described.

This specification signed and witnessed this 16th day of August, 1877.

JAMES L. RANDOLPH.

Witnesses:

THOMAS MURDOCH,
N. F. BURKE.