

J. L. RANDOLPH.

BALE-TIE.

No. 177,957.

Patented May 30, 1876.

Fig 1.

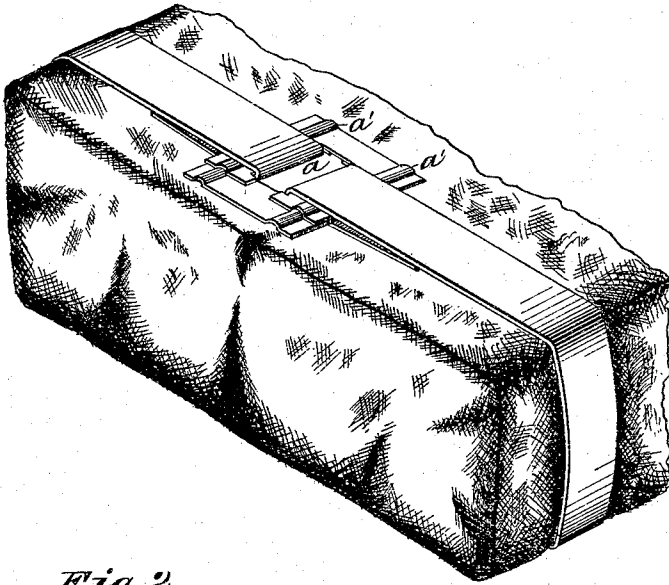


Fig 2.

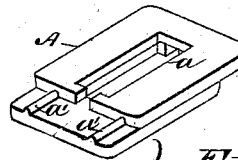
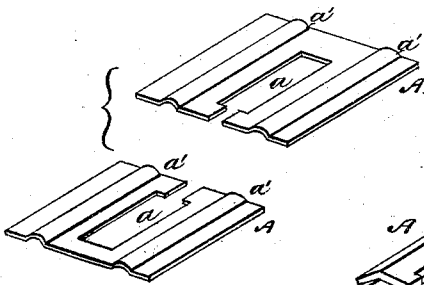


Fig 3.

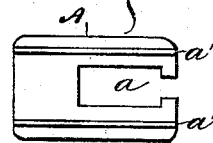
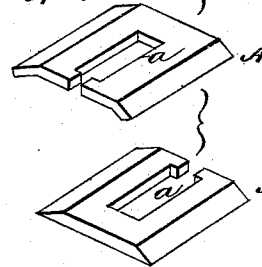


Fig 4.



Witnesses ;
Harry C. Clark,
W. E. Haffner

Inventor.
Jas. L. Randolph.
by New Beadle & Co
his attys.

UNITED STATES PATENT OFFICE.

JAMES L. RANDOLPH, OF MARTINSBURG, WEST VIRGINIA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **177,957**, dated May 30, 1876; application filed November 9, 1875.

To all whom it may concern :

Be it known that I, J. L. RANDOLPH, of Martinsburg, in the county of Berkeley and State of West Virginia, have invented a new and useful Improvement in Bale-Ties; 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 relates to that class of bale-ties which consist of two similar metal pieces or buckles, having open-sided slots, the two being used to make a single tie by passing each one through the loops of the band from opposite sides, by which means the slotted sides of one are protected from strain by the uncut portion of the other; and it consists in forming these buckles of rolled metal, and in providing them with longitudinal grooves, for the purpose of uniting the two parts together, in order that they may resist strain, like a single closed buckle.

In the drawings, Figure 1 represents my improved tie as applied to the bale, and Fig. 2 views of the same detached; and Figs. 3 and 4, modifications of the same.

A represents a buckle, having the open-sided slot *a*, as shown. *a' a'* represent longitudinal grooves rolled therein.

When the buckle is in use the grooves coincide, so that the cut portion of each is re-enforced by the uncut portion of the other.

If desired, other forms of grooves may be employed, as shown in Fig. 3, or an equivalent device, as shown in Fig. 4.

As this special construction may be made by rolling, it can be produced at small cost.

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

The rolled and longitudinally-grooved plates, provided with central and side openings, both said plates being used to form a single buckle, substantially as described.

This specification signed and witnessed this 2d day of August, 1875.

JAMES L. RANDOLPH.

Witnesses:

JNO. A. BOYER,
J. A. HUNTER.