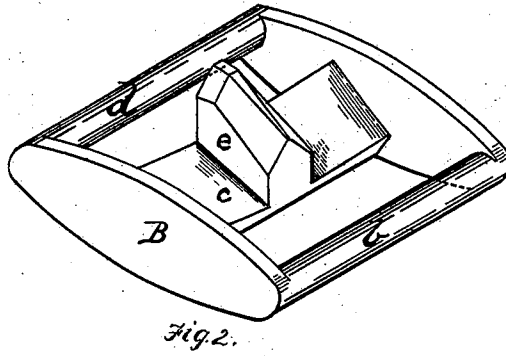
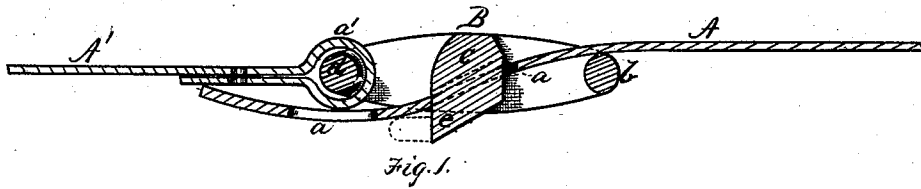


E. WILSON.

BALE-TIE.

No. 193,361.

Patented July 24, 1877.



Witnesses.

James I. Gray  
James B. Bakewell

INVENTOR.

Erasmus Wilson  
by Bakewell & Klein  
Attys.

# UNITED STATES PATENT OFFICE.

ERASMUS WILSON, OF ALLEGHENY, PA., ASSIGNOR TO HIMSELF AND  
JAMES H. LINDSAY, OF SAME PLACE.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 193,361, dated July 24, 1877; application filed  
December 12, 1876.

*To all whom it may concern:*

Be it known that I, ERASMUS WILSON, of Allegheny city, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Cotton-Bale and similar Ties; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a longitudinal section of portions of a bale-band, and a buckle illustrating my invention. Fig. 2 is a perspective view of the under side of a slotted buckle embodying my invention.

Like letters refer to like parts wherever they occur.

My invention relates to that class of bale and similar ties, wherein a slotted buckle is employed.

I will now proceed to describe my invention, so that others skilled in the art to which it appertains may apply the same.

A A' represent portions of a bale or similar band, one end of which is closely connected to the buckle, so as to pivot, hinge, or turn thereon, as indicated at *a'*, the other or free end of the band having slots *a* to engage with the locking-lug of the buckle, such connection between the band and buckle being intended to allow the buckle to adapt its position to the line of draft.

B indicates the buckle, having a fulcrum-bar, *b*, over which the free or slotted end of the bale-band is passed, and a locking-bar, *c*, upon the under side of which is a rigid tongue or locking-lug, *e*. The locking-bar *c* is beveled on the side toward the fulcrum-bar *b*, so that the band may not encounter a sharp edge, which, in addition to other disadvantages, would act as a fulcrum to force the lug out of the slot; and to still further insure a safe lock, the shoulders of the lug *e* are preferably made square, as shown. If desired, the lug *e* may be hook-shaped, as indicated in dotted line Fig. 1.

Where the hinge-connection *a'* is made to

the locking-bar, the bar will, of course, be rounded to serve as a pintle instead of being beveled, as before specified; but in general the buckle will be double slotted, so that in addition to the fulcrum and locking-bars *b c*, an independent pivot or pintle-bar *d* is obtained.

The preferable buckle is, therefore, a double-slotted buckle, having the fulcrum-bar *b*, the beveled locking-bar *c* with square-shouldered locking-lug *e*, and the pintle-bar *d*, to the latter of which one end, A', of the band is secured by bending or looping it, as shown at *a'*, and either riveting or not, as preferred.

When employed, the free or slotted end A of the band is passed over the fulcrum-bar *b*, thence under the locking-bar *c*, until the locking-lug *e* has entered one of the slots *a*, when the buckle, being free to turn, will accommodate itself to the line of draft.

The advantages of a tie constructed as specified are, that it is quickly and readily fastened, and will not unlock when the bale is roughly handled.

I do not herein claim a slotted buckle having a fulcrum-bar, a pivot or hinge bar, and a locking-lug; but

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

1. The slotted buckle having the fulcrum and pivot bars, and a locking-lug projecting in a direction opposite to the line of strain, the bar of the locking-lug being beveled in the line of strain, substantially as and for the purpose specified.

2. In combination with a slotted bale-band, the slotted buckle having the locking-lug *e* and the bar *c*, beveled as herein specified, and for the purpose set forth.

In testimony whereof I, the said ERASMUS WILSON, have hereunto set my hand.

ERASMUS WILSON.

Witnesses:

F. W. RITTER, Jr.,  
JAMES I. KAY.