

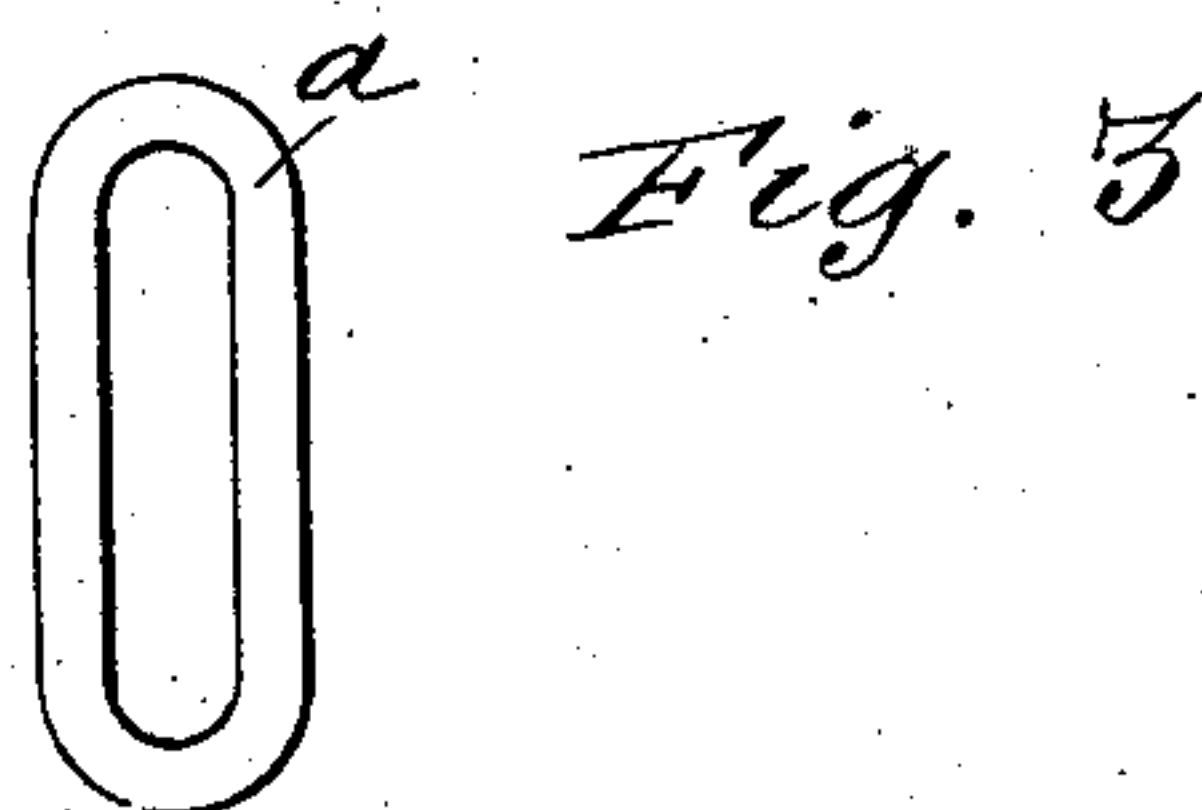
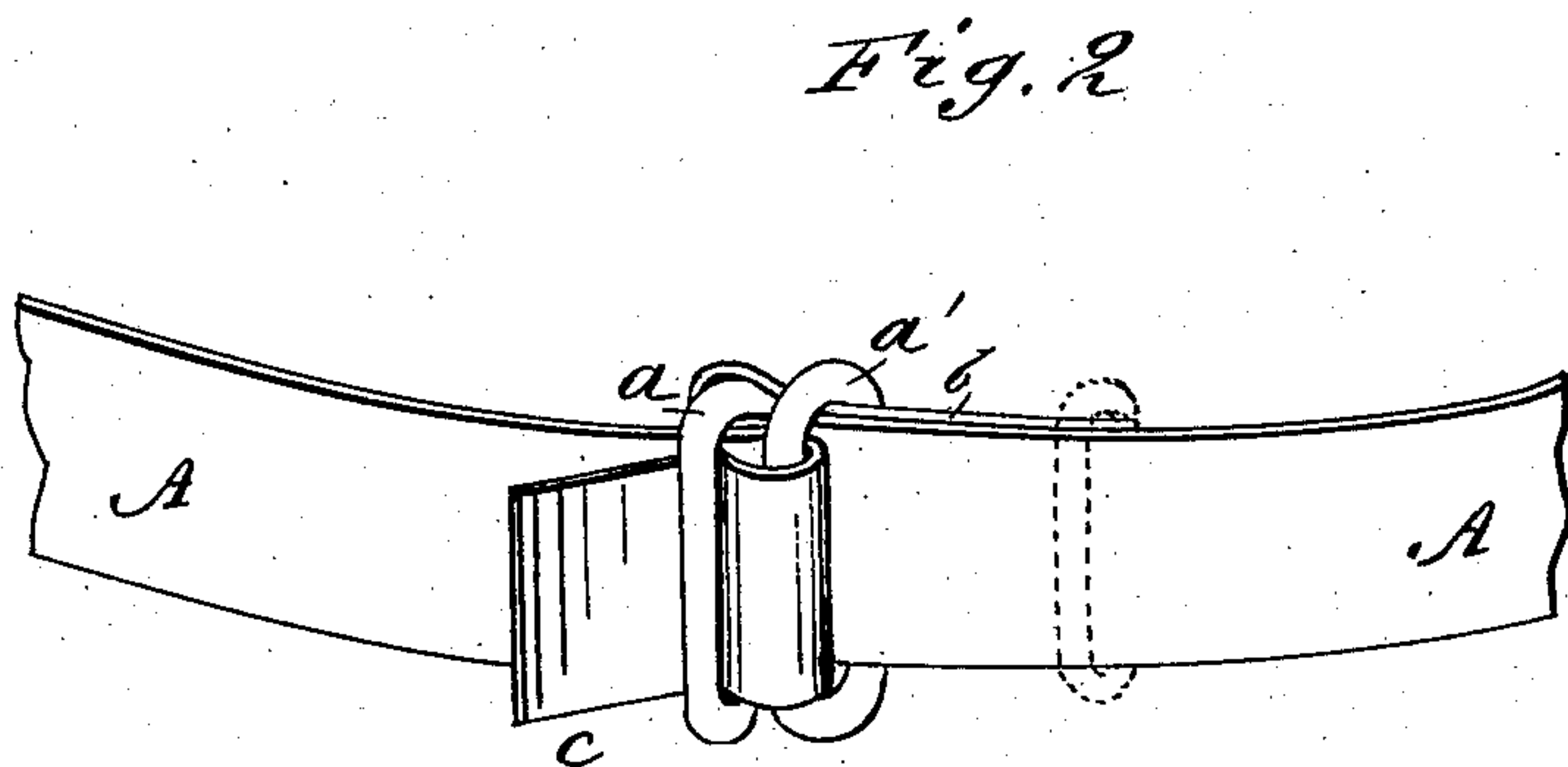
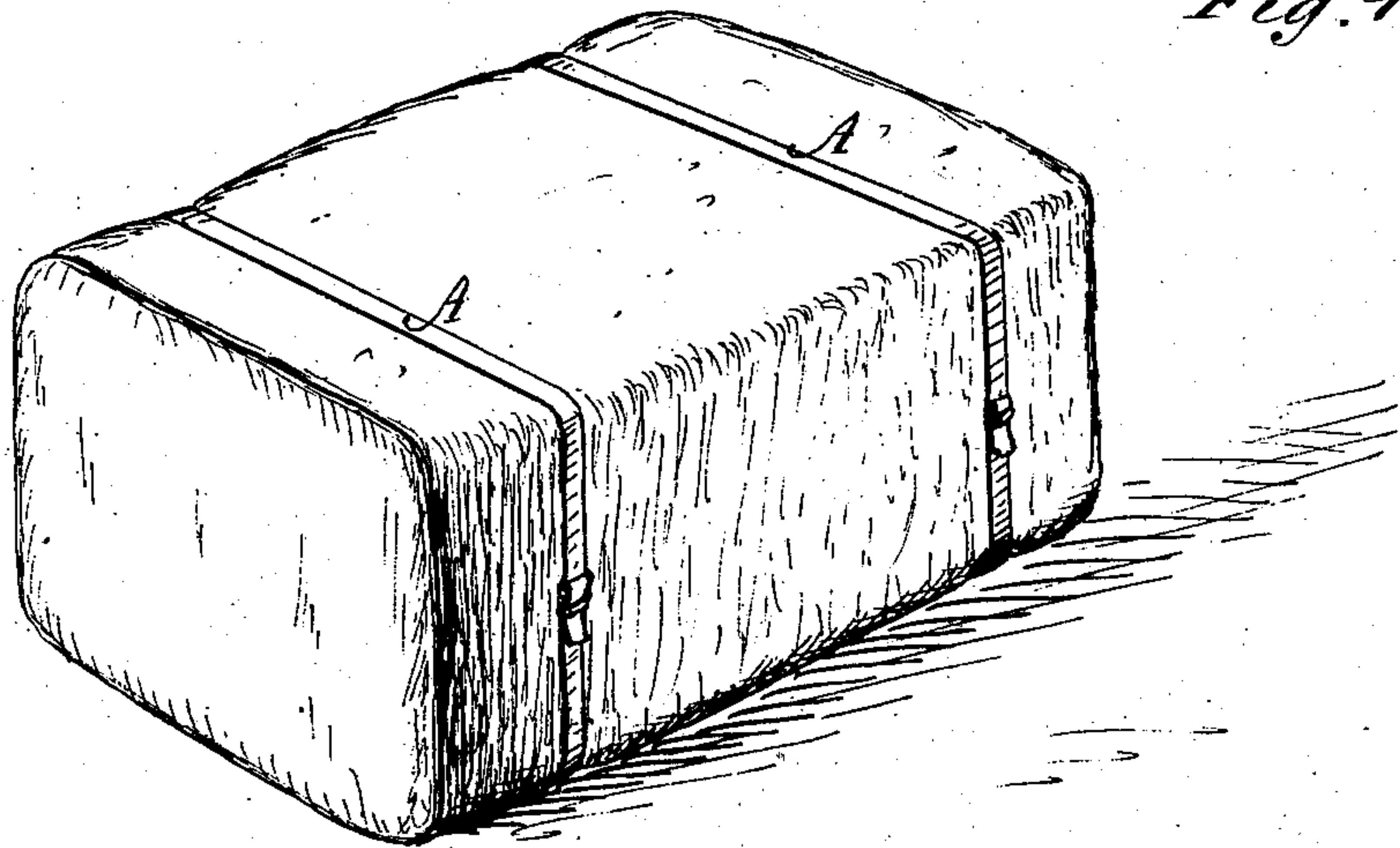
(No Model.)

J. B. ALLEN.

BALE TIE.

No. 260,515.

Patented July 4, 1882.



WITNESSES:

*C. N. Vaux*  
*C. Sedgwick*

INVENTOR:

*J. B. Allen*  
BY *Mum & Co*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN B. ALLEN, OF NASHVILLE, TENNESSEE.

## BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 260,515, dated July 4, 1882.

Application filed December 15, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. ALLEN, of Nashville, Davidson county, Tennessee, have invented a new and useful Improvement in Bale-Ties, of which the following is a full, clear, and exact description.

The object of my invention is to provide a cheap, strong, and simple bale-tie, having such construction that it can be unfastened without the necessity of compressing the bale.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a bale having my improved tie. Fig. 2 is a perspective view of the tie; and Fig. 3 is a plan view of one of the rings.

In my improved tie I employ the elliptical rings *a* and *a'*, which may be cast of malleable iron, or made of wire of suitable size by welding, as in making chain-links; or they may be stamped out of plates of metal of suitable thickness by means of a die and mandrel.

In preparing the bands or straps of iron *A* to be placed upon the bale the ring *a* is first secured to one end of the strap by passing the end through the ring and bending the strap back to form the lap *b*. The ring *a'* is then slipped upon the band or strap to the position shown in dotted lines in Fig. 2 over the end

of the lap *b*. When the strap is passed around the bale ready to be tied the free end of the strap is passed through both of the rings and bent outward over the ring *a'* to form the lap *c*, and is then passed back through the ring *a*, so that upon removing the pressure from the bale the rings and laps will be drawn to the position shown in full lines in Fig. 2, forming a secure lock or tie.

To untie the bale it is only necessary to pry the rings apart until the end of the lap *c* passes the ring *a*, which prying apart can be done without compressing the bale.

It will be observed that there is no danger of the rings cutting the bands, so as to injure them or cause them to break, as the rings are round in cross-section and present no sharp edges to the band or strap.

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

The bale-tie herein shown and described, formed by the employment of the rings *a* and *a'*, the ring *a* being secured to the band or strap by the lap *b*, the end *c* of the strap being passed through the rings, and bent back over the ring *a'*, and passed under the ring *a*, substantially as set forth.

JOHN B. ALLEN.

Witnesses:

MATT. F. ALLEN,  
F. T. CUMMINS.