

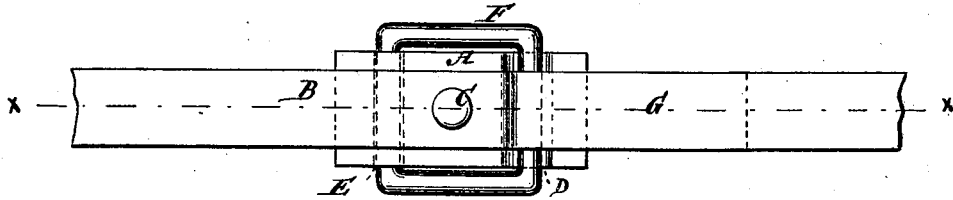
J. B. ARRANTS.

Bale-Tie.

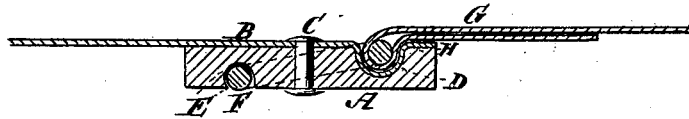
No. 159,060.

Patented Jan. 26, 1875.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*E. Wolff.*  
*A. J. Terry.*

INVENTOR:

*J. B. Arrants*  
BY *Munnell*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN B. ARRANTS, OF SOCIETY HILL, SOUTH CAROLINA.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 159,060, dated January 26, 1875; application filed December 28, 1874.

*To all whom it may concern:*

Be it known that I, JOHN B. ARRANTS, of Society Hill, Darlington county, South Carolina, have invented a new and Improved Bale-Tie, of which the following is a specification:

My improved tie consists of a block or plate, to which one end of the hoop is riveted at or about the middle of the side which is outward when applied to the bale, and across the outside of the upper end; and also the inside of the lower end, is a transverse groove, in which a loop is secured of wire, around one bar of which the other end of the hoop is bent, the loop being so adjusted on the aforesaid block that the strain of the hoop keeps it in place, and the loop so binds the part of the hoop bent around it in one of the said grooves in the block as to hold it securely.

Figure 1 is a plan view of my improved tie. Fig. 2 is a longitudinal section on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the block or plate of metal, to which one end, B, of the hoop is riveted at C, and which has a transverse groove, D, near the upper end of the outside; also a similar groove, E, near the lower end of the inside. F represents the wire loop, around one bar of which the end G of the hoop is bent, and which

connects with the block by engaging in the grooves in the manner shown in the drawing, the said end G being turned back under itself against the bale, so as to be bound fast by the strain on the shoulder H, between groove D and the end of the block. The end B extends from the rivet C along the block far enough to be also secured in groove D by the loop, so as not to depend wholly upon the rivet for maintaining the connection with the block.

The loop F is kept in place by the strain on it; but it can be very readily disconnected by pushing one part out of the groove E, and pulling the other part out of the groove D. The connection is made by merely pulling the block through the yoke, and slipping them along each other until the loop drops into the grooves.

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

The block or plate A, having grooves D and E, attached to part B of the hoop, in combination with loop F, having part G of the hoop connected to it, all substantially as specified.

JOHN BROOME ARRANTS.

Witnesses:

E. P. CANNON,  
F. E. MATHIS.