

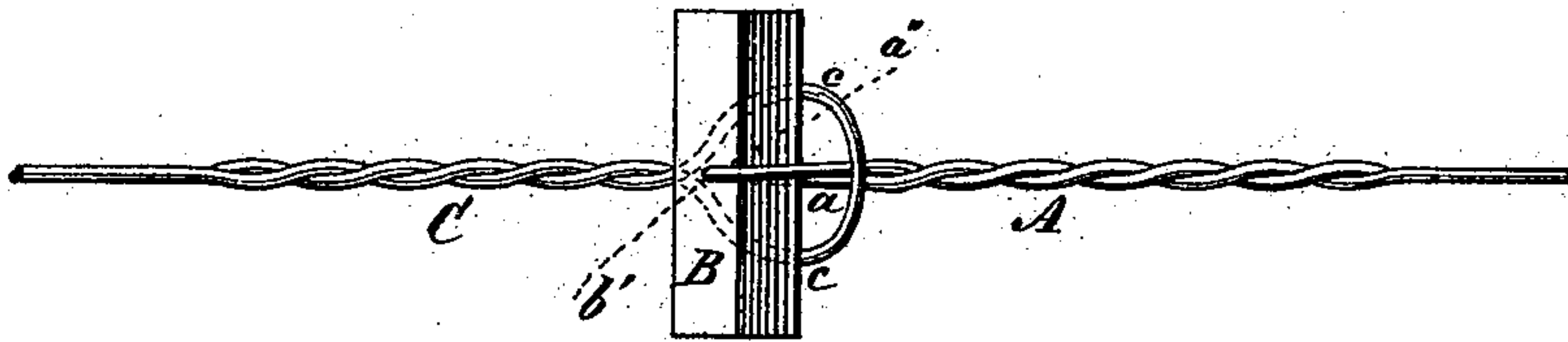
B. K. FOWLER.

BALE-TIE.

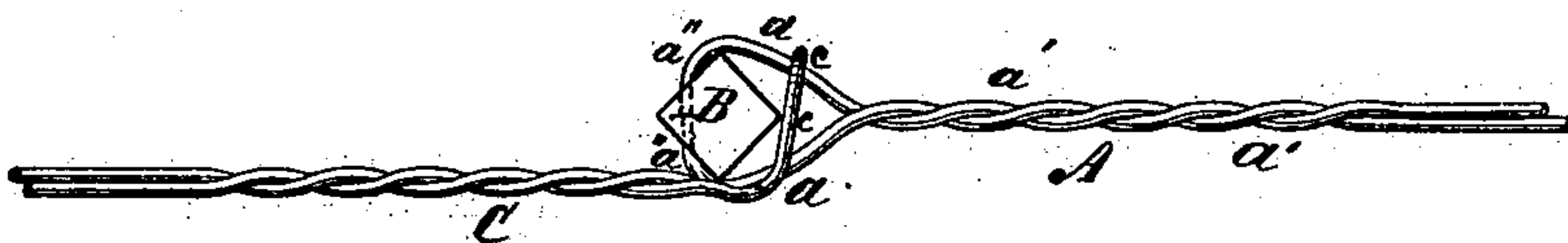
No. 178,754.

Patented June 13, 1876.

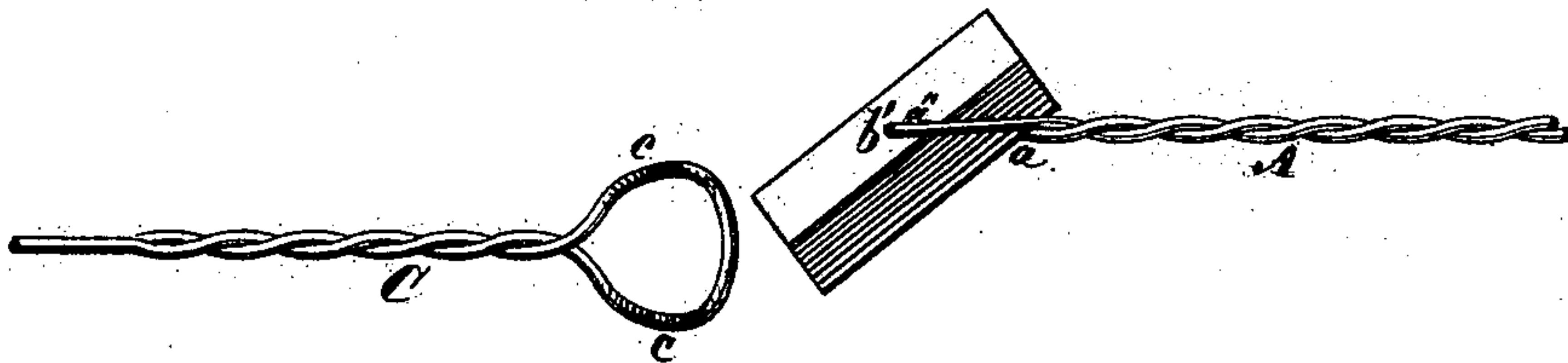
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses:*

*Henry Eichling.*  
*Edward Holly*

*Inventor:*

*Benjamin K. Fowler*  
*per James A. Whitney*

# UNITED STATES PATENT OFFICE.

BENJAMIN K. FOWLER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS  
RIGHT TO WILLIAM G. BENT, OF SAME PLACE.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 178,754, dated June 13, 1876; application filed  
February 18, 1876.

*To all whom it may concern:*

Be it known that I, BENJAMIN K. FOWLER, of the city, county, and State of New York, have invented an Improvement in Wire Bale-Ties, of which the following is a specification:

This invention is particularly designed for that class of bands for binding bales made wholly of wire, and its object is to provide a cheap and simple tie, which may be readily applied to use, and which will securely and firmly connect the ends of the wire band together.

The invention consists in a cross-bar pivoted in a loop formed on one end of the band, in combination with an outwardly-turned loop provided upon the other end of the band, of and through which the cross-bar is thrust, and against the inner side of which it is turned and held when the tie is in use.

Figure 1 is a plan view, representing a tie for wire bands for bales made and applied to use according to my invention. Fig. 2 is a side view of the same. Fig. 3 is a view showing the two parts of the tie detached, preliminary to their connection in fastening the band upon the bale.

A indicates one end of the wire band, upon which is formed the loop *a* by turning back and twisting the wire band, as shown at *a'*, the outer end of this loop being preferably more or less flat, as shown at *a''*. B is a cross-bar, (so termed,) through which is formed an eye, *b'*. (Shown more fully in Figs. 1 and 3.) This cross-bar may be made of wood or metal. In the formation of the loop *a*, as just described, the wire is first thrust through this eye *b'*, so that when the loop is complete the cross-bar will be pivoted in the said loop, and be capable of swinging upon the part *a''* thereof into a position more or less coincident with the end A of the band, as indicated in Fig. 3. C represents the opposite end of the band, having formed upon it a loop, *c*, in the same manner that the loop *a* is formed upon the other end, A, of the said band; but this loop

*c*, instead of being longitudinal with the end C of the band, is turned up or outward at an angle to the length of the part C, as more plainly shown in Fig. 2.

When the band is applied upon the bale the cross-bar B on the end A of the band is turned into the position shown in Fig. 3, which enables it to be thrust lengthwise through the loop *c* of the other end, C, of the band. The cross-bar, being thrust through the loop *c*, as just described, to a sufficient distance, is turned at right angles to the end A, and thus brought coincident with the inner side of the loop *c*, lying across the said loop, as represented at Figs. 1 and 2. This done, the usual expansion of the bale, when relieved from the compression to which it is subjected during the placing of the band thereon, draws the band tight, the cross-bar holding against the loop *c*, and the two ends A C of the band being thereby firmly connected.

I do not claim a rigid cross-piece on one end of the wire tie, adapted to pass through an enlarged portion of the loop on the other end, as shown in the patent of E. S. Lenox, December 21, 1869, No. 98,169. Neither do I claim a sliding link provided on one end of the tie, and adapted to be slid through said end of the tie in its passage through the loop provided on the other end, as shown in the patent granted to C. A. Ward, No. 157,303, and dated December 1, 1874; but

What I claim as my invention is—

In a wire band for bales, the cross-bar B, pivoted in the loop *a*, provided upon the one end, A, of the band, in combination with the outwardly-turned loop *c* on the other end, C, of the said band, the same constructed and combined substantially as and for the purpose herein set forth.

BENJAMIN K. FOWLER.

Witnesses:

H. WELLS, Jr.,  
WM. TUNNEY.