

J. D. Van Benthuyssen.

Cotton Bale Tie.

N^o 70,295.

Patented Oct. 29, 1867.

Fig. 1.

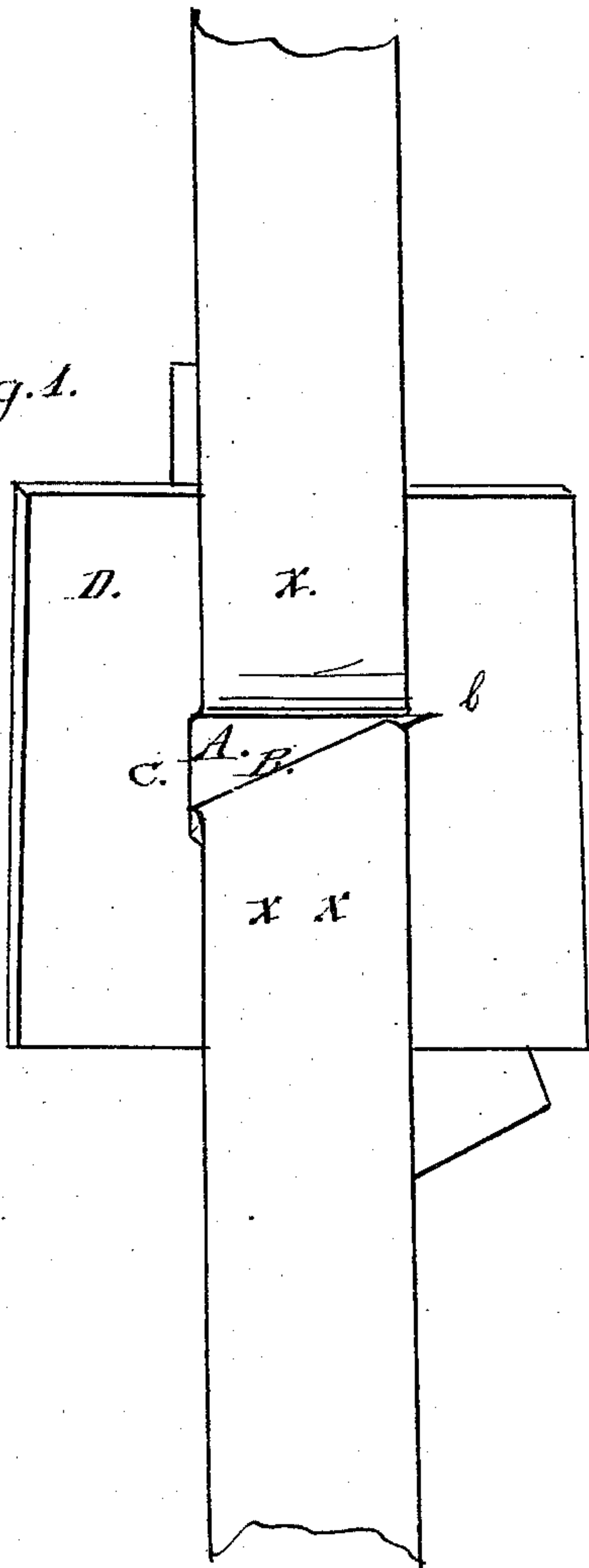
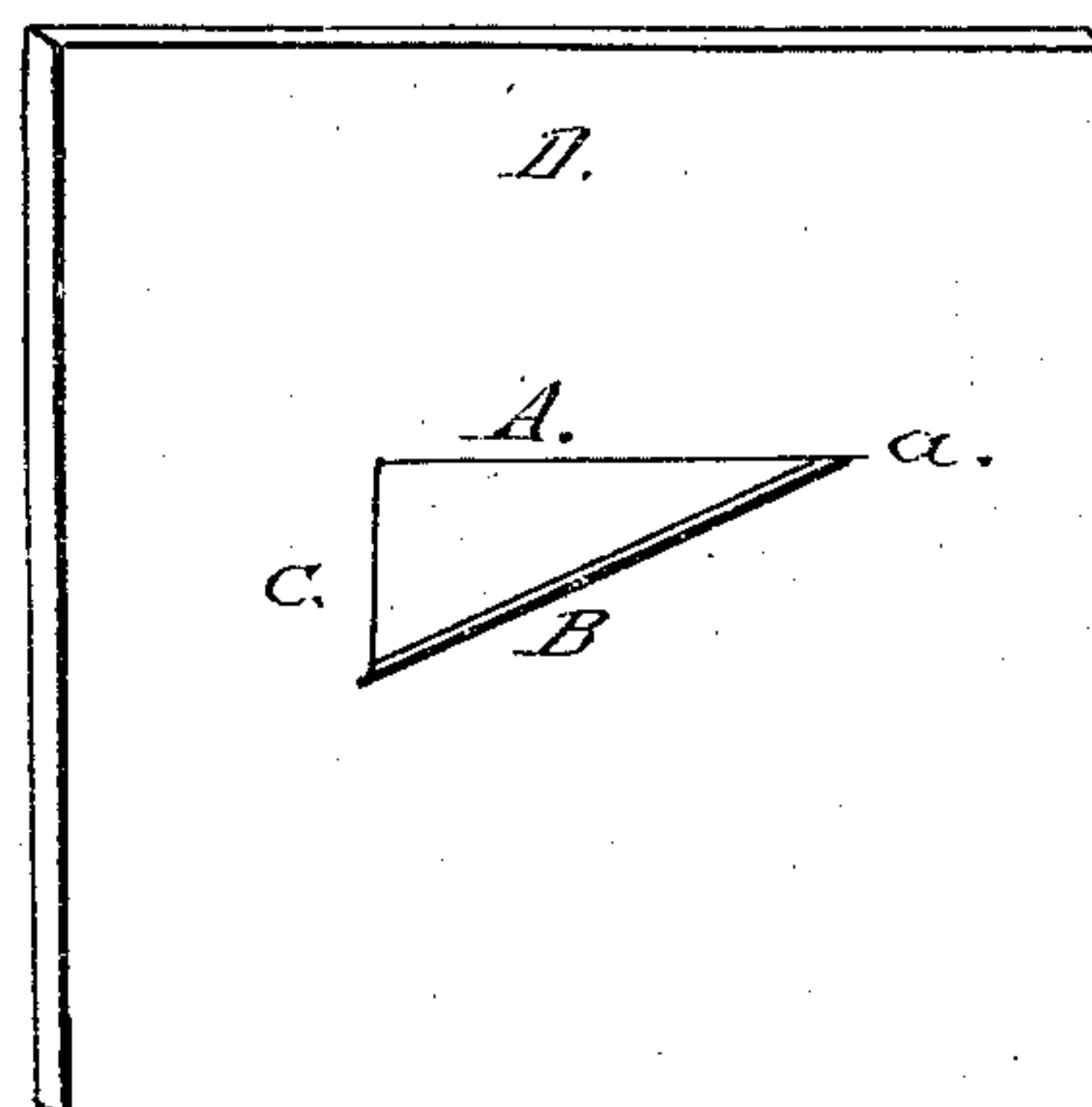


Fig. 2.



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IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **70,295**, dated October 29, 1867.

To all whom it may concern :

Be it known that I, JOS. D. VAN BENTHUYSEN, of the city of New Orleans, parish of Orleans and State of Louisiana, have invented a new and Improved Buckle for Cotton-Bale Hoops; and I do hereby declare the following to be a full, clear, and exact description thereof, sufficient to enable others skilled in the art to which the invention appertains to make and use it, reference being had to annexed drawings, which form a part of this specification, in which—

Figure 1 represents the buckle in position on the bale.

The nature of my invention consists in cutting a triangular opening in a plate of metal of either wrought or cast iron, the longer or diagonal side of said opening being beveled.

The great utility and practical advantages secured by this form and construction of opening will readily suggest itself to any one familiar with the practical working of the ties now in the market.

First. The tie can be made lighter, and, at the same time, possess greater strength and durability than by any other plan now in use. The opening is in the center of the plate, and thus necessarily leaves in a tie of ordinary dimensions sufficient margin of the plate around the opening to enable the tie to securely bear any degree of pressure which the expansion of the cotton may require.

Second. The beveled edge enables the band or hoop to be lapped around the tie with great facility. The bend, instead of being made around a square, straight surface is made around a diagonal-sloped edge, which is exactly adapted to the side turn required in securing an easy bend of the hoop, and, at the same time, entirely equalizes the strain on the tie, caused by the pressure of the bale.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

D is a metal plate of wrought or cast iron, and may be square or of any other desired form. Near the center of this plate D I cut an opening or slot, A B C, C being the base; A, a straight side, and cut at right angles to the base C; and B being a diagonal side, which extends from the base C to the upper portion of the side A, thus giving to the opening or slot a triangular form or shape. Instead of uniting the sides A and B, as shown at *a*, Fig. 2, they may meet, so as to form an "arrow-head" opening, as shown at *b*, Fig. 1. The end of the band or hoop X, that is to be firmly secured to the tie, is inserted in the triangular opening, and passed around the edge A, as in ordinary ties, the length of the side A being somewhat greater than the width of the bale or hoop generally used. The unattached end of the hoop is also inserted in the opening and passed around the edge B. Said edge, being beveled, secures a uniform strain on the hoop, which, in bending, is naturally turned to one side, as clearly shown in Fig. 1. The edge of the side B being beveled not only secures the uniform strain above alluded to, but also affords a smoother and neater turn to the hoop, and a much firmer attachment thereof to the tie, than could possibly be obtained where the edge of the side B is left square or not beveled.

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

Constructing a cotton-bale tie with a triangular opening, as shown, when the diagonal side thereof is beveled, substantially as described, and for the purpose set forth.

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Witnesses:

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