

J. H. GOOCH.
COTTON BALE TIE.

No. 77,277.

Patented Apr. 28, 1868.

Fig. 1.

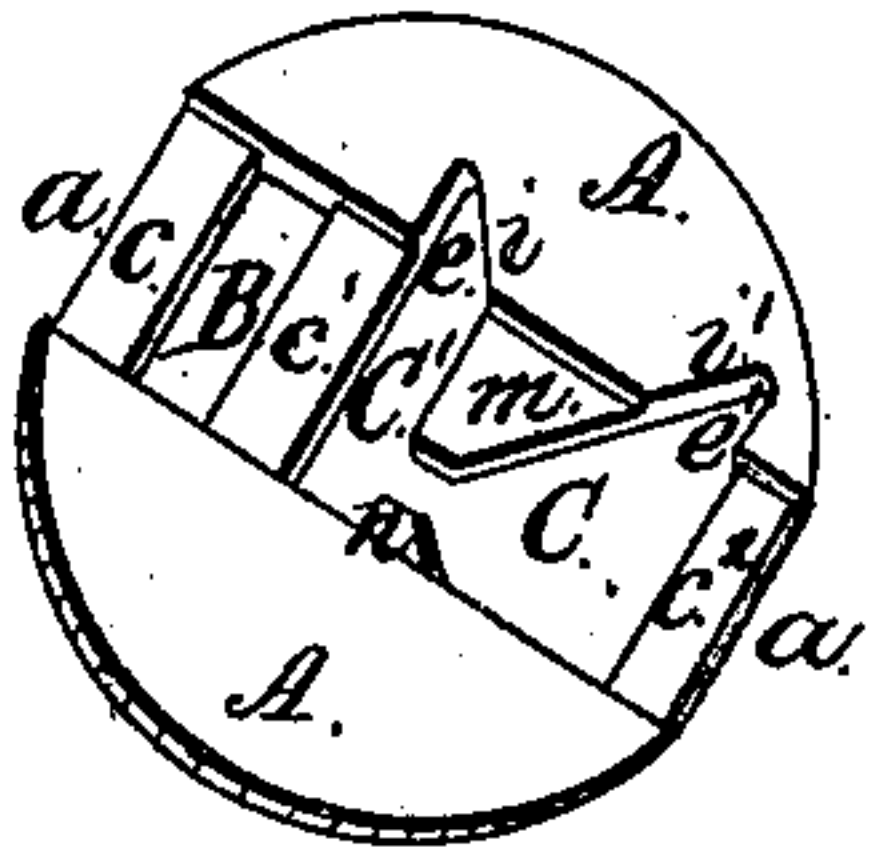
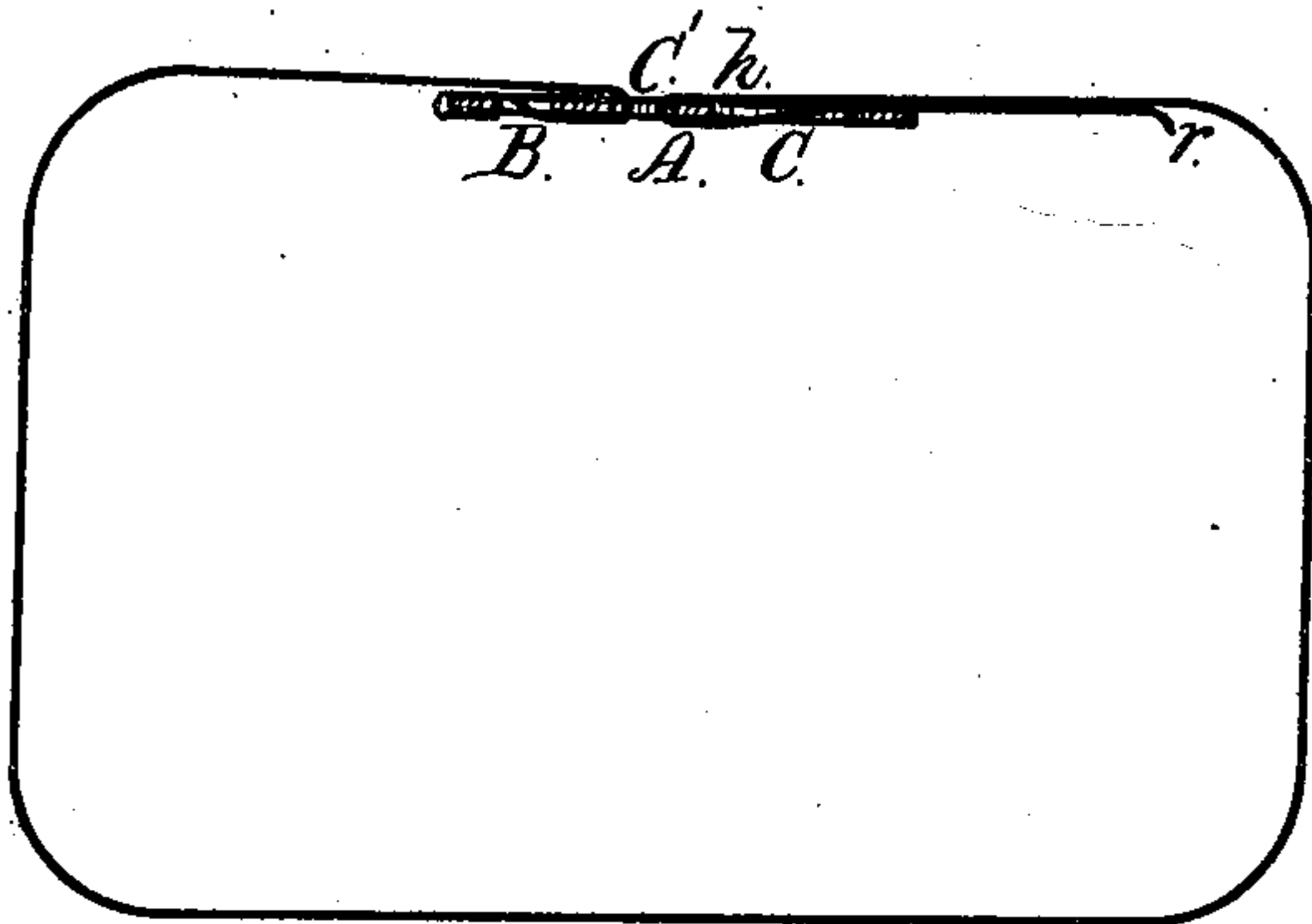


Fig. 2.



Witnesses.

DeRemon
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J. H. GOOCH, OF CHERAW, SOUTH CAROLINA.

Letters Patent No. 77,277, dated April 28, 1868.

IMPROVED COTTON-BALE TIE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. H. GOOCH, of Cheraw, in the district of Chesterfield, and State of South Carolina, have invented a new and improved Bale-Tie; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is a vertical longitudinal section through the centre of the hoop and buckle.

This invention relates to that class of bale-ties in which the ends of the hoop are secured in a single slotted plate, and consists in so forming the slots and tongues of the plate that the hoop can be more easily attached and fastened than by any other tie, and that, when once fastened, it cannot be untied, and will not be liable to fracture.

In the drawings, A represents the metallic plate which forms the body of the tie, across the upper side of which is a depressed bed, *a*, for the hoop to lie in. This plate is slotted at B and C C', as shown in the drawings, leaving the sides of the plate connected by the bars *c*, *c*¹, and *c*², and almost connected by two tongues, *m* and *n*, which project nearly across the slot C C', so that their ends almost meet.

The length of the slot B is equal to the width of the hoop, but the slot C C' is of larger dimensions, extending beyond the wall of the depression *a* into the side of the tie at two points *e e'*, so as to form an angular recess at each point, the inclined sides of the angle being shown at *i i'*.

The plate being thus formed, the connection between the ends of the hoop, when the latter is applied to the bale, is effected as follows:

I first pass one end of the hoop over the bars *c c*¹, and down through the part C' of the other slot, then under the bar *c*¹, then up through the slot B, then over the bar *c*, then down behind, and then forward under said bar *c*, as shown clearly in fig. 2.

This forms a very secure attachment on that side of the tie, which will hold as long as the hoop itself will hold.

One end of the hoop H being thus fastened to the plate, the hoop is placed around the bale, and the other end of it is doubled back at the proper point, as shown at *r*, forming a loop or bight, *h*. The lower right-hand edge of this loop is slipped under the tongue *m*, the latter entering between the two walls of the loop. The loop is thus forced upon the tongue until its left-hand edge clears the small tongue *n*, at which point the right-hand edge of the loop will have been forced up the incline *i*, and will rest at the end of the recess *c*. When the loop has reached this position, the operator relaxes his hold, and allows the expansion of the bale to draw the loop back down the incline till its edges rest securely against the tongues *m* and *n*; or he may first draw the loop back to this position, and then relax his hold of it.

The hoop will thus be firmly tied to the bale, and the tighter the latter may have been compressed, the stronger will be the fastening of the ends of the hoop. The groove or depression *a a* protects the hoop from coming in contact with spikes in the wharf, &c., by which it might be cut or torn so as to be rendered useless.

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

The plate A, constructed with the depression *a a*, the bars *c c*¹ *c*², the tongues *m n*, and the slots B and C C', the latter slot being constructed with the recesses *e e'*, having the inclined edges *i i'*, and the whole apparatus operating substantially in the manner and for the purposes set forth.

To the above specification of my improvement, I have signed my hand, this twenty-sixth day of February, 1868.

J. H. GOOCH.

Witnesses:

W. L. T. PRINCE,

T. SILES.