

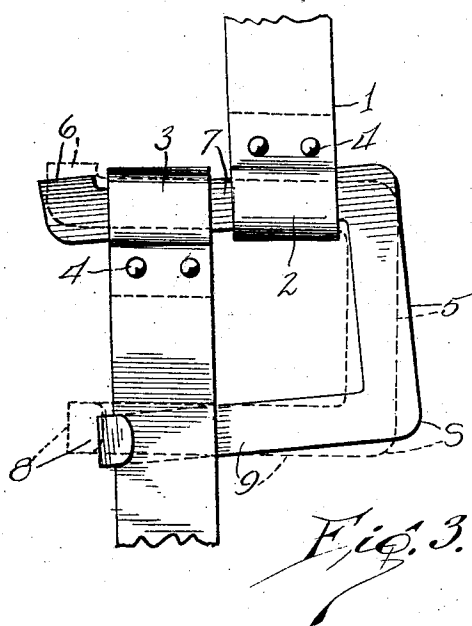
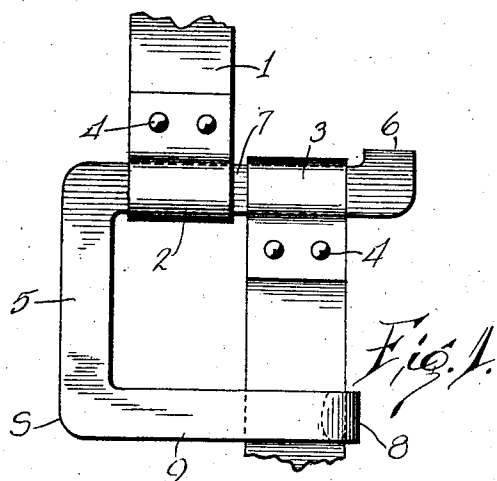
April 8, 1924:

J. P. CROSS ET AL

1,489,427

COTTON BALE TIE

Filed May 9, 1923



INVENTORS
J. P. Cross
T. C. Cross
BY *Munn & Co*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JAMES PERRY CROSS AND THOMAS C. CROSS, OF CROSS PLAINS, TEXAS.

COTTON-BALE TIE.

Application filed May 9, 1923. Serial No. 637,869.

To all whom it may concern:

Be it known that we, JAMES P. CROSS and THOMAS C. CROSS, both citizens of the United States, and residents of Cross Plains, in the county of Callahan and State of Texas, have invented a new and useful Improvement in Cotton-Bale Ties, of which the following is a full, clear, and exact description.

Our invention relates to improvements in buckles, and more particularly that type of buckle used to fasten the ties on a bale of cotton, and it consists in the combinations, constructions, and arrangements herein described and claimed.

15 An object of our invention is to provide a buckle of the character described which may be quickly and easily applied without the use of special tools or jigs.

20 A further object of our invention is to provide a buckle of the character described which becomes more secure in its fastening as the strain upon the ties is increased.

25 A further object of our invention is to provide a buckle of the character described which may be released from engagement with the ties by striking a portion thereof with a hammer.

30 A further object of our invention is to provide a buckle of the character described that is constructed entirely of one piece of metal, which is durable, and which is thoroughly practical commercially.

35 Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claim.

Our invention is illustrated in the accompanying drawings, forming part of this application, in which—

40 Figure 1 is a front elevation of an embodiment of our invention,

Figure 2 is an end elevation of the structure illustrated in Figure 1, and

45 Figure 3 is a rear elevation of the structure illustrated in Figure 1.

50 In carrying out our invention, we make use of a tie band 1. There are a plurality of these tie bands used on a single bale of cotton and are placed about the bale when the bale is in a highly pressed condition. The band 1 (see Figure 1) has its opposite ends 2 and 3 arranged in such a manner as to provide a loop. This is ordinarily done by bending back a portion of the extremities of the ends 2 and 3 and riveted, or otherwise fixing the bent back portions

against movement away from one another. In the present embodiment of our invention, we have shown rivets 4 employed for this purpose.

60 Our improved buckle consists in a substantially U-shaped member 5 of a hard metal. This U-shaped member 5 has a laterally extending portion 6 upon one of its legs 7 thereof, and a hook-shaped member 8 at the extremity of the opposite leg 9. The hook member 8, as reference to Figures 2 and 3 will show, is formed by bending a portion of the leg 9 back upon itself and leaving a slight space between the adjacent sides of the leg in the bent portion, so that that portion 10 of the tie band 1 immediately adjacent the end 3, may be partially encompassed by the hook member.

75 From the foregoing description of the various parts of the device, the operation thereof may be readily understood. In employing our improved buckle, it is first necessary to compress the bale of cotton or other material which it is desired to tie. The tie band 1 is thereupon fixed in place about the bale so that the loops formed at the ends 2 and 3 are in registration with one another. The leg 7 of the U-shaped member 5 is thereupon projected through the first loop at the end 2 and subsequently through the loop at the end 3 of the tie band.

80 The U-shaped member 5 is then moved so that the hook-shaped member 8 partially engages with the outer edge 11 of the end 3 of the tie band 1, as shown in Figures 1 and 2. The buckle is thereupon fastened and when pressure upon the bale is released, the buckle will securely hold the ends 2 and 3 of the tie band 1 in close proximity with one another in the position shown in Figure 1.

85 When it is desired to release the buckle and free the ends 2 and 3 of the tie band 1 from one another, it is merely necessary to strike the U-shaped member 5 at a point on its outer edge marked S, whereupon the U-shaped member will assume the position shown in dotted lines in Figure 3, it having previously been disposed in the position shown in full lines in Figure 3. The operator may become skilled in the striking of the portion S of the U-shaped member 5, so that at the same time the U-shaped member is struck with the hammer, the side 9 of the U-shaped member will move away from the portion 10 of the band 1 and the strain upon the band by virtue of the expanding cotton,

will cause the U-shaped member to be swung in such a position that the leg 7 may be easily moved longitudinally out of engagement with the loops at the ends 2 and 3 of
5 the tie band.

We claim:

The combination with a bale tie band having cooperating ends, of a substantially flat rigid U-shaped member, one leg of said
10 U-shaped member being arranged to engage with each of the ends of said tie band, said

leg having a laterally extending lug at the end thereof to prevent unintentional dislodgement of said ends from said leg, the remaining leg of said U-shaped member being provided with a hook portion having
15 its work engaging wall with the adjacent lateral edge of the adjacent end of said tie band, said hook being disposed at the outermost end of said remaining leg.

JAMES PERRY CROSS.
THOMAS C. CROSS.