

M. R. Clark,

Bole Tie.

No. 108,450.

Patented Oct. 18, 1870.

fig. 1.

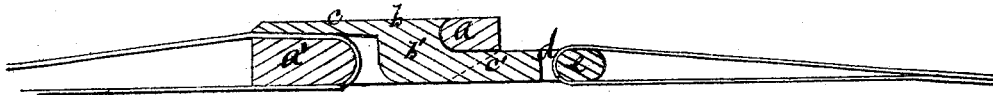
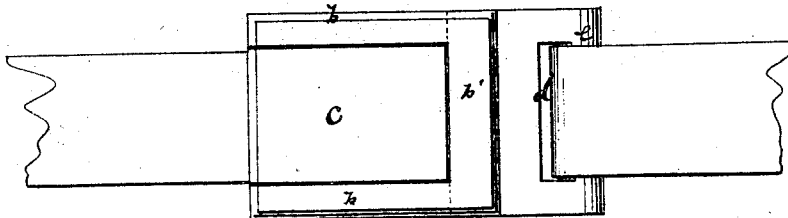


fig. 2.



Witnesses:

Victor Hagmann
Chas. W. Pettit

Inventor:

M. R. Clark
per Messrs. H. C.
Attorneys.

UNITED STATES PATENT OFFICE.

MICHAEL R. CLARK, OF COLUMBIA, SOUTH CAROLINA.

IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. **108,450**, dated October 18, 1870.

To all whom it may concern:

Be it known that I, MICHAEL R. CLARK, of Columbia, in the district of Richland and State of South Carolina, have invented a new and Improved Cotton-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 accompanying drawing, making a part of this specification, in which—

Figure 1 is a sectional elevation, showing the ends of the band in position, the tie being compressed; and Fig. 2 is a plan view of the same.

This invention has for its object to enable the bands of a cotton-bale to be tied in such a manner that all the compression given to the bale by the press shall be preserved by the bands, and the bale, on being removed from the press, shall not be able to expand to any appreciable degree.

The invention consists in the combination, with a main loop, of a lever furnished with a lesser loop, in such a manner that one end of the band may be tightly clamped between the lever and main loop, and the other end of the band be drawn, by any suitable mechanical means, through the lesser loop on the lever, until the band embraces the bale as closely as it can be drawn, when the band is properly secured to the lesser loop.

In the drawing, *a* is the main loop, and *b* the lever. The lever at the part *b'* is of the same thickness as the loop, and of such a width as to enter easily within it, the part *b'* occupying a position between the two end rails of the loop. From the lower side of the part *b'* a thin plate, *c*, projects in one direc-

tion, and from its upper side projects in exactly the reverse direction, and parallel to the plate *c*, a thicker plate, *c'*, in which is made the lesser loop *d*, the plate *c'* being of the same width as the main loop. The loop *c* is of such a length that its outer end is flush with the adjacent end of the main loop when the plate lies in the recess made for its reception in the under side of the end rail, *a'*.

In baling, one end of the band is bent under and passed between the plate *c* and the rail *a'*, through the recess in the latter. The band is then brought around the bale, and its other end run upward through the lesser loop *d*, and its end attached to a hand-lever in the ordinary manner, and by this means drawn downward around the rail *e* with all necessary force. This pressure at once clamps the other extremity of the bale tightly between the plate *c* and the rail *a'*, and is to be continued until the band is drawn as tightly about the bale as the latter allows. Then the band is secured to the rail *e*, and the bale will be found to be bound so tightly, if the foregoing operation be properly performed, that it will not expand on being removed from the press.

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

The main loop *a*, provided with the rail *a'*, and combined with the lever *b*, provided with the plates *c c'* and rail *e*, in the manner and for the purpose specified.

MICHAEL R. CLARK.

Witnesses:

J. LEE DIXON,
GEO. R. CAPERS.