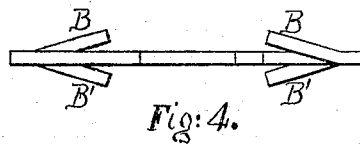
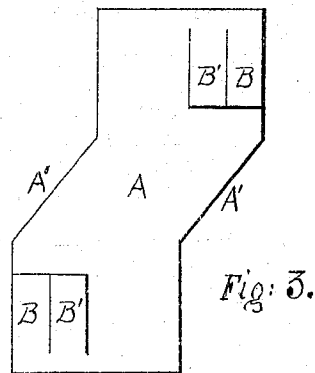
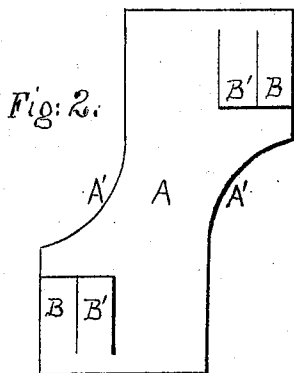
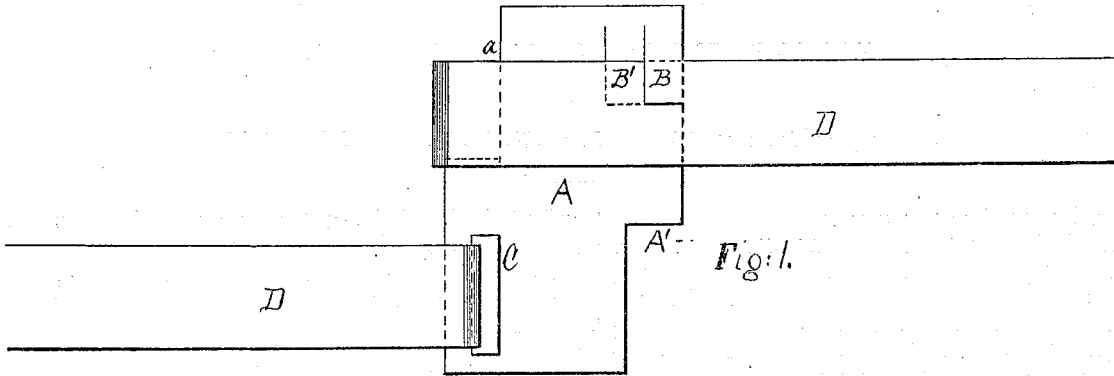


C. SWETT.

Improvement in Cotton-Bale Ties.

No. 129,190.

Patented July 16, 1872.



WITNESSES.

Edwin James.  
R. V. Gordon.

INVENTOR.

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Attorney.

# UNITED STATES PATENT OFFICE.

CHARLES SWETT, OF COPIAH COUNTY, MISSISSIPPI.

## IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. 129,190, dated July 16, 1872.

*To all whom it may concern:*

Be it known that I, CHARLES SWETT, of the county of Copiah and State of Mississippi, have invented certain new and useful Improvements in Bale-Ties, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing and to the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a plan view. Figs. 2 and 3 are modifications of Fig. 1. Fig. 4 is an edge view of Fig. 3.

My present invention is an improvement on the bale-tie embraced in and covered by my application filed June 18, 1872, and in which is distinctly claimed so cutting, punching, or otherwise forming a tie-plate as to leave a positive well-defined lip on each of its end sections.

In my present improvement—and this it is which constitutes the essence of the invention—I punch or otherwise stamp the plate with two lips on each end section instead of one as in my application before referred to. These lips are so inclined from the planes of the reverse or upper and lower faces of the plates as to leave a V-shaped or angular opening between the lips, which arrangement not only affords a most secure fastening, but one which permits of the oblate hook at the end of the band being secured either with its short or free end, turned out over the plate or down under the same, as in either case the hook end of the band is in like manner wedged in between the plate and the reverse lips, and this wedging of the hook in between the lips is what secures the fastening, and not the mere fact that the outer end of the hook is in contact with the bale, as in other ties.

The construction and operation of my invention are as follows:

A is the tie-plate, and is punched, stamped, or otherwise manufactured out of any suitable metal. This plate A may be rectangular in form, having recessed faces A', as shown in Fig. 1, or its center section may have curved edges A' A', as shown in Fig. 2, or inclined or angular, as shown in Fig. 3. B B' are two lips, which are cut at the end section of the plate, which is designed to secure the free end of the band. The permanent hook on the

end of the band D, or the one to which the tie-plate is secured when furnished to the trade, may be fastened in the ordinary oblong slot C, as shown in Fig. 1, or this slot may be dispensed with, and each end of the tie-plate be provided with lips B B', as shown in Figs. 2, 3, and 4. These lips are inclined from the planes of the upper and lower faces of the plate, as clearly shown in Fig. 4, so as to leave a V-shaped or angular opening between the same. The great advantage of this arrangement will readily suggest itself. The lips B B' afford a double bearing for the oblate hook on the end of the band D, the lip B pressing it on its upper section, and the lip B' on its lower, and thus serve, in connection with the plate, to so wedge the band in the acute angular recesses under the lip B and above the lip B' as to afford a most secure fastening, and one which is effected through the arrangement of the lips B B', and which does not require, for security of fastening, that the free or outer section of the oblate hook shall be turned under the plate, so as to be left in direct contact with the bale, as practical experience has fully demonstrated the fact that with a tie having reversed lips B B', as hereinbefore described, the outer section of the free end of the band D need not necessarily be turned under the plate, but may be turned over on top of the same, the body of the band being pressed by the lip B', and its outer section securely wedged in the recess under the upper lip B.

From the foregoing full and detailed description the operation of my improved tie will be readily understood. The tie-plate is furnished to the trade with the hoop attached either through the agency of the slot C or lips B B'. The hoops are arranged and the cotton compressed so as to reduce the bale to the desired bulk or dimensions in the usual manner. The free end of the band is then turned over so as to provide an oblate hook at the desired point. This hook is then slipped over the end of the plate and secured in the acute angular recesses left between the plate A and lips B B', the head of the hook resting and having its bearing on the seat *a* of the tie-plate.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The tie-plate A, having double or reverse inclined lips B B' on the opposite or upper and lower surfaces of said plate, the whole being constructed and arranged substantially as described, to provide a fastening for the band or hoop around the bale.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

CHAS. SWETT.

Witnesses:

EDWIN JAMES,  
JOS. T. K. PLANT.