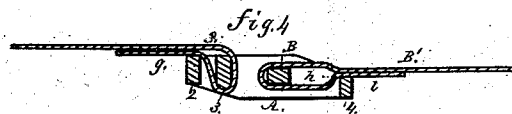
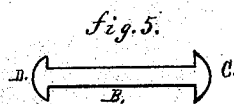
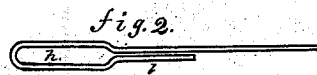
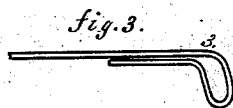
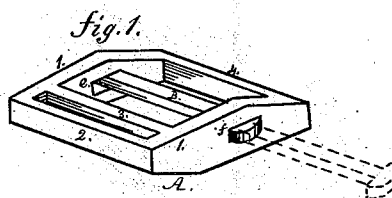


C. S. COLEMAN.

COTTON-TIES.

No. 187,599.

Patented Feb. 20, 1877.



Witnesses

James I. Johnston
A. C. Johnston.

Inventor

C. S. Coleman.

UNITED STATES PATENT OFFICE.

CHARLES S. COLEMAN, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF HIS RIGHT TO THEODORE F. COLEMAN, OF SAME PLACE.

IMPROVEMENT IN COTTON-TIES.

Specification forming part of Letters Patent No. **187,599**, dated February 20, 1877; application filed
September 4, 1876.

To all whom it may concern :

Be it known that I, CHARLES S. COLEMAN, of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Cotton-Ties; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in cotton-ties; and consists in the peculiar construction of the buckle used in combination with the band, as will hereafter more fully appear.

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

In the accompanying drawings, which form part of my specification, Figure 1 is a perspective view of the buckle. Figs. 2 and 3 represent sections of the band. Fig. 4 is a longitudinal and vertical section of the band and buckle, showing them arranged in juxtaposition with relation to each other. Fig. 5 represents the gib-bar of the buckle shown in Fig. 1.

In the drawings, A represents the buckle, consisting of side pieces 1, cross-pieces 2, 3, and 4, and a gib-bar, B, which is susceptible of being drawn out, as represented in dotted lines in Fig. 1. The gib-bar is furnished with a T-head, as indicated at C, the end D having a similar head, but smaller. The opening *e* in the side bar of the buckle is about equal in size to the head C of the gib-bar, the opening *f* in the other side bar of the buckle corresponding in size to the diameter of the gib-bar B, and just sufficiently large to allow the bar to be moved freely in it, so that it can be drawn out of the band or placed in it at the will of the operator. The ends of the band are bent, as represented in Figs. 2 and 3, the end 3 of the band being secured in the bar 3 of the buckle, with the bar 2 pressing upward against the part *g* of the band, as represented in Fig. 4. The operator places the end of the band represented in Fig. 2 within the aper-

ture of the buckle, between the bars 3 and 4, and then moves the gib-bar into the opening *h* of the band, and through opening *e* in the side of the buckle, and the expansion of the cotton in the process of baling will cause the shoulder of the head C to catch forward of the ends of the opening *e* of the buckle, thereby preventing the gib-bar B from moving sidewise. The bar 4 of the buckle will impinge against the part marked *i* of the band, so as to securely lock it and cause the strain to come upon the gib-bar B and bar 4, the strain upon the other end of the band being upon the bars 3 and 2. The gib-bar is secured in the side of the buckle in opening *f* by the casting process when the buckle is made of malleable cast-iron, or it may be secured in the buckle by forming the head D of the bar B by the riveting process.

By securing the gib-bar B in the buckle, as hereinbefore described, the bar will not be liable to be lost, and is always in convenient position for locking the tie.

A buckle constructed as hereinbefore described will be cheap, efficient, and durable, and well adapted to the baling of cotton.

Having thus described my improvement, what I claim as of my invention is—

1. The buckle A, consisting of side pieces 1, cross-pieces 2, 3, 4, having a gib-bar, B, susceptible of being moved sidewise in the buckle, substantially as herein described, and for the purpose set forth.

2. A buckle, constructed substantially as hereinbefore described, having a gib-bar, B, secured in one side of it, said bar being susceptible of being drawn to one side, substantially as herein described, and for the purpose set forth.

3. The buckle A, constructed substantially as herein described, and used in combination with the band B', as and for the purposes set forth.

C. S. COLEMAN.

Witnesses:

A. C. JOHNSTON,
A. S. H. JOHNSTON.