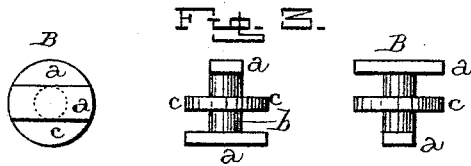
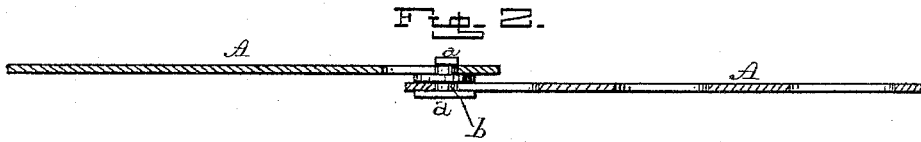
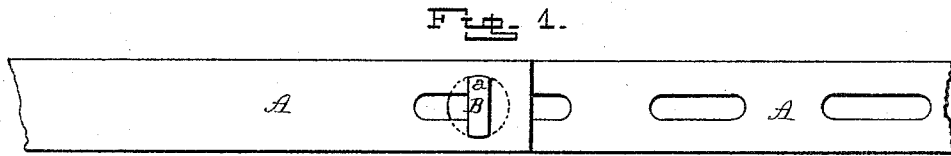


W. SILVESTER.
Bale-Tie

No. 210,970.

Patented Dec. 17, 1878.



Witnesses:

J. W. Garner
H. D. Kaines

Inventor:

Wm. Silvester,
per
O. A. Lehmann,
att'y

UNITED STATES PATENT OFFICE.

WILLIAM SILVESTER, OF PITTSBURG, ASSIGNOR TO HUGH McDONALD, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **210,970**, dated December 17, 1878; application filed July 9, 1878.

To all whom it may concern:

Be it known that I, WILLIAM SILVESTER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Bale-Ties; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to an improvement in bale-ties; and it consists in connecting the ends of a metal band by means of a button or stud inserted through holes in the metal, and constructed in a manner to be readily applied and as readily removed to release the bale, without any risk of losing its hold of itself, as will be fully described hereinafter.

The accompanying drawing represents my invention.

A represents the band to form a bale-tie, made of any material suitable to the purpose. Near one end of the band is an oblong hole, sufficiently large for the passage and retention of the head of the button B, and at the other is a series of similar holes, distributed at a distance from each other, to lengthen or shorten the tie to suit the size of the bale.

The button B, which serves to fasten together the ends of the band, consists of two heads, *a*, connected by a neck or wrist, *b*, around the middle of which, at an equal dis-

tance between the two heads, is secured a washer, *c*, of the thickness of the band. The space on either side between the heads and the washer is a little wider than the thickness of the material of which the tie is to be made, to admit the band readily when the button is inserted.

The heads of the button are oblong and stand at right angles to each other, that, when one of them is inserted into a hole of the band, the button has to be turned sidewise before a hole in the other end can receive the remaining head. By this means the head first put through forms a lock, standing across and overlapping the hole, and the one last passed through is held in place by the tension of the bale.

Having thus described my invention, I claim—

In a cotton-bale tie, a button, B, consisting of the neck *b*, having the two cut-away heads *a*, extending in opposite directions, and the washer *c* in the middle of the necks, in combination with the band A, having slots cut in its ends, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of June, 1878.

WILLIAM SILVESTER.

Witnesses:

J. J. McCORMICK,
T. F. LEHMANN.