

(No Model.)

J. WARRINGTON.

CLOTH FASTENING DEVICE FOR BOLTING REELS.

No. 515,509.

Patented Feb. 27, 1894.

Fig. 1.

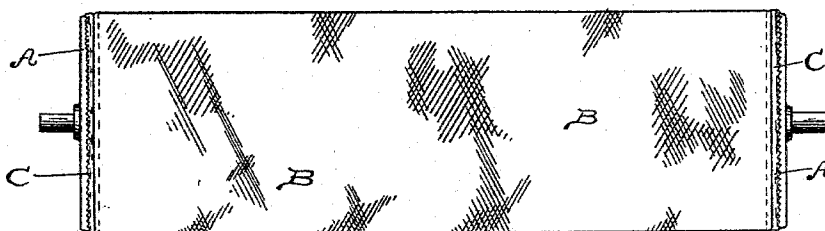
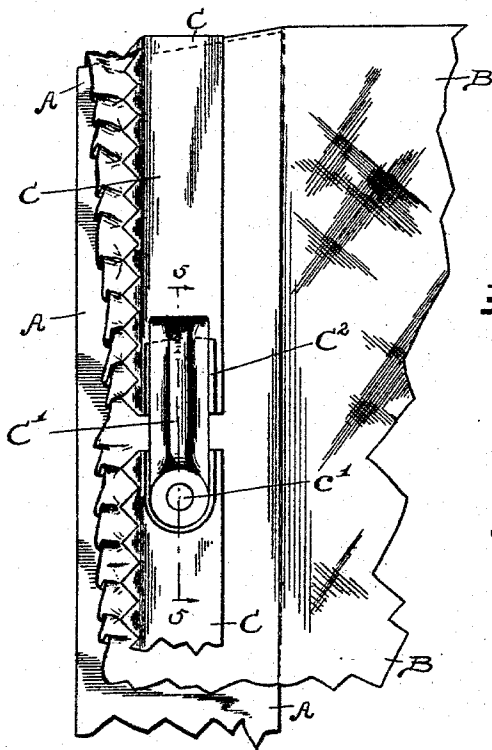


Fig. 2.



WITNESSES:

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Fig. 3.

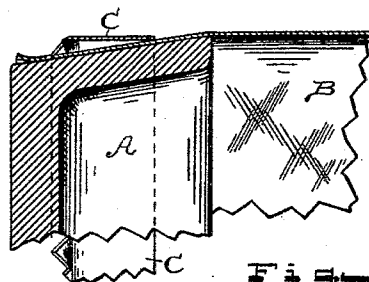


Fig. 4.

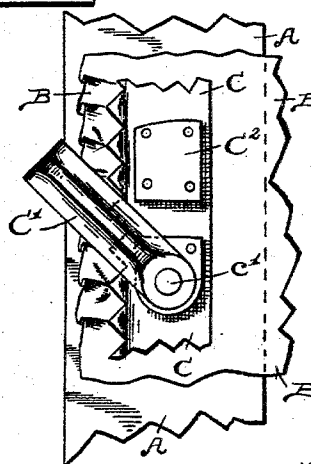
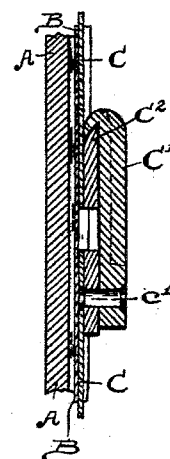


Fig. 5.



INVENTOR

Jesse Warrington,

per

Chester Bradford,
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UNITED STATES PATENT OFFICE.

JESSE WARRINGTON, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF
TO THE NORDYKE & MARMON COMPANY, OF SAME PLACE.

CLOTH-FASTENING DEVICE FOR BOLTING-REELS.

SPECIFICATION forming part of Letters Patent No. 515,509, dated February 27, 1894.

Application filed December 28, 1892. Serial No. 456,578. (No model.)

To all whom it may concern:

Be it known that I, JESSE WARRINGTON, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Cloth-Fastening Devices for Bolting-Reels, of which the following is a specification.

The object of my invention is to produce a means whereby the bolting cloth can be secured to the heads of bolting-reels in such a manner that it can be easily and quickly drawn taut, and as easily and quickly released for removal.

Said invention will be first fully described and then pointed out in the claims.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of the bolting reel provided with my invention; Fig. 2 a detail elevation, showing a fragment of the end, with the cloth and band, substantially full size; Fig. 3 a detail sectional view of the same parts shown in Fig. 2; Fig. 4 a detail plan view, similar to a portion of Fig. 2, but with the hook or clasp swung to one side, and Fig. 5 a detail sectional view on the dotted line 5 5 in Fig. 2.

In said drawings the portions marked A represent the head of the reel; B the cloth thereon, and C the band or hoop by which the cloth is secured in place. The heads A are tapered from the point where the cloth first comes in contact therewith toward the outer ends, as shown most plainly in Figs. 2 and 3. Said heads are usually of cast iron, but may, of course, be formed from any material desired. The bolting cloth B, is the same as usually used on bolting reels. It extends between the two heads and over the same, down the inclines thereon, as shown. The bands or hoops C are a little less in circumference than the largest portions of the heads A. They extend around said heads outside of the cloth and serve to hold the cloth tightly onto said heads. The outer edges of said bands or hoops are shown as provided with teeth or serrations, which teeth are bent downwardly and come in contact with the cloth near its extreme edge. Other means of increasing

friction or adhesion may be used, however, if desired. At the point where the two ends of the hoop or band comes together, it should be provided with a hook C', pivoted to one end of said hoop by a pivot c', and at the other end with a catch C² with which the hook engages, as shown most plainly in Fig. 4. The end of this catch C² should be rounded somewhat, and the circle struck from a point slightly to one side of the pivot c' so that when the hook is swung around into engagement therewith, it will act as a cam, and pull the two ends of the hoops slightly toward each other, thus causing it to have a clamping force upon the head of the reel. By having a fastening of this character the hook is much more easily loosened or disengaged to permit the removal of the cloth.

In using my invention the cloth is first secured upon the heads in the ordinary manner, and the hoops C are then placed thereon and secured together as has just been described. The cloth may then be adjusted, by taking hold of the edges thereof which project outside the hoops, and pulling upon them, thus pulling them through the hoops until the desired tension is obtained. The head being formed at an incline, the natural tendency of the tension of the cloth is to draw upon the hoops somewhat, and clamp said cloth more securely between the heads and the hoops than would otherwise be the case. The points of the teeth, or serrations, while not intended to penetrate the cloth, will engage therewith to some extent, and aid in holding it in place.

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

1. The combination, in a bolting reel, of the bolting cloth, the heads on which the same is mounted, which heads are tapered or inclined and are smallest on the extreme outer edges, hoops mounted thereon having serrations or teeth bent downwardly into contact with the cloth, whereby said cloth may be secured in place, and easily disengaged, all substantially as shown and described.

2. The combination, in a bolting reel, of the bolting cloth, the heads on which the cloth is mounted, having tapered or inclined surfaces

to receive the cloth, and formed with the
smaller diameter outside the point where the
cloth comes in contact therewith, and hoops
smaller than the largest diameter of the heads
5 and provided with adhesive surfaces or por-
tions adapted to bear upon or come in con-
tact with the cloth.

In witness whereof I have hereunto set my
hand and seal, at Indianapolis, Indiana, this
16th day of December, A. D. 1892.

JESSE WARRINGTON. [L. S.]

Witnesses:

CHESTER BRADFORD,
JAMES A. WALSH.