R. W. FENWICK.

FASTENING FOR METALLIC BANDS FOR COTTON BALES.

No. 30,133. Patented Sept. 25, 1860.

Fig. 1

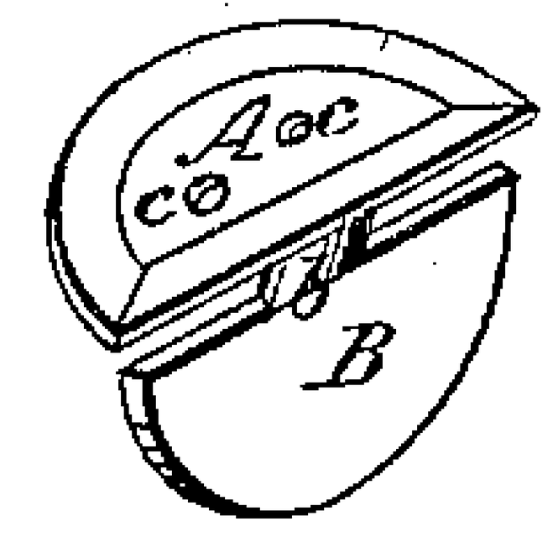


Fig. 2.

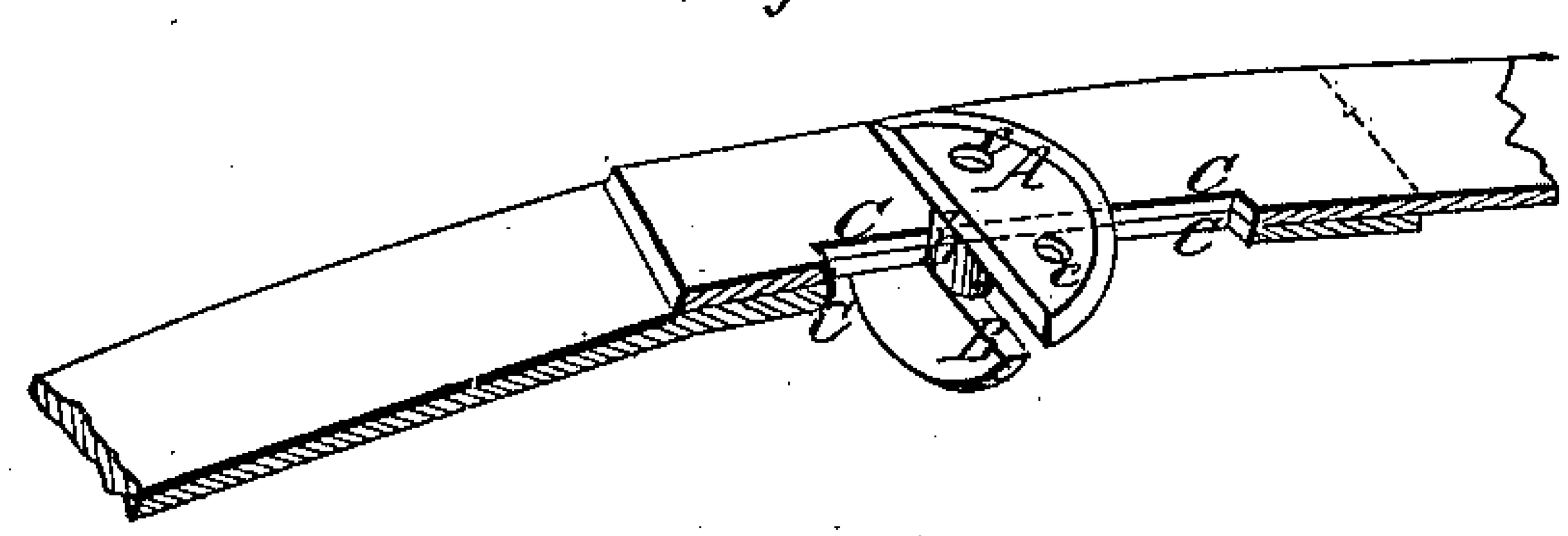


Fig. 3.

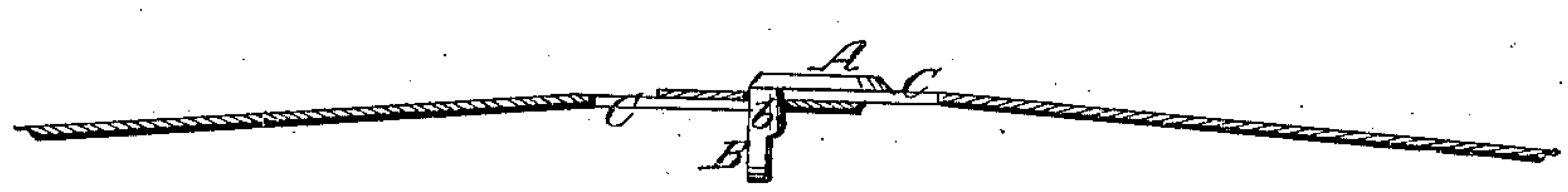


Fig. 4.

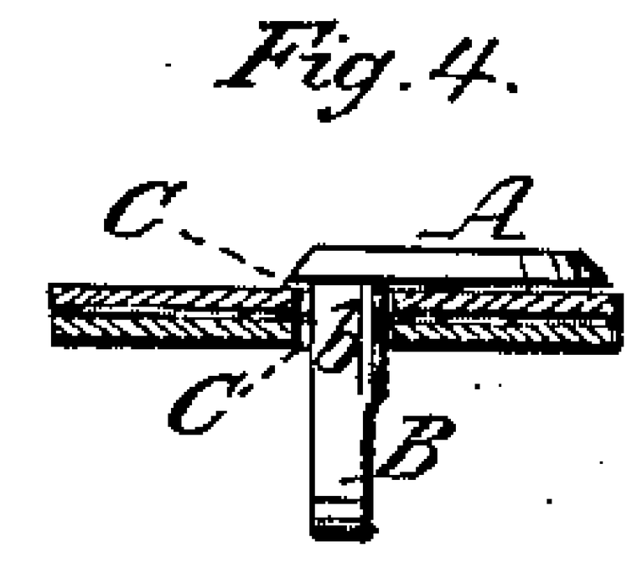
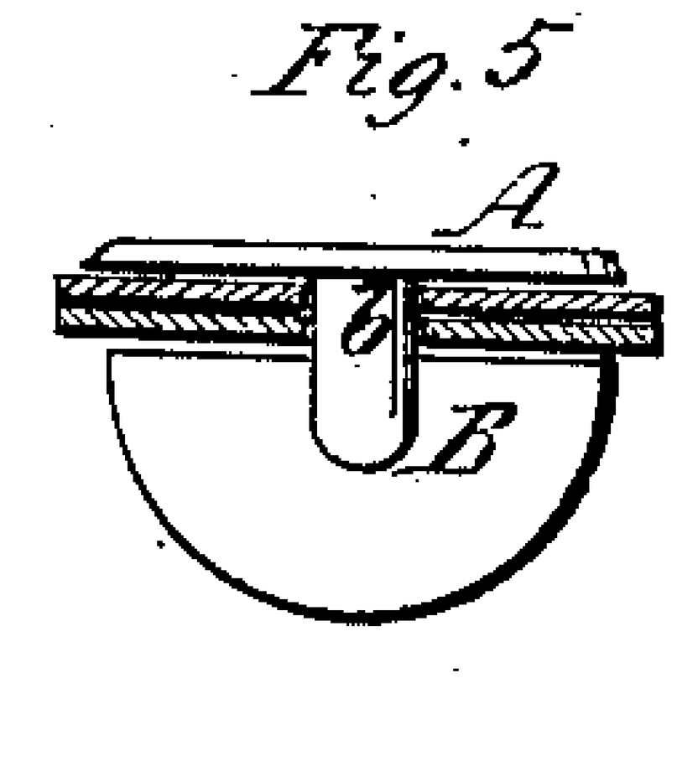


Fig. 5



Witnesses.

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UNITED STATES PATENT OFFICE.

ROBERT W. FENWICK, OF WASHINGTON, DISTRICT OF COLUMBIA.

METALLIC BANDS FOR COTTON-BALES.

Specification forming part of Letters Patent No. **30,133**, dated September 25, 1860.

To all whom it may concern:

Be it known that I, ROBERT W. FENWICK, of the city and county of Washington, in the District of Columbia, have invented a new and useful Improvement in Fastenings for Metallic Bands for Cotton-Bales; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of my improved turn-button fastening. Fig. 2 is a perspective sectional view of the same applied to the two slotted ends of a metallic band for a cotton bale. Fig. 3 is a longitudinal section through the slots and turn-button. Fig. 4 is a transverse section of the two ends of the band and turn-button in a position ready to be fastened, and Fig. 5 is a section of the same as fastened.

Similar letters of reference in each of the several figures indicate corresponding parts.

The nature of my invention consists in a turning fastening for metallic bands for cotton bales made or cast in the form of a right angle or a compound of two right angles, and with a slot at each side of and a little below the corner of the two meeting lines forming the angle or angles, so that the inner or under portion of the fastening, when applied, will stand at right angles to the inner surface of the metallic band, and the outer or upper portion run parallel to the outer surface of the same, and also that the upper and lower portions may be turned at right angles to slots provided in the ends of the metallic band, as and for the purposes hereinafter described.

The gist of my invention lies in having the upper portion of the fastening rest flat down upon the metallic band and extend longitudinally some distance over the slots in the band. The lower portion may run down slightly oblique instead of vertical. It, however, is better to have it vertical.

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

To make my fastening take angle or T-iron and cut a slot, *a*, on each side and a little below the corner of the two meeting lines or portions A B forming the angle or angles. These slots should be deep enough to admit the thickness of the two ends of the metallic band when overlapping one another, and should extend on each side to within about one-eighth of an inch of the center of the fastening, so that they shall be divided by a shank or axial pivot, *b*, about one-quarter of an inch in diameter.

Instead of using angle or T-iron, the fastening may be cast in a malleable state in the form and with the slots and axial pivot all complete.

To apply the fastening each end of the metallic band must have cut in it an oblong slot, C, of a little greater width than the thickness of the axial pivot or shank *b*, and of a little greater length than the lower portion, B, of the fastening, and the two ends of the hoop thus slotted must be drawn toward each other and one brought under the other until or so that the slots come opposite one another. At this stage the fastening is introduced as follows: Adjust the fastening so that its corner or angle runs parallel with the slots, then pass the portion B down through the slot until the portion A bears against the outer surface of the metallic band. At this stage turn the fastening until its corner or angle lies transversely to the slot. Care should be taken to have the upper portion, A, of the fastening extend over the slots of the metallic band in a direction with the strain, so that the strain of the band shall cause said portion A of the fastening to bind firmly against the metallic band, and thus prevent oblique strain from coming upon the axial pin or shank. This precaution, however, is not necessary when the fastening is made of T-iron or cast so as to form a compound of two right angles.

In order that the fastening may be readily turned when it is desired to take off the bands, one or two holes, *c c*, for the insertion of the pin or pins of a lever, are provided in the top portion, A, as represented.

The fastening herein described is very cheap and convenient of application, and while it presents within the circle of the band a deep projection, B, for the elastic cotton to surround and prevent it from turning of itself to the unfastening position, it presents outside of the circle of the metallic band a very slight projection, and thus not only is it a perfectly secure fastening, but it is also a fastening free

from the great objection urged against many of the fastenings which have preceded it—viz., of presenting projections on the outside of the band which interfere with the rolling of the cotton-bale and which are liable to break off and allow the band to spring open.

What I claim as my invention, and desire to secure by Letters Patent, is—

The fastening substantially as herein described for metallic bands for cotton-bales.

ROBT. W. FENWICK.

Witnesses:
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