

(No Model.)

O. P. FANNIN.
BALE TIE.

No. 278,787.

Patented June 5, 1883.

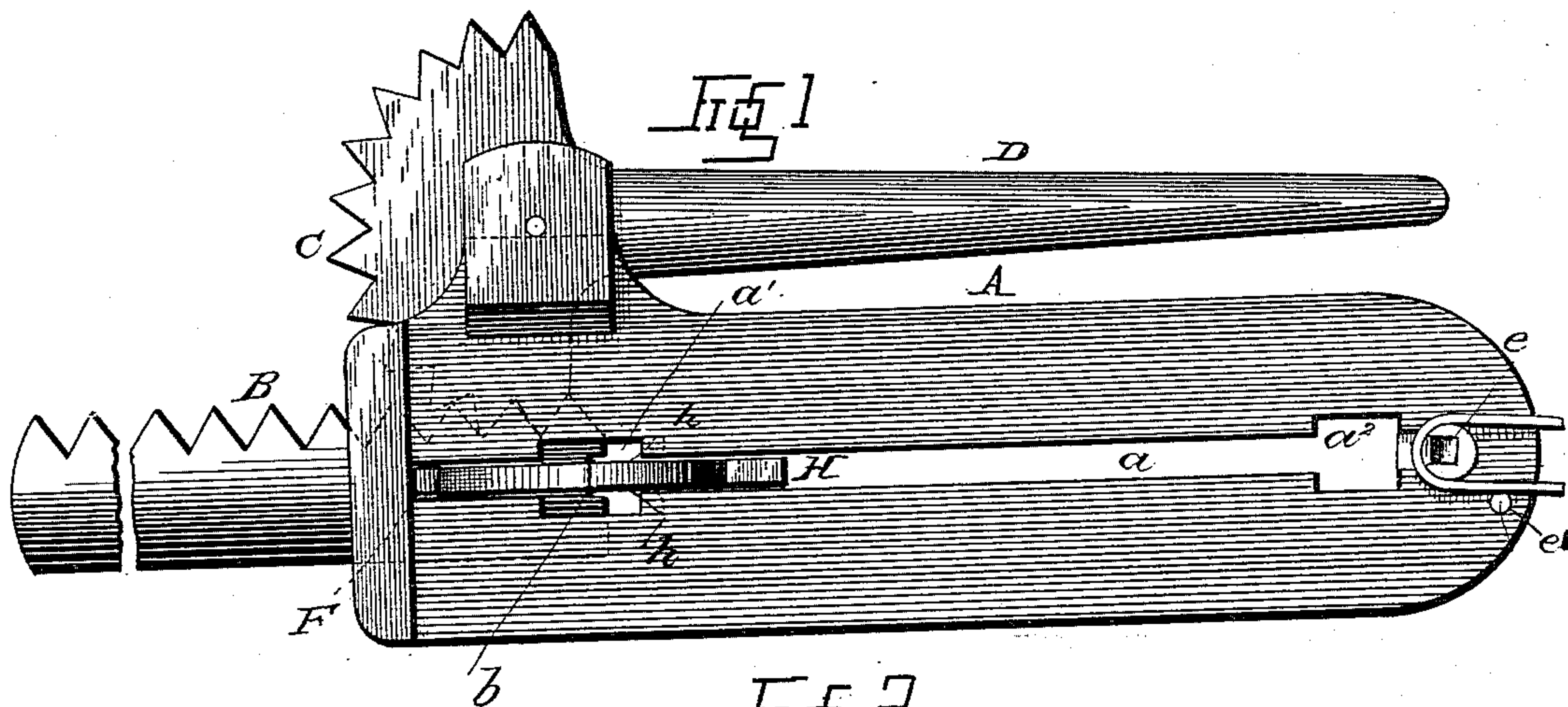


Fig 1

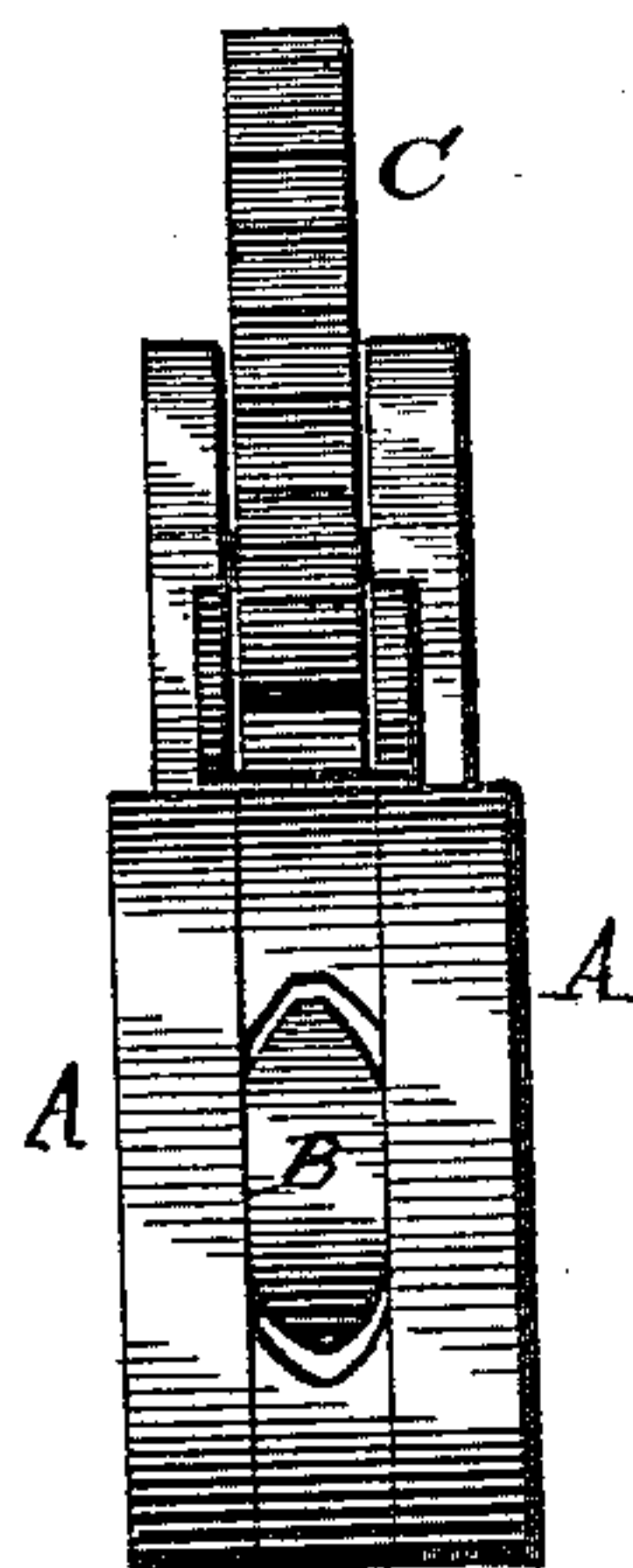


Fig 2

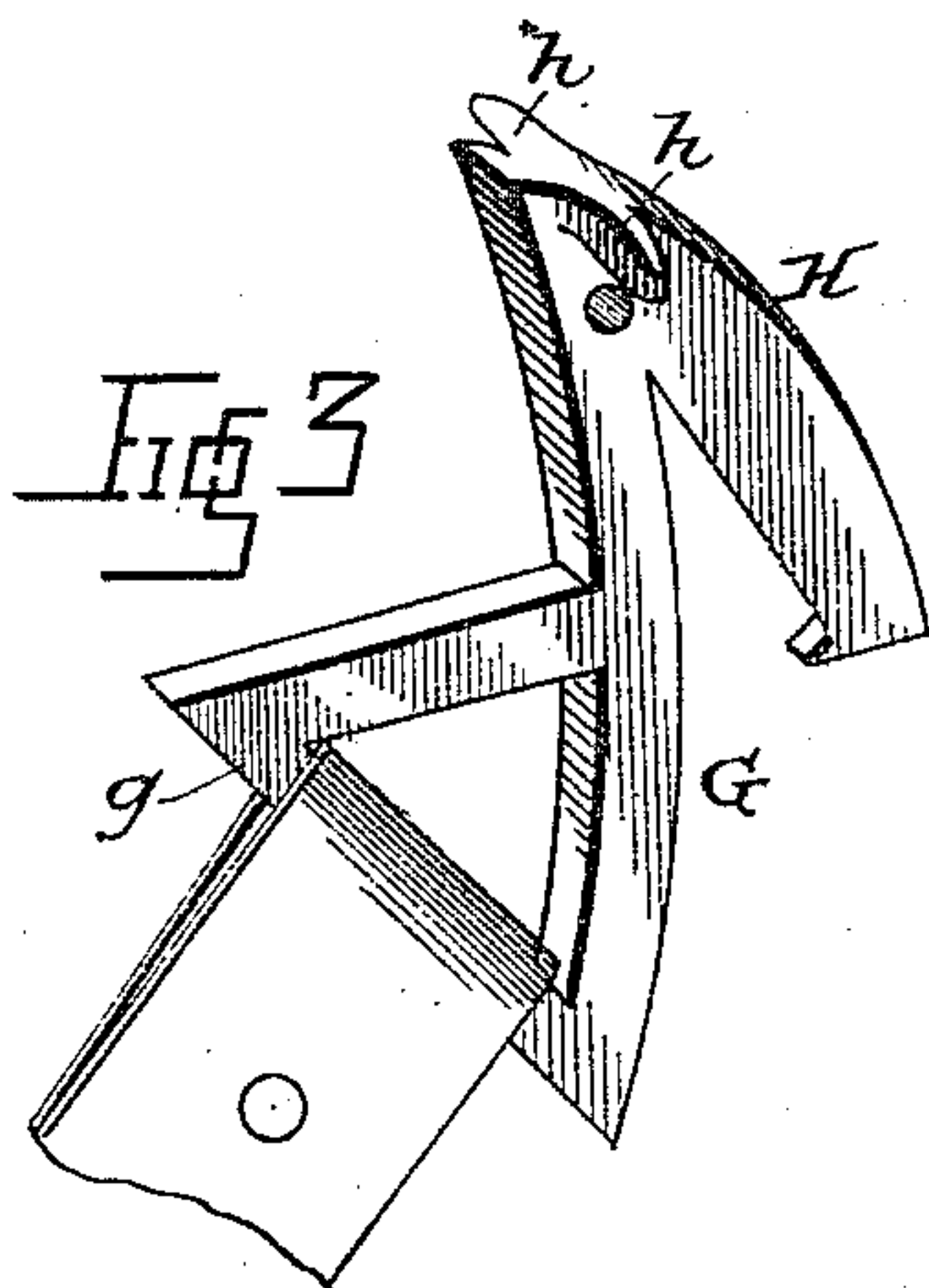


Fig 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

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BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 278,787, dated June 5, 1883.

Application filed February 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, OLIVER P. FANNIN, a citizen of the United States, residing at West Wynnnton, in the county of Calhoun and State of Florida, have invented certain new and useful Improvements in Bale-Ties, of which the following is a full, clear, and exact description.

In the drawings, Figure 1 represents a front elevation of the improvement; Fig. 2, a side elevation of same, and Fig. 3 a detail view of the buckle.

This invention is an improvement upon that set forth in Letters Patent No. 267,853, granted me November 21, 1882.

The object of this improvement is to prevent the buckle from slipping out of place while the bale-band is being tightened.

The invention consists, first, in providing the band-tightener with a longitudinal slot of the same width as the edge of the buckle, said slot being enlarged at either end for the purposes hereinafter specified; second, in providing one of the spurs of the buckle with shoulders, whereby when said buckle is inserted in the tightener it is held in position during the tightening of the band, as hereinafter set forth.

A represents the body of the band-tightener, provided with a longitudinal slot, *a*, of a general width similar to that of the edge of the buckle. Said slot *a* has, however, at either end enlargements *a'* *a''*, for the purposes hereinafter specified. A toothed rack, B, slides in grooves formed in the sides of the slot *a*, and is actuated by a toothed sector-plate, C, pivoted in the body A and forming the short arm of a lever, D. In the extremity of the rack B a notch is formed to aid in holding the buckle in place, and near the extremity, and on opposite sides of the rack B, are two studs, F, against one of which the buckle rests when inserted on either side of the body of the tightener. On each side of the body of the tightener, near one end, and in line with the longitudinal slot *a*, are slotted posts *e*. The slot is continued in a curve some distance within the body A, and forms a guide for the free end of the buckle. Around one of the

slotted posts *e*, according to the side on which the buckle is inserted, the free end of the bale-band is turned, and is there held in place by one of the posts *e'*, situated in rear of slotted posts *e*.

G is the Z-shaped buckle, having one of its ends connected with the stem by an oblique bar, *g*. Upon the spur H of said buckle are formed shoulders *h*, which, when the buckle is inserted through the enlargement *a'* of the slot *a*, extend on either side beyond the sides of the said slot *a*, and prevent the band while being tightened from drawing the buckle out of position.

The operation of my improvement is as follows: The rack B is drawn backward by means of the lever D until its extremity is beyond the enlargement *a'* of the slot *a*. The shouldered spur H of buckle G is then thrust through said enlargement *a'* until the back of the buckle is in contact with the rack B. By this movement one end of the buckle is brought in contact with and rests against the stud F. The free end of the band is then given a turn around the post *e* and carried back upon the same side of post *e'* as that which the band occupies. The rack B is then slid forward by means of the lever, and the shoulders of the spur H, resting against the edges of the slot *a*, prevent the buckle from being drawn out of the tightener. When the free end of the buckle reaches the curved slot in the body A and post *e* the shouldered spur H will have reached the enlargement *a''*, and the pressure of said free end upon the curved slot, as well as the tension of the band, will force said free end up through the slotted post *e* and within the loop of the band, thereby causing the engagement of said buckle and band and freeing the buckle from engagement with the tightener.

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

1. In a band-tightener, the combination, with the rack-bar and means for operating same, of the body A, provided with longitudinal slot *a*, having enlargements *a'* *a''* at either end, substantially as and for the purposes described.

2. The **Z**-shaped buckle G, having its spur H provided with shoulders *h*, substantially as and for the purposes described.

3. The combination, with a band-tightener
5 having longitudinal slot *a*, provided with enlargements *a'* *a''*, of the **Z**-shaped buckle G, provided with shoulders *h*, substantially as de-

scribed, whereby the buckle is prevented from escaping from the tightener while the band is being tightened, as set forth.

OLIVER P. FANNIN.

Witnesses:

JOHN SIMMONS,
J. H. MUSE.