

No. 865,611.

PATENTED SEPT. 10, 1907.

I. O. ROBBINS.
ELEVATOR BUCKET.
APPLICATION FILED MAY 3, 1907.

Fig. 1.

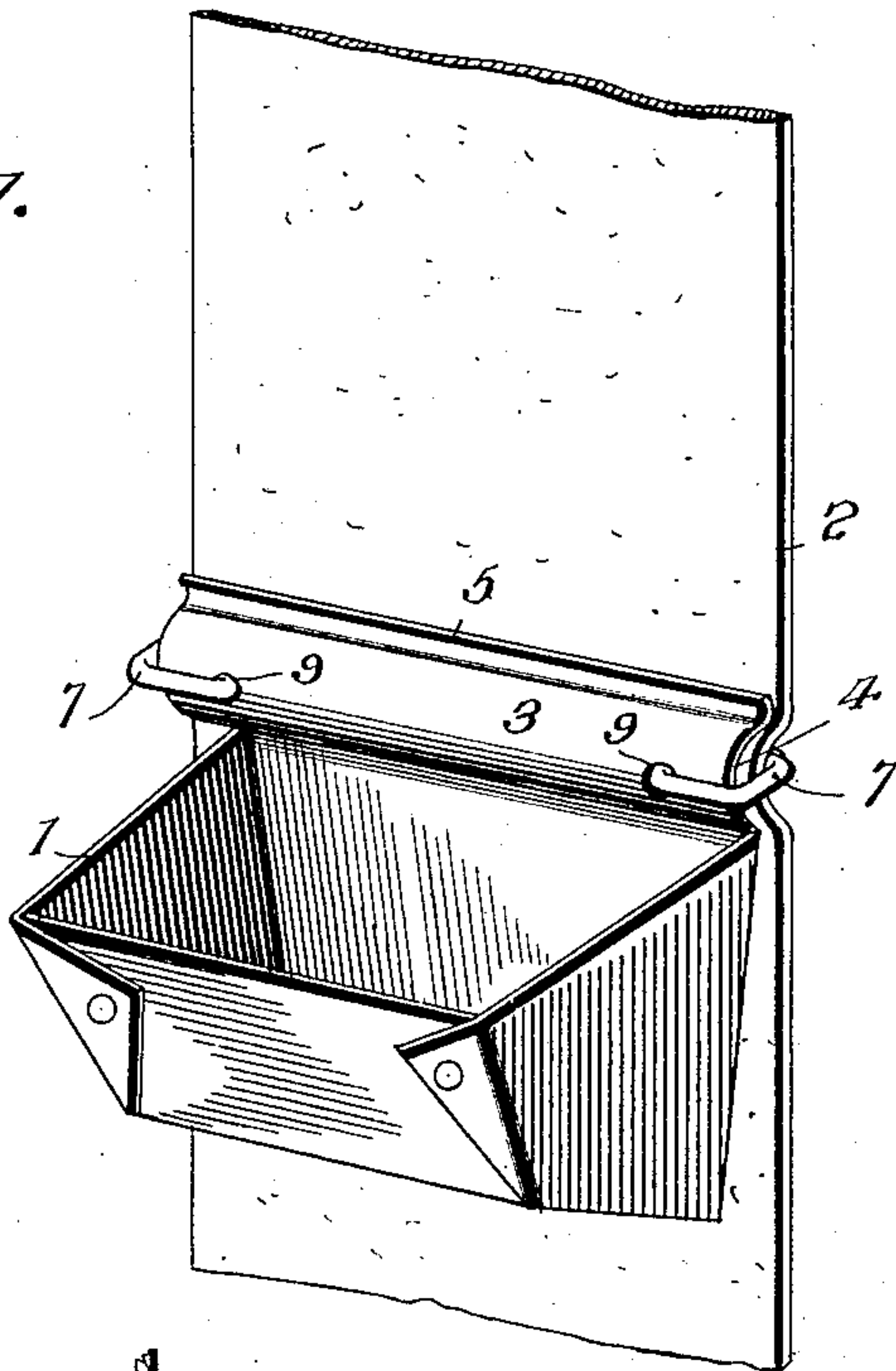


Fig. 2.

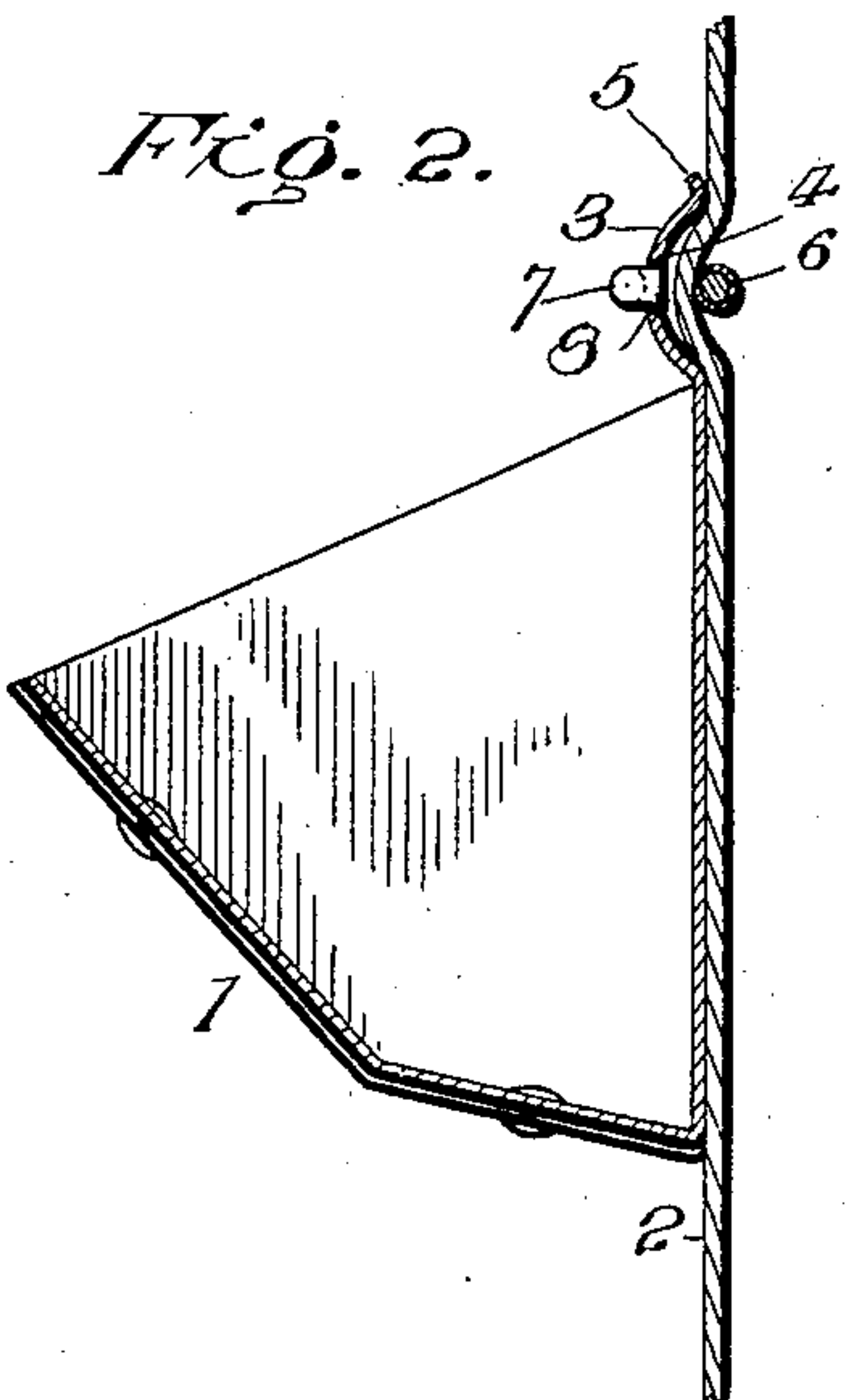
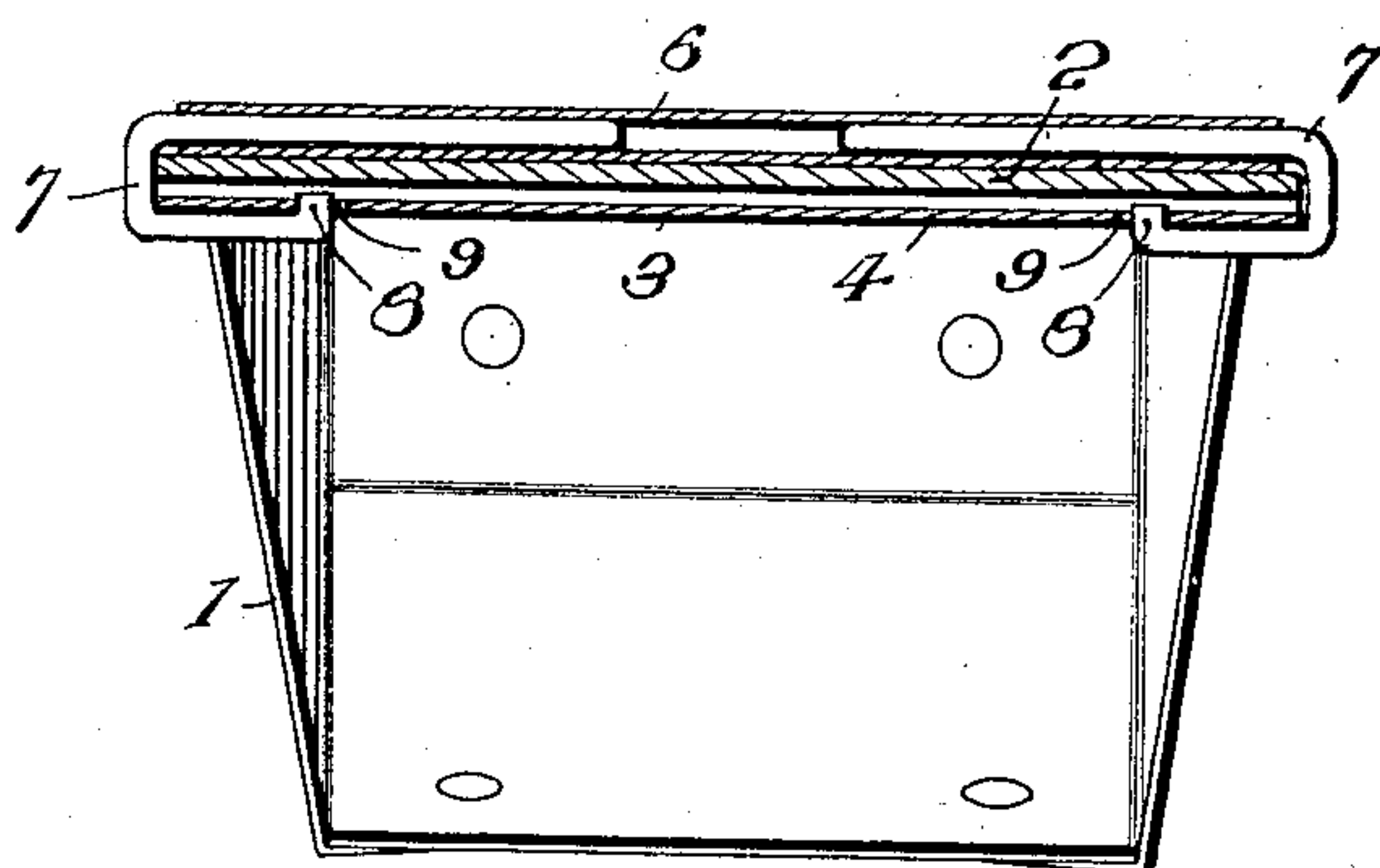


Fig. 3.



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IRA ORVILLE ROBBINS, OF MILLVILLE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO ELLIS GREENLEY, OF MILLVILLE, PENNSYLVANIA.

ELEVATOR-BUCKET.

No. 865,611.

Specification of Letters Patent.

Patented Sept. 10, 1907.

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To all whom it may concern:

Be it known that I, IRA ORVILLE ROBBINS, a citizen of the United States, residing at Millville, in the county of Columbia and State of Pennsylvania, have invented
5 certain new and useful Improvements in Elevator-Buckets, of which the following is a specification.

The present invention relates to a novel means for attaching elevator buckets and the like to the belts carrying the same without the use of bolts, rivets, or
10 similar fastening means.

The primary object of the invention is to provide an attaching device which permits of the bucket being readily removed from or placed in position upon the belt without the use of tools of any kind, and which is
15 peculiarly designed so that it is automatically locked against accidental release when the device is in operation and the belt is under tension.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details
20 of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a portion of a belt, an elevator bucket being shown as applied thereto in
25 accordance with the present invention. Fig. 2 is a longitudinal sectional view through the bucket and band. Fig. 3 is a transverse sectional view through the extension upon the bucket.

Corresponding and like parts are referred to in the
30 following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the invention the numeral 1 designates an elevator bucket which is preferably formed of sheet material and may be of any conventional type, and 2 the belt to which the bucket is applied. One side of the bucket 1 is formed with an extension 3 fitting against the belt 2 and having a groove 4 pressed inwardly therefrom. The end portion of the extension 3 projects upwardly as indicated at 5 in order
40 to prevent the edge thereof from cutting or otherwise injuring the belt. A clamping bar 6 is utilized for drawing the belt 2 into the groove 4 when attaching the bucket to the belt, and this clamping bar carries hook members 7 detachably engaging opposite ends of the
45 extension 3.

It will be observed that the hook members 7 have the extremities thereof extended inwardly at 8 and loosely received by openings 9 in the extension 3. When the belt 2 is under tension as when the elevator is in use the

clamping bar 6 is drawn away from the base of the
50 grooves 4 and the inwardly turned extremities 8 of the hook members 7 are effectively locked against accidental disengagement from the openings 9. The shanks of the hook members 7 have a sliding movement with the clamping bar 6 and in the preferred construction the clamping bar is in the nature of a tubular member and the shanks of the hook members telescope within the ends thereof. It will thus be apparent that when the tension is released upon the belt 2 the clamping bar 6 can be forced against the base of the groove 4,
55 the inturned extremities 8 of the hook members thereby released from engagement with the openings 9 and the hook members then moved outwardly beyond the extension 3, thereby admitting of the bucket 1 being detached from the belt.

The manner of applying one of the buckets to the belt is just the reverse of that just described.

Having thus described the invention, what is claimed as new is:

1. In a device of the character described, the combination of a belt, a bucket comprising a member having a groove formed therein, a clamping bar extending across the belt and serving to draw the belt within the groove, and means carried by the ends of the clamping bar for engaging the bucket.

2. In a device of the character described, the combination of a belt, a bucket comprising a member having a groove formed therein, a clamping bar extending across the belt and serving to draw the belt within the groove, and means carried by the ends of the clamping bar for producing a detachable and interlocking connection with the bucket.

3. In a device of the character described, the combination of a belt, a bucket comprising a member formed with a groove, a clamping bar for holding the belt within the groove, and hook members carried by the clamping bar and detachably engaging the bucket.

4. In a device of the character described, the combination of a belt, a bucket comprising a member formed with a groove, a clamping bar serving to hold the belt within the groove, and hook members having a sliding connection with the clamping bar and detachably engaging the bucket.

5. In a device of the character described, the combination of a belt, a bucket comprising a member provided with a groove and having perforations formed therein, a clamping bar serving to retain the belt within the groove, and hook members carried by the clamping bar and provided with projections received by the before mentioned openings.

6. In a device of the character described, the combination of a belt, a bucket comprising a member formed with a groove and also provided with perforations, a clamping bar for retaining the belt within the groove, and hook members having a sliding connection with the opposite

ends of the clamping bar and detachably engaging the bucket, the said hook members being formed with projections received by the before mentioned openings in the bucket.

- 5 . 7. In a device of the character described, the combination of a belt, a bucket comprising a member provided with a groove and having openings formed therein, a clamping
10 bar for retaining the belt within the groove, the said clamping bar being in the nature of a tube, and hook members carried by the clamping bar and detachably engaging the bucket, the shanks of the hook members

telescoping within the ends of the tubular clamping bar and the said hook members being provided with projections received by the before mentioned openings in the bucket.

In testimony whereof I affix my signature in presence of two witnesses.

IRA ORVILLE ROBBINS. [L. S.]

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