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Patented July 25, 1899.

A. V. ALLEN.

MEANS FOR SECURING ELEVATOR BUCKETS TO THEIR BELTS.

(Application filed Nov. 2, 1898.)

(No Model.)

Fig. I.

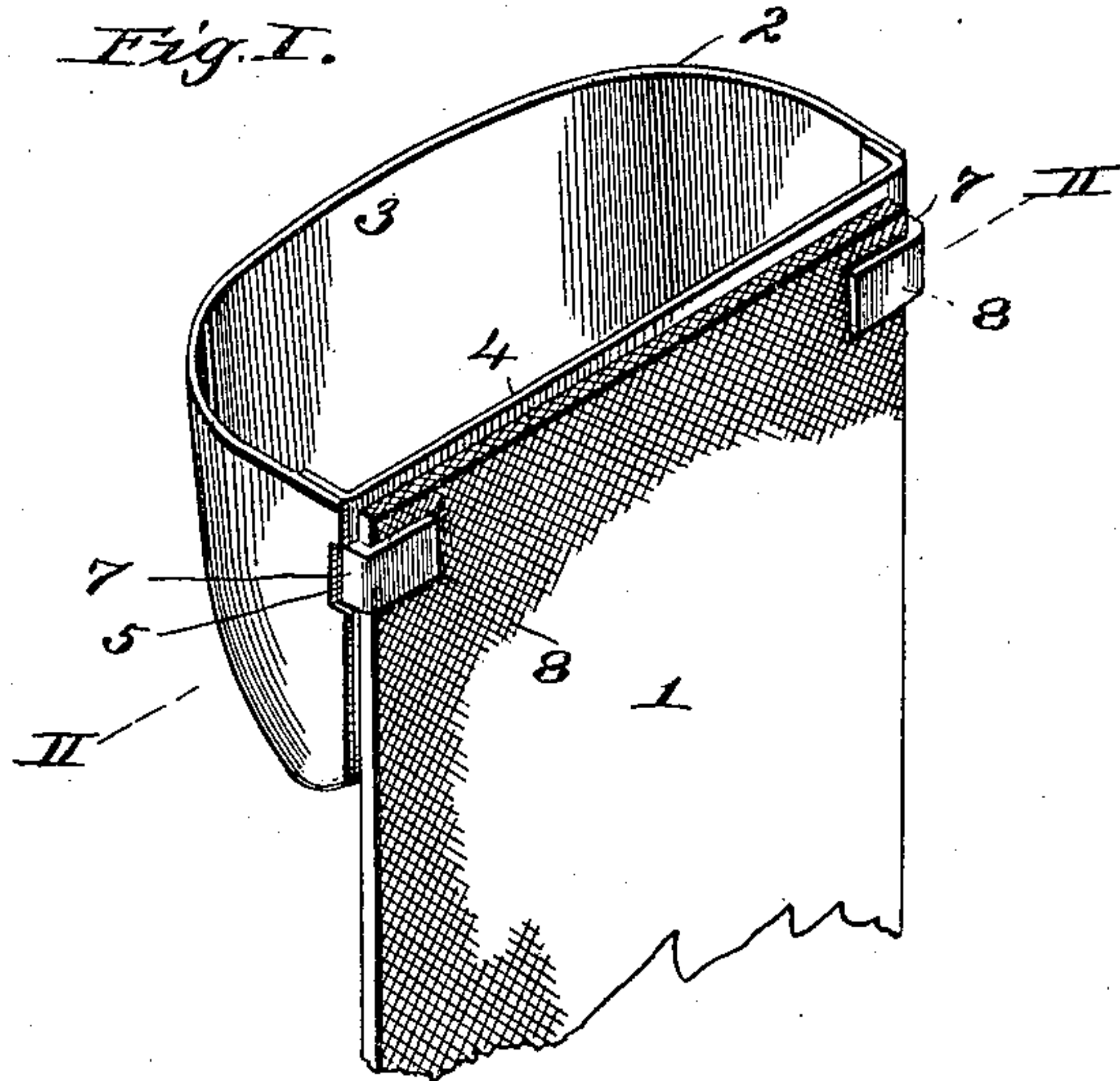


Fig. II.

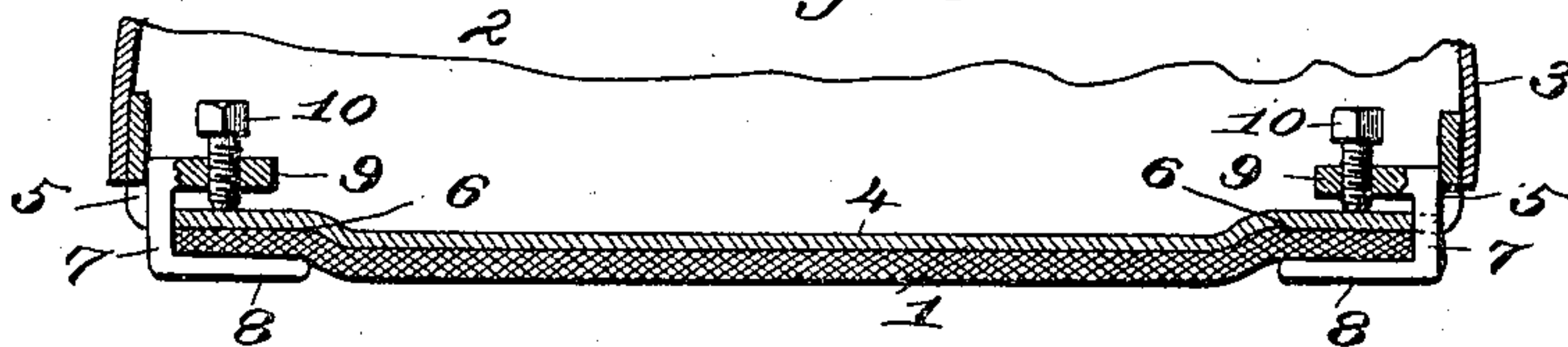
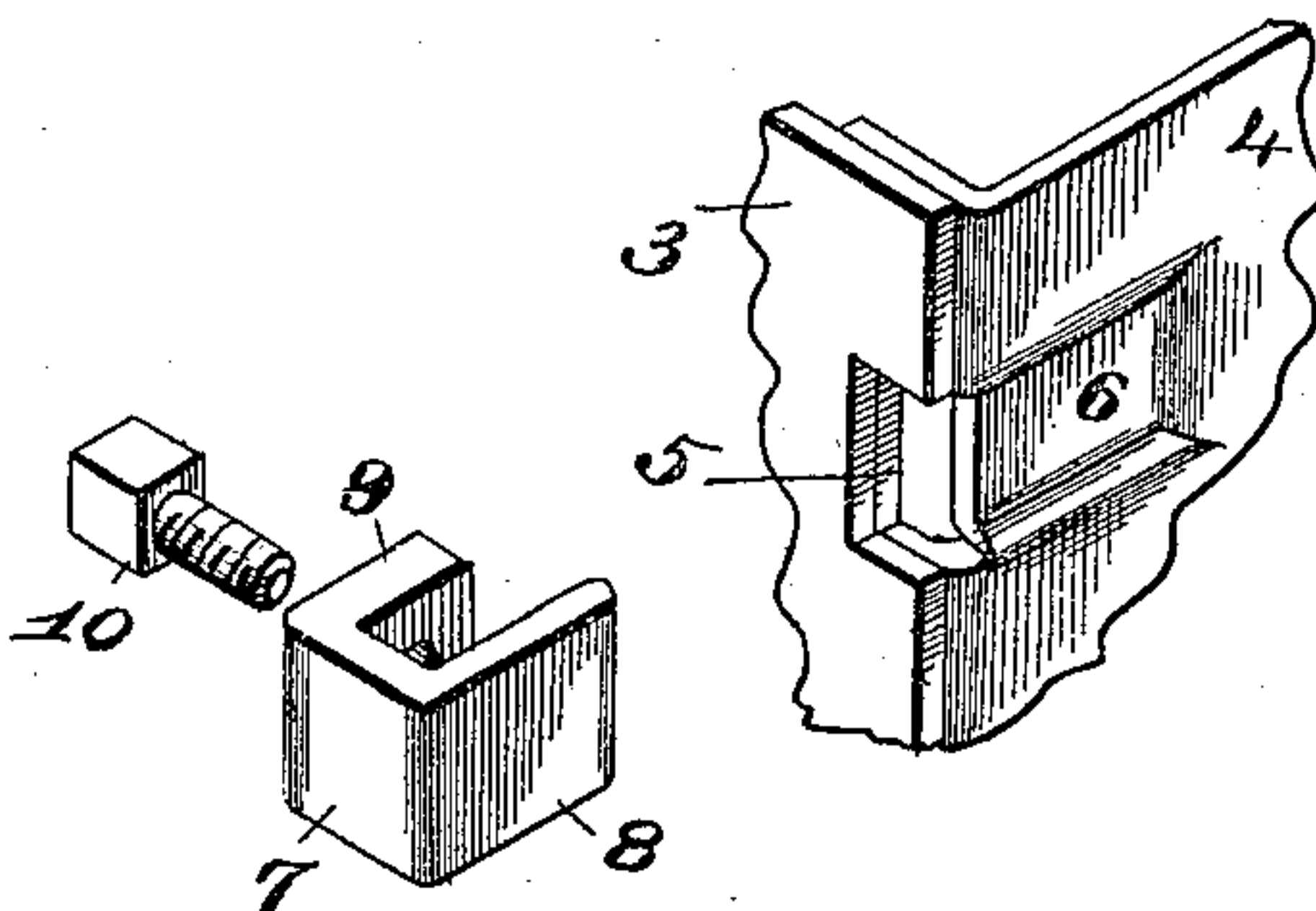


Fig. III.



WITNESSES

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MEANS FOR SECURING ELEVATOR-BUCKETS TO THEIR BELTS.

SPECIFICATION forming part of Letters Patent No. 629,707, dated July 25, 1899.

Application filed November 2, 1898. Serial No. 695,259. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS V. ALLEN, a citizen of the United States, residing at Joplin, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Means for Securing Elevator-Buckets to their Belts, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a simple and efficient means for attaching elevator-buckets to their belts, such as used for hoisting dirt, ores, &c.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a perspective view of an elevator-bucket secured to its belt by my improved means. Fig. II is a cross-sectional view taken on line II II, Fig. I. Fig. III is an enlarged detail perspective view of one corner of the rear part of a bucket with the fastening-clip shown removed.

The common manner by which elevator-buckets have been heretofore secured to their belts has been by bolts or rivets inserted through the belts and the backs of the buckets to connect the two together. This arrangement has proven objectionable by reason of the severe strain upon the bolts or rivets, which causes the bolts or rivets to be pulled from the belt, breaking it, and in a short time rendering the belt unserviceable.

The object of my invention is to provide a simple means for clamping the buckets to the belt without perforating or injuring it.

1 designates the elevator-belt, to which the buckets 2 are attached.

3 is the front of the bucket, and 4 its back. At each end of the back of the bucket are openings 5, and in the back of the bucket are depressions 6 coincident with said openings.

7 designates a clip formed with legs 8 and 9, and 10 is a screw seated in the leg 9 of said clip.

In applying the elevator-bucket to the belt 1 the back of the bucket is laid against the belt, and the clips 7 are then applied by pass-

ing the legs 9 through the openings 5, so that said legs 9 are located within the bucket, while the leg 8 is located outside of the bucket and in a position corresponding to the depressions 6. The screws 10 are then inserted into the legs 9 of the clips, and being screwed inwardly against the back 4 of the bucket the clip-legs 8 are drawn up firmly against the belt 1, binding it tightly to the back of the bucket.

I prefer to form the depressions 6 in the back of the bucket, as shown, inasmuch as these depressions allow for the belt being drawn thereto by the clips, thus rendering the surface of the belt and clip-legs 8 even throughout and also assisting in more firmly holding the bucket to the belt. These depressions might, however, be dispensed with without departing from my invention.

I claim as my invention—

1. The combination with an elevator belt and bucket, of means for securing said bucket to said belt, comprising clips applied to the back wall of the bucket and over the edges of the belt, and set-screws in said clips whereby the clips may be drawn to said belt to clamp the bucket thereto; substantially as described.

2. In combination with an elevator belt and bucket, said bucket being provided with depressions in its back wall, clips applied to said back wall and set-screws arranged in said clips whereby they may be drawn to said belt, substantially as described.

3. In an elevator, the combination of a belt, a bucket provided with openings at its rear side and depressions in its rear wall, clips having two legs, one of each of which is adapted to pass through said openings, and the other of which is adapted to rest against said belt, and set-screws adapted to pass through the inner legs of said clips to bind the outer legs against said belt, substantially as described.

AUGUSTUS V. ALLEN.

In presence of—

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