

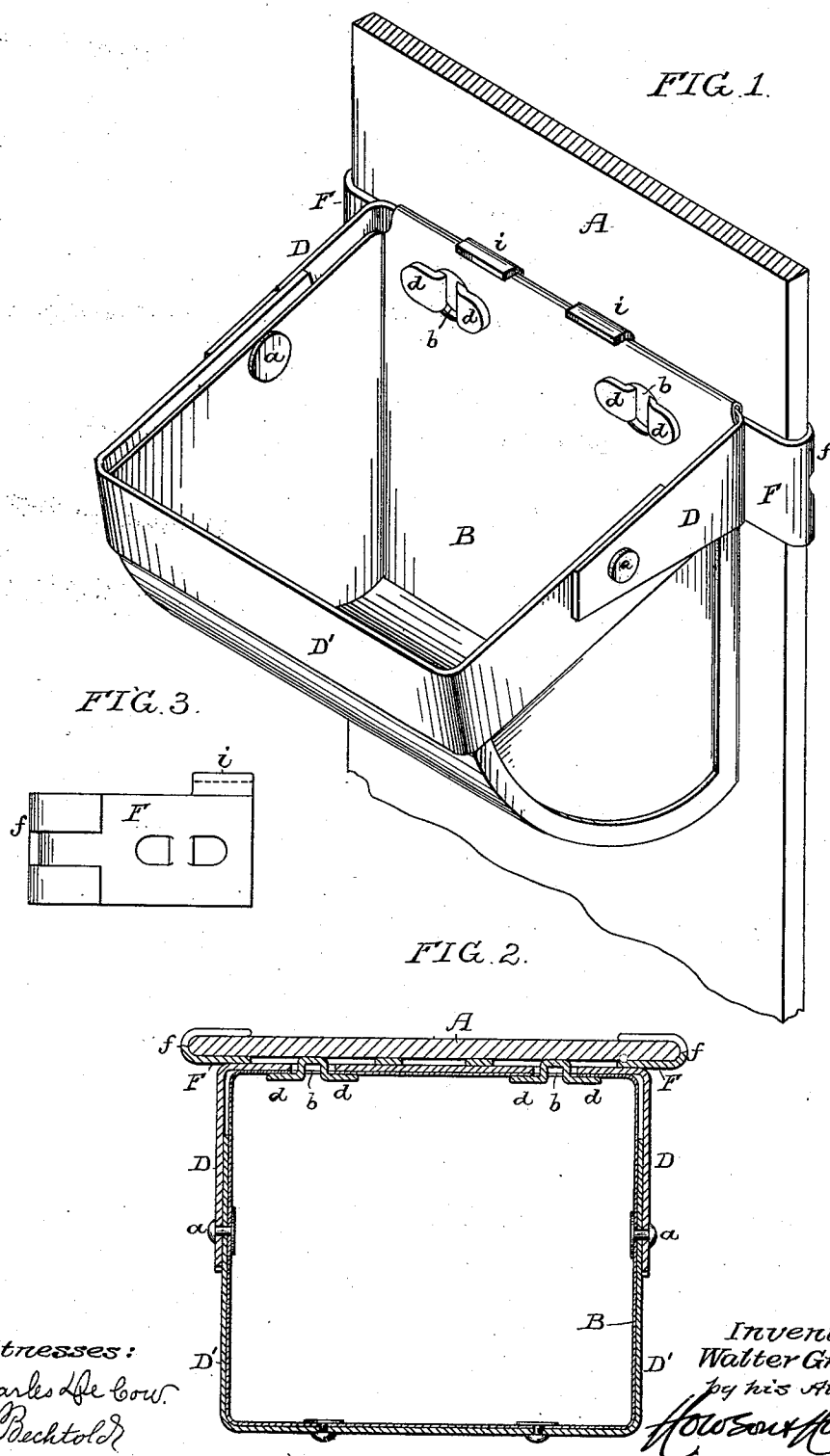
(No Model.)

W. GRISCOM.

DEVICE FOR ATTACHING ELEVATOR BUCKETS TO BELTS.

No. 567,469.

Patented Sept. 8, 1896.



UNITED STATES PATENT OFFICE.

WALTER GRISCOM, OF PHILADELPHIA, PENNSYLVANIA.

DEVICE FOR ATTACHING ELEVATOR-BUCKETS TO BELTS.

SPECIFICATION forming part of Letters Patent No. 567,469, dated September 8, 1896.

Application filed June 1, 1896. Serial No. 593,861. (No model.)

To all whom it may concern:

Be it known that I, WALTER GRISCOM, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Devices for Attaching Elevator-Buckets to Belts, of which the following is a specification.

One object of my invention is to provide for attaching elevator-buckets to belts without the use of the usual rivets or bolts, so that a bucket may be attached to any desired portion of the belt or readily shifted from one point on the belt to another, a further object being to provide for the use of the same fastenings upon belts and buckets of different widths. These objects I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of an elevator-bucket and part of the elevator-belt, illustrating my improved bucket-fastening. Fig. 2 is a sectional plan view, and Fig. 3 is a detached elevation of one of the fastening devices.

A represents part of the elevator-belt, and B a bucket secured thereto. This bucket may be made in any convenient manner, as the construction of the bucket forms no particular part of my invention, the latter relating to the means adopted for securing the bucket to the belt.

The bucket shown in Figs. 1 and 2 consists of sheet metal bent into and secured in the proper form, the bucket having upon the top a stiffening or strengthening band composed of inner and outer U-shaped strips D D', the ends of which overlap on the sides of the bucket and are secured together and to said sides of the bucket by rivets a.

In the back of the bucket and in its strengthening-strip D are formed openings b for the reception of tongues or fingers d, struck up from attaching-plates F, each of which has its outer portion bent rearward and inward, so as to form a hook f for embracing the edge of the belt A and clasp or confining the same. The openings b are so located in the bucket that when the attaching-plates F are applied to the bucket the distance between the loops or hooks of said attaching-plates will preferably be just equal to or slightly

less than the width of the belt, so that said hooks will fit snugly to or will slightly compress the belt laterally. Each hook is preferably recessed in the center, as shown in Fig. 3, so as to increase its hold or grip upon the belt by providing upper and lower prongs, between which the belt can expand, and on each of the attaching-plates F is formed a lug or finger i, adapted to overlap the top edge of the bucket, as shown in Fig. 1, so as to prevent any twisting of the attaching-plate out of its proper position on the belt.

By providing the buckets with attaching devices having loops or hooks for embracing the edges of the belt, the bucket can be very readily applied to or removed from the belt by simply bending or buckling the latter, so as to reduce its width sufficiently to permit of the withdrawal of said edges from the hooks in detaching the bucket, or so as to permit of the slipping of the edges of the belt into the hooks in attaching the bucket, the flattening out of the belt in the latter case causing the edges of the same to engage with the hooks and thus insuring the secure confinement of the bucket to the belt.

By providing the bucket with independent attaching devices at each edge the same devices may be used in connection with buckets and belts of different widths, the openings b being so located on each bucket that when the attaching-plates are confined to the bucket the hooked edges of said plates will bear such relation to each other as to properly receive the edges of a belt of the width for which the particular bucket is intended.

In all cases the attaching devices are independent of the buckets, this feature of my invention being adopted whether I use independent attaching-plates at each edge of the bucket or a single plate extending entirely across the bucket.

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

1. The combination of an elevator belt and bucket, with independent bucket-attaching plates secured to the bucket and each having a hook adapted to embrace the edge of the belt, substantially as specified.

2. The combination of an elevator belt and bucket, with a bucket-attaching device hav-

ing hooks adapted to clasp the edges of the belt, said hooks being recessed so as to form upper and lower prongs projecting inwardly from the edges of the belt, substantially as specified.

3. The combination of an elevator-belt and its buckets, with bucket-attaching plates having hooks adapted to clasp the edges of the belt, and means for detachably connecting the buckets to said plates, substantially as specified.

4. The combination of the elevator belt and buckets, with attaching-plates having hooks adapted to clasp the edges of the belt, and tongues or fingers passing through openings in the buckets and bent down on the inside of the same, substantially as specified.

5. The combination of an elevator cup or bucket, with a pair of independent plates secured thereto and each having a hook adapted to clasp the edges of the elevator-belt, substantially as specified.

6. The combination of an elevator cup or bucket having openings therein, with independent attaching-plates having hooks or fingers passing through said openings and bent down on the inner side of the bucket, each of said plates also having a hook adapted to clasp the belt, substantially as specified.

7. The combination of an elevator cup or bucket having openings therein, with an independent pair of plates having fingers passing through said openings and bent down on the inner side of the bucket, lugs overlapping the upper edge of the bucket, and hooks adapted to clasp the elevator-belt, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER GRISCOM.

Witnesses:

CHAS. H. BANNARD,
WILL. A. BARR.