

S. HUGHES.  
ELEVATOR-BUCKET.

No. 175,102.

Patented March 21, 1876.

Fig 1-

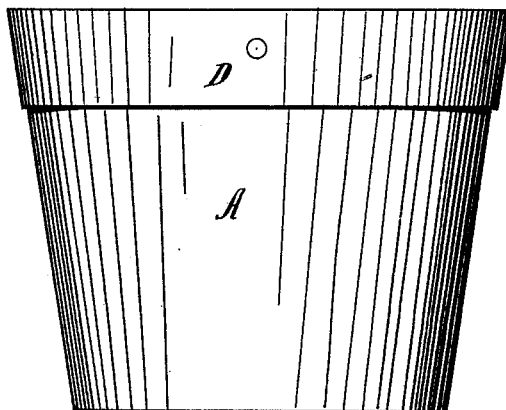
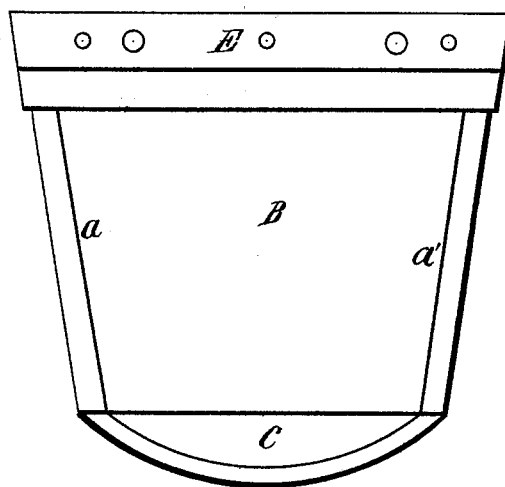


Fig 2-



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# UNITED STATES PATENT OFFICE.

SAMUEL HUGHES, OF CHARLESTON, SOUTH CAROLINA.

## IMPROVEMENT IN ELEVATOR-BUCKETS.

Specification forming part of Letters Patent No. **175,102**, dated March 21, 1876; application filed December 30, 1875.

### *To all whom it may concern:*

Be it known that I, SAMUEL HUGHES, of Charleston, in the county of Charleston and State of South Carolina, have invented certain new and useful Improvements in Elevator-Buckets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to accompanying drawings, which form part of this specification.

In the accompanying drawings like letters designate like parts of my invention.

Figure 1 is a front view of my improved elevator-bucket, and Fig. 2 shows the bottom and rear side of the same.

Elevator-buckets have heretofore been constructed of three or more pieces of sheet metal, secured by rivets or otherwise, but of a form and construction that necessitated the exposure of the joints or seams of the bucket to great friction and wear in passing through grain or other material to be raised, and also through the elevator-cases.

The object of my invention is to obviate many of the defects found in elevator-buckets as now constructed; and to that end my invention consists, first, in an elevator-bucket having its front and sides formed of a single piece of sheet metal; secondly, an elevator-bucket formed of two pieces of sheet metal, and presenting a seamless front; thirdly, in certain details of construction, which will more fully appear from the following description and claims.

A is the front of the bucket, formed of a single piece of sheet metal, the edges of which are folded, as at *a' b*, to allow of its attachment to the back B and bottom C, by means of solder, rivets, or otherwise, as will be found

most expedient in their manufacture. The back B and bottom C of the bucket are formed of a single piece of sheet metal, and the bottom has a continuous support upon the lower flange of the front plate A. Around the mouth of the bucket there is secured a strengthening-band, D, which is folded over, and protects the upper edges of the bucket. A metallic strip or plate, E, is riveted to the upper rear edge of the bucket, and serves to re-enforce the metal where it is attached to the endless belt. There are no joints or rivets in this bucket exposed to serious abrasion by the material to be transferred and to the walls of the elevator-casing, and the bucket is of simple, economical, and durable construction.

The back and bottom of the bucket may be formed of separate pieces of sheet metal and secured at their lower edge; also, the bucket may be made of material of sufficient thickness to safely allow of the omission of the strengthening-band D; hence I do not limit myself to the exact form and construction herein shown; but

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

1. The body of an elevator-bucket, composed of two pieces of metal, and constructed, substantially as set forth, to form a seamless front, for the purpose specified.

2. The combination, with an elevator-bucket formed of two pieces of sheet metal, as set forth, of a strengthening-band, D, substantially as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of December, 1875.

SAMUEL HUGHES.

Witnesses:

HORATIO C. HUGHES,  
FRED. HENDRICKS.