H. A. DUC, Jr.

ELEVATOR BUCKET

No. 180,329. Patented July 25, 1876.

Fig. 1.

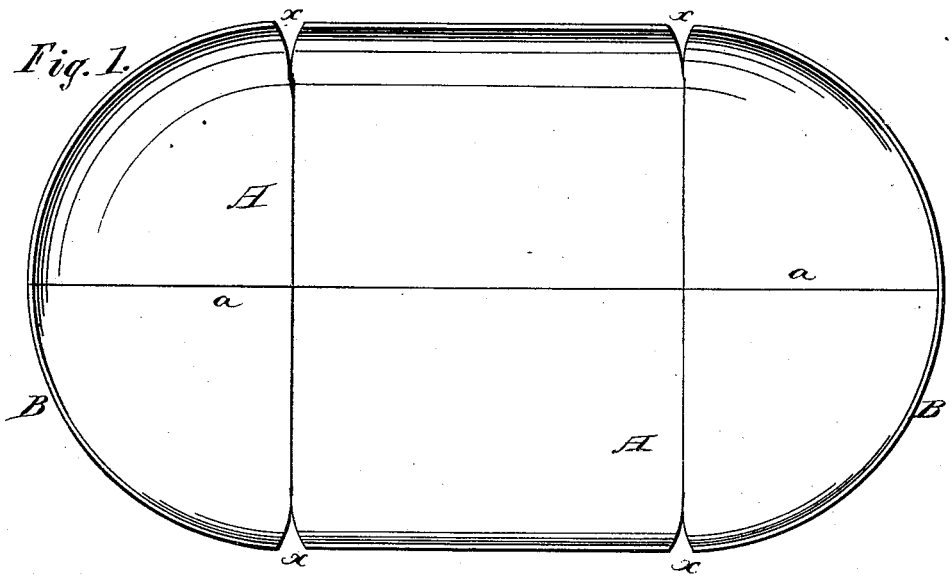


Fig. 2.

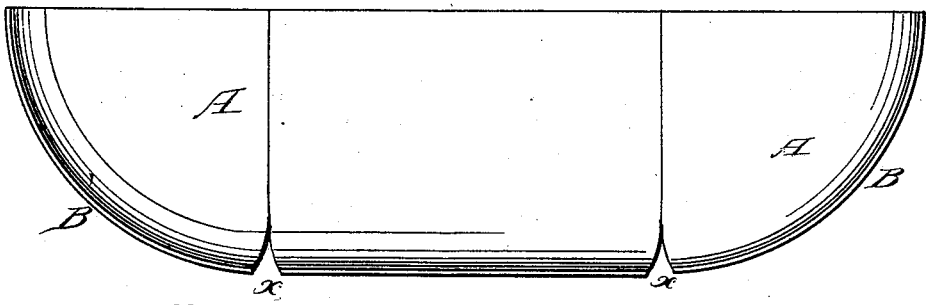


Fig. 3

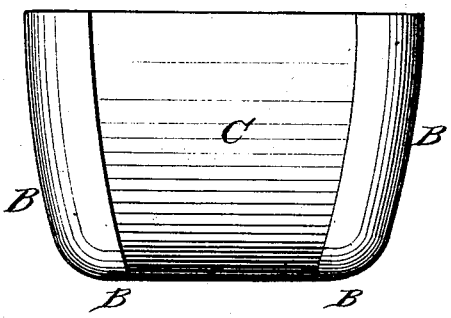
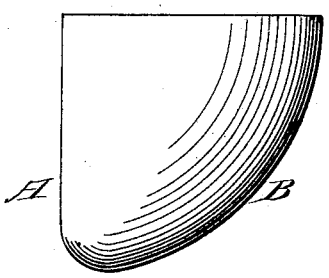


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY A. DUC, JR., OF CHARLESTON, SOUTH CAROLINA.

IMPROVEMENT IN ELEVATOR-BUCKETS.

Specification forming part of Letters Patent No. **180,329**, dated July 25, 1876; application filed January 5, 1876.

To all whom it may concern:

Be it known that I, HENRY A. DUC, Jr., of Charleston, in the county of Charleston and State of South Carolina, have invented certain new and useful Improvements in the Manufacture of Elevator-Buckets; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the method of constructing an elevator-bucket having round corners or spherically-shaped ends, whereby the bucket is made stronger, less liable to catch in the trough through which it passes when the belt to which it is attached wabbles or twists, will deliver better, can be made at less expense from less material, and will not require the belt as wide as the ordinary bucket.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figures 1 and 2 are views of the blanks from which my bucket is made. Fig. 3 is a front view, and Fig. 4 is a side elevation, of my bucket completed.

A represents a piece of sheet metal, which is first cut in oval or elliptic shape, and then drawn up in dies to form a curved flange, B, around its edges. This flange is then notched at the four points marked *x*, and the sheet-metal plate A is then cut in two longitudinally in the center, on the line *a a*, thus separating it into two equal parts. One of these pieces is then bent across at the notches *x x*, so as to form the back and part of the front of a bucket. A piece, C, of sheet metal is then riveted or otherwise secured to the flanges B B B, which completes the bucket.

The piece C may be of thicker gage or of a different quality from the other part of the bucket, as it receives all the wear, and generally gives out first. It may be made of steel, if required.

The bucket thus made has round corners or spherically-shaped ends; but buckets of the ordinary form can be made much cheaper by the same method.

Instead of inserting an extra piece, C, in the front to complete the bucket, the flanges B B may be made wide enough to complete the front.

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

The process of forming an elevator-bucket of a piece of sheet metal by passing it through dies to form flanges, and then cutting, notching, and bending the same, as shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

HENRY A. DUC, JR.

Witnesses:
A. PERDIGON,
MARION SARVIS.