E. JOHNSON.
Elevator Bucket.

No. 197,140. Patented Nov. 13, 1877.

Fig. 1

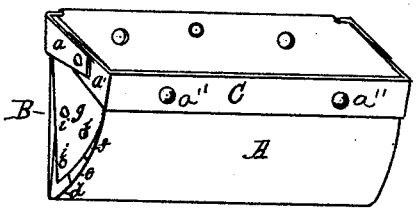


Fig. 2

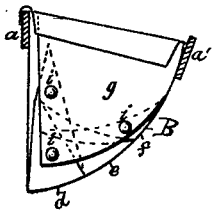
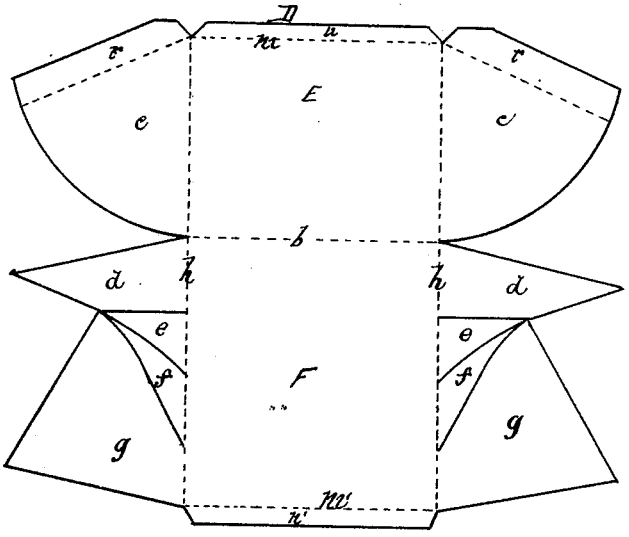


Fig. 3



WITNESSES:
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UNITED STATES PATENT OFFICE.

ERIK JOHNSON, OF CHICAGO, ILLINOIS, ASSIGNOR TO TOWNER K. WEBSTER, OF SAME PLACE.

IMPROVEMENT IN ELEVATOR-BUCKETS.

Specification forming part of Letters Patent No. **197,140**, dated November 13, 1877; application filed April 30, 1877.

To all whom it may concern:

Be it known that I, ERIK JOHNSON, of Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Elevator-Buckets; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a perspective view of an elevator-bucket embodying my invention. Fig. 2 represents an end view of the same, with the band encircling the upper portion of the bucket cut away; and Fig. 3, a general plan of the blank from which the bucket is formed.

Like letters of reference indicate like parts.

My invention relates to that class of elevator-buckets constructed of sheet metal; and the object of my invention is to cut the blank forming the body of the bucket from one piece of metal, and so that when it is bent to form the bucket the ends overlap each other, and so that ends consist of three thicknesses of metal, and thereby greatly increase the strength and durability of the bucket.

To that end my invention consists in the form of the blank, and the manner of connecting the parts forming the ends of the bucket, as hereinafter more fully described.

In the drawings, A represents the front of the bucket when completed, and B the ends thereof. C represents a wrought-metal band, which is made in two parts, *a a'*, bent at their ends, so as to lap one over the other, and fit against the outer surface of the side and end walls of the bucket, at the upper end thereof, and are secured thereto by a series of rivets, *a''*, as shown in Fig. 1.

D represents the blank from which the bucket is formed, and is cut from a single piece of sheet metal of the proper length to form the front and back walls of the bucket, and is provided on each edge with a series of wings, *c*, *d*, *e*, *f*, and *g*, cut in the form shown in Fig. 3, and which form the end walls of the bucket, and the part E above the line *b* forms the back, and the part F below the line *b* forms the front walls of the bucket, when bent or formed up, as hereinafter described.

In forming the bucket from the blank, the wings *c c* are first bent on the lines *h h* to a right angle to the plane of the part E. The part F is then brought or bent upward on the line *b*, so as to fit against the curved edges of the wings *c c*, when the wings *d*, *e*, and *f* are bent on the lines *h h*, so as to overlap and rest against the wings *c c*. The wings *g g* are then bent so as to overlap and rest against the outer surface of the wings *d*, *e*, and *f*, at each end of the bucket, and are secured to the wings by rivets *i i i* passing through the wings *g c* and *d e f*, respectively, as shown in Fig. 2, thus firmly connecting the several parts, so as to form three thicknesses of metal at each end of the bucket.

The part *n* above the line *m*, and the part *n'* below the line *m'*, are bent over so as to rest against the parts E and F, respectively, and the parts *r r* above the lines *s s* are then bent so as to overlap and rest against the outer surface of the wings *g g*, and the band C is riveted to the upper edge of the bucket, over the parts *n n'* and *r r*, completing the bucket.

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

An elevator-bucket, substantially such as shown and described, made from a single piece of sheet metal cut to form the parts E F and wings *c*, *d*, *e*, *f*, and *g*, and provided with the rivets *a''* and band C, as and for the purpose specified.

The foregoing specification signed by me this 3d day of March, A. D. 1877.

ERIK JOHNSON.

Witnesses:

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N. H. SHERBURNE.