

(No Model.)

W. D. RINEHART.
ELEVATOR BUCKET.

No. 262,123.

Patented Aug. 1, 1882.

Fig. 1.

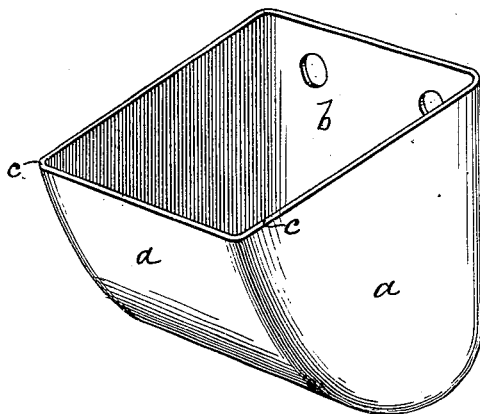
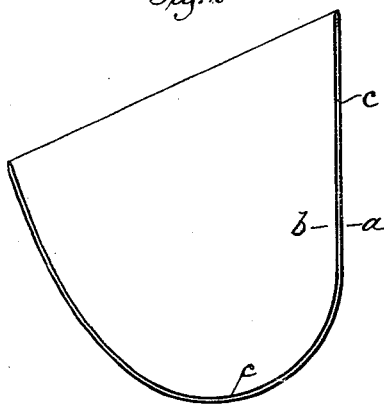


Fig. 2.



Attest;

Geo. H. Graham
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By
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Atty.

UNITED STATES PATENT OFFICE.

WILLIAM D. RINEHART, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE LINK
BELT MACHINERY COMPANY, OF SAME PLACE.

ELEVATOR-BUCKET.

SPECIFICATION forming part of Letters Patent No. 262,123, dated August 1, 1882.

Application filed June 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. RINEHART, of Chicago, in the county of Cook and State of Illinois, 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, making part of this application.

My present invention relates to a novel construction of that kind of buckets or receptacles for elevator and other purposes which is manufactured out of paper, paper-stock, or other analogous fibrous material; and has for its object to provide for use an article of the kind named of an improved quality and character.

In another application by me, filed simultaneously with this, will be found fully described the invention of the manufacture of buckets for elevators of paper or paper-stock.

The improvement made the subject of this application consists in making a paper or papier-maché bucket by the combination and securement solidly together of two or more shells each perfectly formed first and then all secured together (in a nest) by means of interposed cementing material, all as will be hereinafter more fully explained.

To enable those skilled in the art to make and use my improvement, I will now proceed to more fully explain it, referring by letters to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a perspective view, and Fig. 2 a vertical central section, of a paper bucket made according to my improved mode.

a is the outer, and *b* the inner, shell, while *c* is an intermediate layer of some suitable cementing substance or material.

In have represented the two shells of paper *a* and *b* by simply heavy black lines in the drawings, while the intermediate layer of cement, *c*, I have illustrated by the white space between said two heavy lines.

The inner paper shell, *b*, may be made slightly smaller than the outer one, *a*, and if a third one be used inside of *b*, (with an interposed layer of cement,) it should be made slightly smaller than *b*.

Each of the shells is first molded and pressed into complete shape, and then both or all such shells are nested, as seen at Fig. 2, with a

thin layer between or coating on their adjacent surfaces of some suitable cementing substance or compound, as illustrated by the white space at *c*; and the molded shells and interposed cementing layer (or layers) of material are then subjected to suitable compression between dies, and the whole united permanently together.

If desired, the outer edge of the outer shell and the inner edge of the inner one may be beveled off, as seen at *e* and *f*, in order to have the edge of the finished bucket as thin as practicable, especially along the front and two side edges of the bucket, which are sometimes required to possess a capacity to enter or cut into a mass of stuff (to be elevated) with the least possible resistance.

In the course of manufacture the entire exposed surfaces of the combined shells composing the bucket may be coated with soluble glass, to stiffen it and augment the hardness and polish of its exterior, and any of the known appliances may be employed in first molding into shape and then uniting, by interposed cement and under pressure, the two or more nested shells.

By the combination of two or more completed shells made from paper-pulp or vegetable fibrous stock an article is produced which combines in an eminent degree the important qualities of strength, rigidity, durability, and lightness, while at the same time the article can be made at comparatively small cost.

It will be understood, of course, that although my improved bucket or cup is designed mainly for use as an elevator-bucket, receptacles made according to my present invention may be made of any other form and applied to any other use than that of an elevator-bucket.

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

An elevator-bucket composed of two or more previously-shaped shells of paper or paper-stock nested together with any suitable interposed cementing material and united, (under compression,) substantially as set forth.

In witness whereof I have hereunto set my hand this 10th day of June, 1882.

WILLIAM D. RINEHART.

In presence of—

FRANK I. PEARCE,
W. L. CRAWFORD.