

(No Model.)

W. D. RINEHART.
ELEVATOR BUCKET.

No. 262,122.

Patented Aug. 1, 1882.

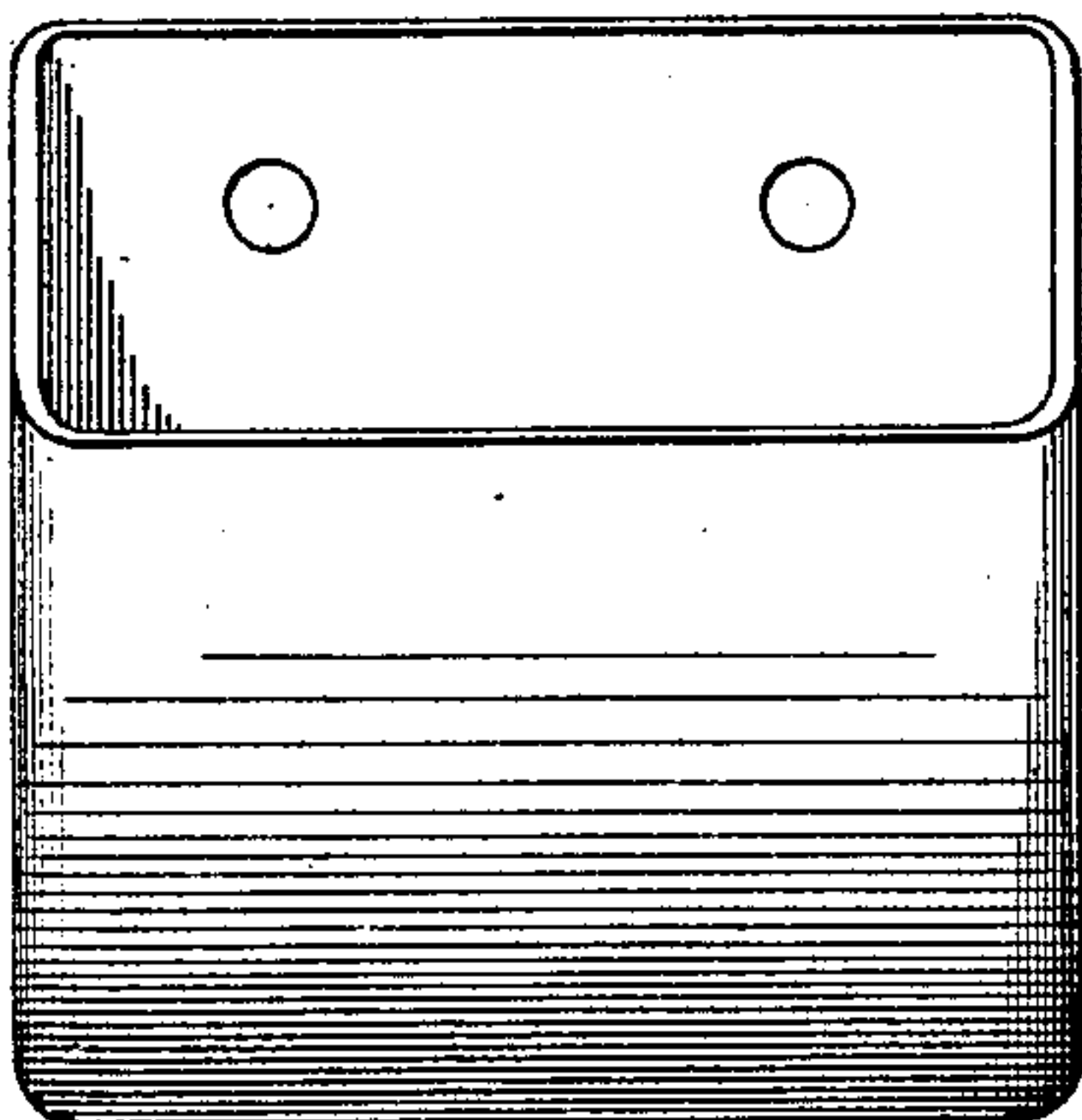


Fig. 1.

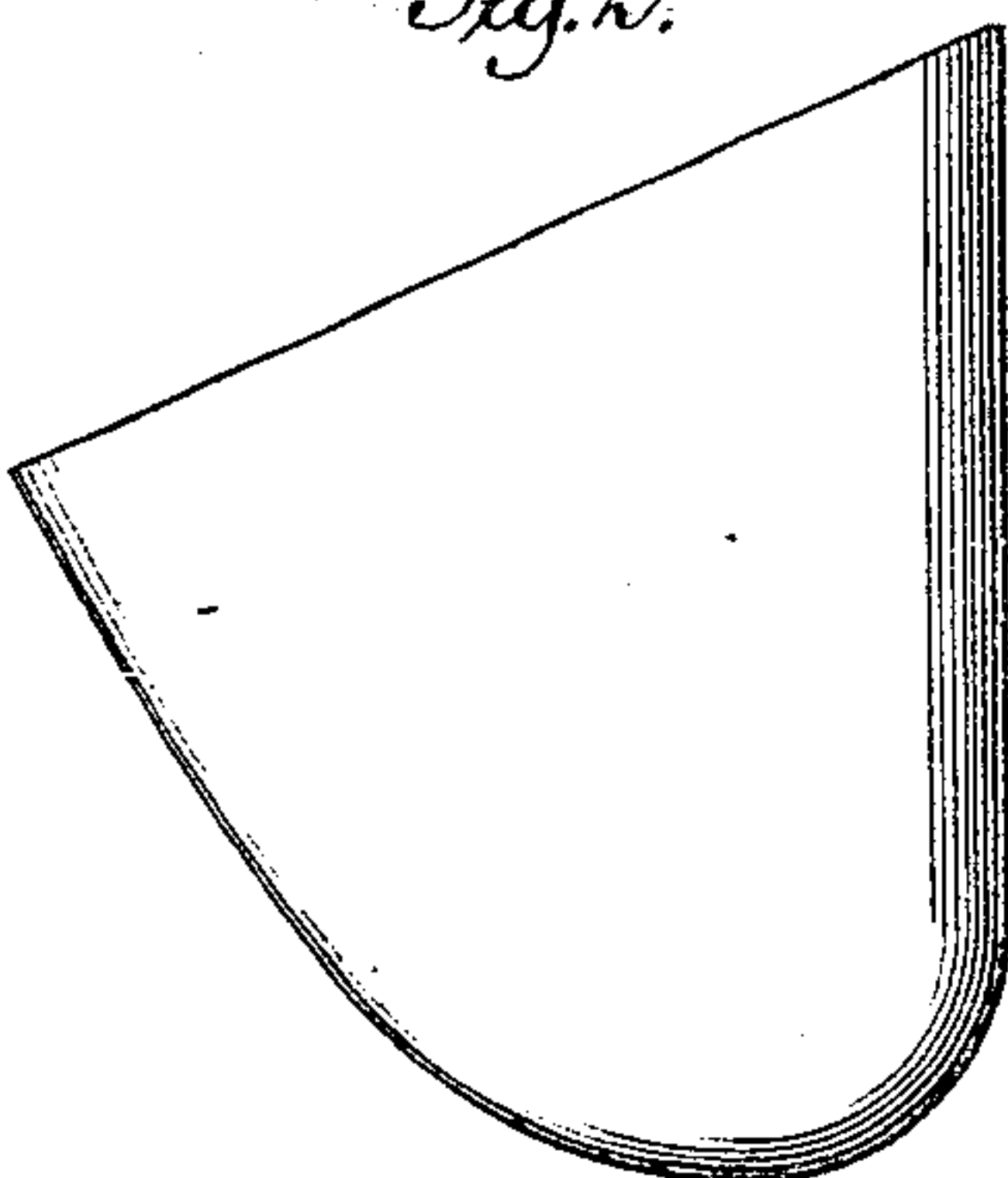


Fig. 2.

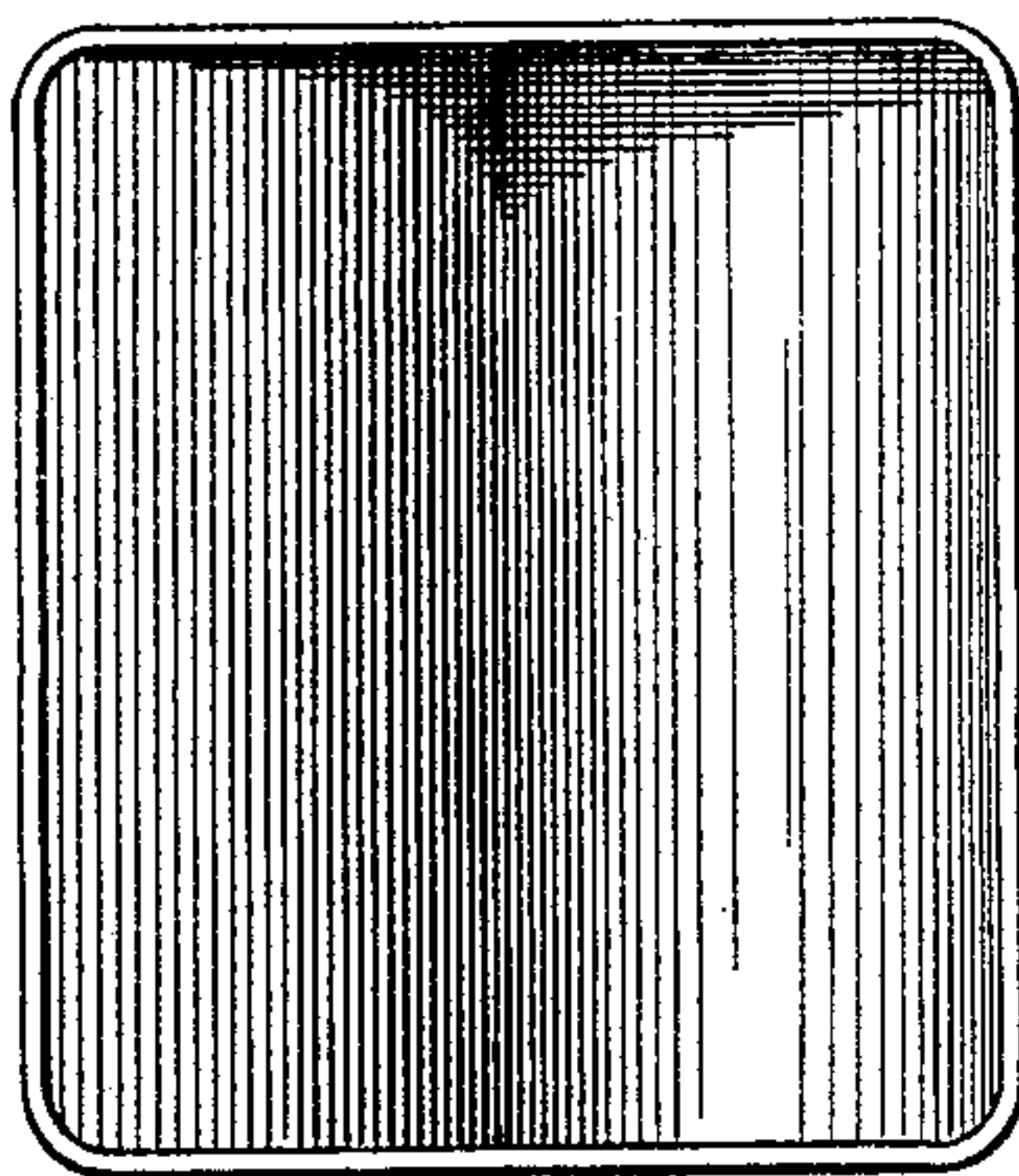


Fig. 3.

Attest;
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By
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Atty.

UNITED STATES PATENT OFFICE.

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

ELEVATOR-BUCKET.

SPECIFICATION forming part of Letters Patent No. 262,122, 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 invention relates to a novel manufacture of buckets for elevators.

Previous to my invention the buckets, pockets, or vessel-like receptacles applied to belts, chains, &c., in the construction of elevators for grain, flour, &c., have been made usually of metal wholly, through in some instances (where the buckets have been made distensible) leather and other flexible materials have been used for the pocket-like portion of the device, combined with a metallic frame. In the use of buckets or pockets as heretofore constructed these objections have been met with, viz: Any metallic device is often apt to discolor and injuriously affect some of the material—such as flour, for instance—which it may be desired to operate on; and, furthermore, where the metal is glazed or otherwise superficially coated with any substance designed to avoid any discoloration of the material handled, such coating substance is liable to scale off and get mixed with the material, where its presence is not only objectionable, but dangerous.

I propose to overcome these objections by providing for use a new kind of bucket or pocket; and to this end my invention consists in a bucket or pocket for elevators and analogous purposes made of paper or papier-maché molded or compressed into the proper and usual shape, and adapted to be secured in the ordinary manner to the belt or other band of the conveyer apparatus.

To enable those skilled in the art to make and use my invention, I will now proceed to more fully explain the same, referring to the accompanying drawings, forming part of this specification.

Figure 1 is a front view or elevation, Fig. 2 a side or end view, and Fig. 3 a top view, of an elevator-bucket made of the usual shape,

but composed of paper-pulp molded and compressed into form, and of a sufficient thickness (according to the size of the bucket and its intended uses) to get the requisite strength and rigidity.

The surface of the stock may be rendered smooth and hard by the same treatment and compression (between dies) as practiced in the manufacture of other articles from paper or paper-pulp, where it is important to have the article present hard, smooth, and durable surfaces and edges; and the improved bucket may be formed either of the paper-pulp or stock by molding and compressing, or it may be formed by molding and pressing together several layers or thicknesses of sheet paper successively applied, properly prepared, and having their adjacent surfaces coated with some of the known proper substances adapted to cement the several layers into one comparatively solid thickness.

A coating of soluble glass may be applied to the molded bucket, if desired, or intermixed with the pulp or papier-maché product.

It will be understood that, having discovered that the causes of the discoloration of flour, middlings, &c., by the use of metal buckets, and the objections to the use of porcelain-coated metal buckets may be effectually overcome by the use of buckets made of paper, paper-pulp, or analogous fibrous material, the gist of my invention rests in the manufacture of buckets or pockets for elevators (designed to handle such materials) of the fibrous matter stated.

Of course the treatment of the material may be varied according to the judgment of the person skilled in the art of making articles from the kind of stock mentioned.

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

A bucket or receptacle for elevator purposes, composed of paper, paper-pulp, or analogous fibrous material properly molded and pressed into shape and adapted to be attached to a belt.

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.