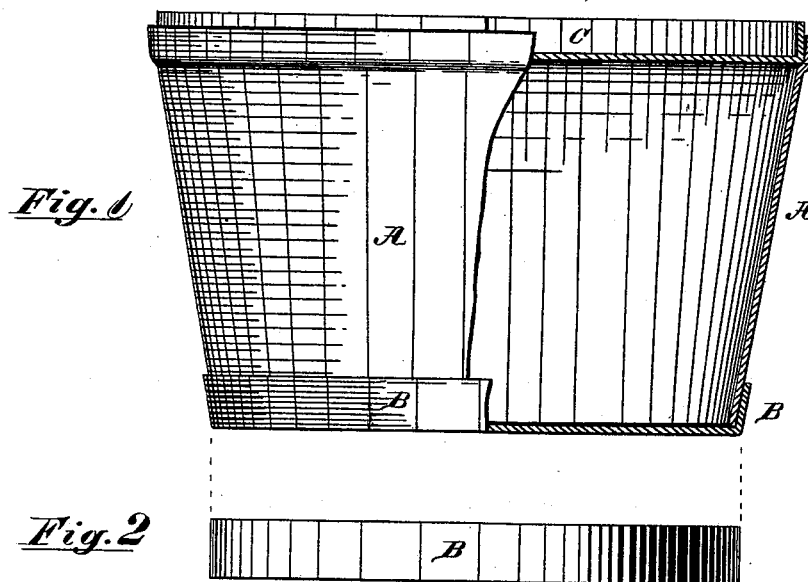


W. C. RITCHIE.
Paper-Vessel.

No. 215,976.

Patented May 27, 1879.



WITNESSES

Thos. B. Farrington
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INVENTOR

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Att'y

UNITED STATES PATENT OFFICE.

WILLIAM C. RITCHIE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PAPER VESSELS.

Specification forming part of Letters Patent No. **215,976**, dated May 27, 1879; application filed June 10, 1878.

To all whom it may concern:

Be it known that I, WILLIAM C. RITCHIE, of the city of Chicago, State of Illinois, have invented certain new and useful Improvements in Paper Vessels, of which the following, taken together with the accompanying drawings, is a full and accurate specification.

My invention relates to flaring vessels made of finished paper; and consists in the features of construction hereinafter fully described, and pointed out in the claim.

Figure 1 of the drawings shows a flaring paper vessel with portions of the body, bottom, and top broken away to clearly reveal the details of construction, and Fig. 2 is a side view of the bottom before it is applied to the vessel.

The body A of the vessel is flaring—that is, of greater diameter at one end than at the other. It is formed of a piece of finished paper, cut, bent, and seamed to give the required shape. B is the bottom, also formed of a single piece of finished paper, but without seam, to extend upward to embrace the lower margin of the body, constituting an outer band, continuous with the bottom proper. It is made from an originally flat disk by gathering, turning up, and compressing the margin thereof, so that when applied to the body A its rim is vertical, or more nearly vertical than the sides of the body. In applying it the edge of the rim is therefore expanded by a wedging action

of the flaring body opening somewhat the minute gathers or folds in the rim. The rim has sufficient retractile force when thus enlarged to cause it to tightly embrace the body, giving broad union or contact to the surfaces of the two parts, and holding itself firmly in place while the glue applied between them is setting.

When completed the vessel presents a perfectly-smooth interior, and is strengthened not only by the body of material included in the exterior band, but by this material greatly fortified by its continuous union with the bottom, of which, as described, it forms a part. A similarly-formed bottom applied to the interior, which is common, obviously affords no such added strength to the vessel.

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

The herein-described method of forming and securing the bottoms of paper vessels—to wit, by forming said bottom with a marginal flange less flaring than the sides of the vessel, and forcing the same upon said vessel with paste or glue, whereby said flange is expanded to conform to the vessel-sides and insure a close and solid joint.

W. C. RITCHIE.

Witnesses:

M. E. DAYTON,
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