R. A. ROGERS & H. L. R. WOLF.

PAPER-BOXES.

No. 194,178. Patented Aug. 14, 1877

Fig. 1.

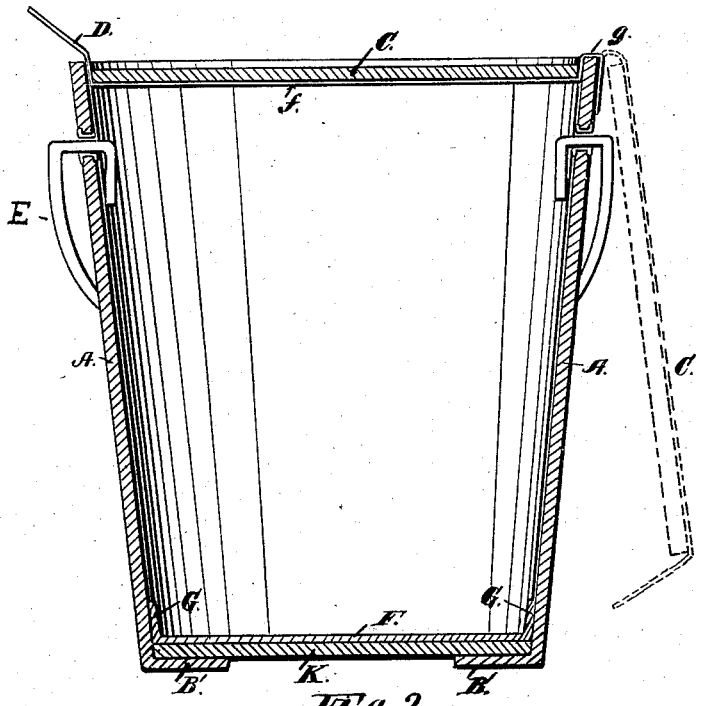
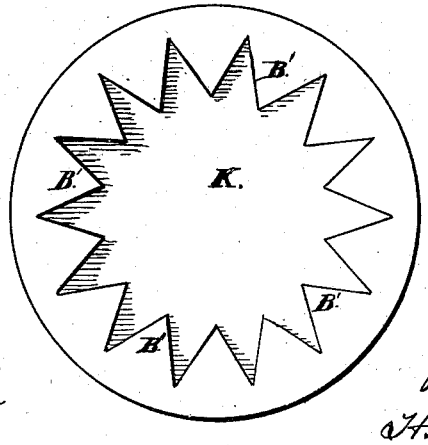


Fig. 2.



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by their attys.
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UNITED STATES PATENT OFFICE.

ROBERT A. ROGERS AND HENRY L. R. WOLF, OF DAYTON, OHIO.

IMPROVEMENT IN PAPER BOXES.

Specification forming part of Letters Patent No. **194,178**, dated August 14, 1877; application filed June 23, 1877.

To all whom it may concern:

Be it known that we, ROBERT A. ROGERS and HENRY L. R. WOLF, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Paper Vessels; and we do hereby declare the following to be a full, clear, and exact description of the same.

Our purpose is to produce a light and cheap paper or straw-board vessel which shall be more especially useful for holding and carrying ice-cream, berries, oysters, sirup, or the like, when wanted in small quantities for immediate custom use.

Our improvements consist in the construction and mode of fitting and securing the top and bottom of such a vessel, whereby we make it simple, strong, and practically impervious.

Figure 1 is a central sectional view in elevation of our improved vessel. Fig. 2 is a plan view of the bottom of the same, showing the projecting serrated edges hereinafter mentioned when they are folded over flat.

The body of the vessel A we construct in the usual manner of thick paper or straw-board, bent and secured in the desired shape, preferably round, having the lower portion scalloped or serrated, so as to avoid crimping when folded in all around, as shown in Fig. 2.

We make the top C of a single piece of straw-board of proper size and shape to fit the mouth of the vessel, and stiff enough to retain its shape when thrust into position.

A loop, D, or other suitable means for grasping and removing this lid, may be fastened on its upper or under side. Thus made, it is simply thrust into the mouth of the vessel, which is of proper size to receive and retain it. When thus thrust in it will somewhat distend the sides, and will act as a support to prevent their collapsing or being drawn out of shape by the weight of the contents when the vessel is carried by a suitable bail, E.

In addition to the advantage of preventing the bucket from collapsing, a cover so made and inserted practically excludes the air, which is very desirable when the contents are ice-cream or similar perishable substance.

As a further improvement, and to prevent the loss of the lid, it may be secured to the vessel by a diametrical strip of paper, ribbon, or the like, *f*, which is fastened to its under side, and has one projecting end, *g*, fixed to the edge of the vessel, as shown. The opposite projecting end D may form the loop by which the lid is raised.

We form the bottom as follows: A piece of Manila or other suitable paper, F, of sufficient thickness and stiffness, is cut out in proper shape to fit into the bottom of the vessel, but of somewhat greater size, so as to afford material enough to turn up a flange, G, of a quarter or half inch all around. This piece, with its flange thus turned, is covered on its under side with paste or glue and inserted in the vessel from the top, and is thrust down to the bottom, the flanged portion being turned upward and glued to the sides of the vessel. This forms the first or uppermost stratum or layer composing the bottom.

A simple piece of straw-board or similar material, K, of proper shape and size to fill the bottom and close it up, is then attached to the under side of this first layer, and the projecting notched edges B′ of the lower end of the vessel are then folded over, being first well covered with glue, to secure them when so so turned in. Thus is formed a smooth, uncrimped retaining-edge or support for the whole bottom.

By this arrangement we provide the vessel with a strong double bottom, secured both on the inside and outside, and which is impervious for quite a long time to liquids of greater density than water.

Having thus described our invention, we claim as follows:

1. In a paper or straw-board vessel, the top C, constructed as described, and provided on its under side with the strip *f*, which forms a hinge and grasping loop, substantially as and for the purpose specified.

2. In a paper or straw-board vessel, the bottom composed of the pieces F and K, se-

cured to each other and to the vessel by the flange G, and the notched or serrated edge B′, substantially as and for the purpose specified.

3. The herein-described vessel of paper or straw-board, composed of the body A, with serrated bottom edge, flanged bottom piece F, and supplemental piece K, and the top C, all constructed and united in the manner and for the purpose herein set forth and described.

Witness our hands this 12th day of June, A. D. 1877.

ROBERT A. ROGERS.
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Witnesses:
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