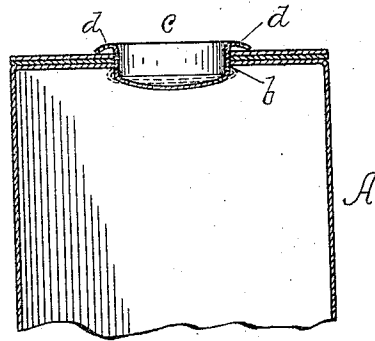


A. L. WEIS.
CLOSURE FOR PAPER PACKAGES.
APPLICATION FILED MAR. 27, 1911.

Patented May 5, 1914.

1,095,535.



WITNESSES.
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UNITED STATES PATENT OFFICE.

ANDREW L. WEIS, OF MONROE, MICHIGAN, ASSIGNOR TO THE WEIS-VAN WORMER COMPANY, A CORPORATION OF MICHIGAN.

CLOSURE FOR PAPER PACKAGES.

1.095,535.

Specification of Letters Patent.

Patented May 5, 1914.

Application filed March 27, 1911. Serial No. 617,280.

To all whom it may concern:

Be it known that I, ANDREW L. WEIS, a citizen of the United States, residing at Monroe, in the county of Monroe and State of Michigan, have invented certain new and useful Improvements in Closures for Paper Packages; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a box or bottle or package composed of paper or the like for containing solids, semi-liquids or liquids,—more especially the latter,—and is designed more particularly to furnish a cheap and simple closure or stopper for such package which shall be practically air-tight and, if desired, which can be so secured in place that it cannot be removed without destroying either the stopper or rupturing the package in such manner as to tend to prevent the fraudulent second use of the package.

I attain these objects by means of the construction and arrangement of parts hereinafter described, and shown and illustrated in the single figure of the accompanying drawing, which is a central, vertical, sectional elevation of a package of the character indicated, with the stopper, hereinafter referred to, in place.

The package or box or bottle A may be circular or angular in transverse section and when designed for use in containing liquids or semi-liquids is water-proofed, as with paraffin. The top or end of the package has therethrough a circular hole *b* which forms the mouth of the package. As a closure for this opening I employ a stopper *c* which is formed from a disk of tough stout paper, cardboard or other suitable material, pressed or otherwise formed into cup-shape and having a flange *d*. The stopper is coated all over with paraffin. In the coating operation, the groove formed by the meeting angle of

the cup-shaped portion and the flange, retains a thicker deposit of paraffin than the remaining surfaces of the stopper, which deposit aids in the subsequent hermetic sealing of the vessel, as hereinafter described. The cup is constructed to exactly fit the opening *b*. The side and bottom of the cup extend into and through the opening *b* with the flange *d* resting upon and covering the margin of the mouth, as shown in the drawing. This cup-shaped device is coated with paraffin. Now with a suitable tool, properly heated, the flange of the cup-shaped stopper is pressed flat against the margin of the hole *b* so that the inner side of the flange adheres to the end of the package, thus forming a tight joint. It will be observed that the bottom of the cup is not flat but is formed with enough material to permit the radial expansion of the bottom of the cup without rupturing it.

In case it is desired to make the package "non-refillable" a suitable tool, properly heated, is pressed into the cavity of the cup-like stopper and the wall of the cup, at its bottom, is permanently expanded, as illustrated in dotted lines in the drawing, so that the bottom of the stopper now becomes considerably wider than the opening and so that in opening the package the stopper or the top of the package, or both, will be visibly ruptured to such extent as to defeat subsequent improper use of the package.

The stopper here described is inexpensive and effective, and does not interfere with the packing of these devices one upon another.

In practice, the stopper *c*, including the flange *d*, is covered with a seal secured to the top of the package which further tends to preclude the refilling of the package with spurious goods.

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

A package of the described character, having an opening forming a mouth therefor, combined with a closure for such mouth comprising a cup-shaped flanged paraffined

stopper, having an expansible bottom, fitted
in said mouth with its flange adhesively se-
cured to the margin of the opening by the
application of heat, the wall and bottom of
5 the cup being laterally expanded within the
package to prevent the withdrawal of the
stopper.

In testimony whereof I affix my signature
in presence of two witnesses.

ANDREW L. WEIS.

Witnesses:

HARRY C. WEIS,
FRANK R. MORRIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."