

H. S. BREWINGTON.
 PAPER BOTTLE AND OTHER CONTAINER.
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937,141.

Patented Oct. 19, 1909.

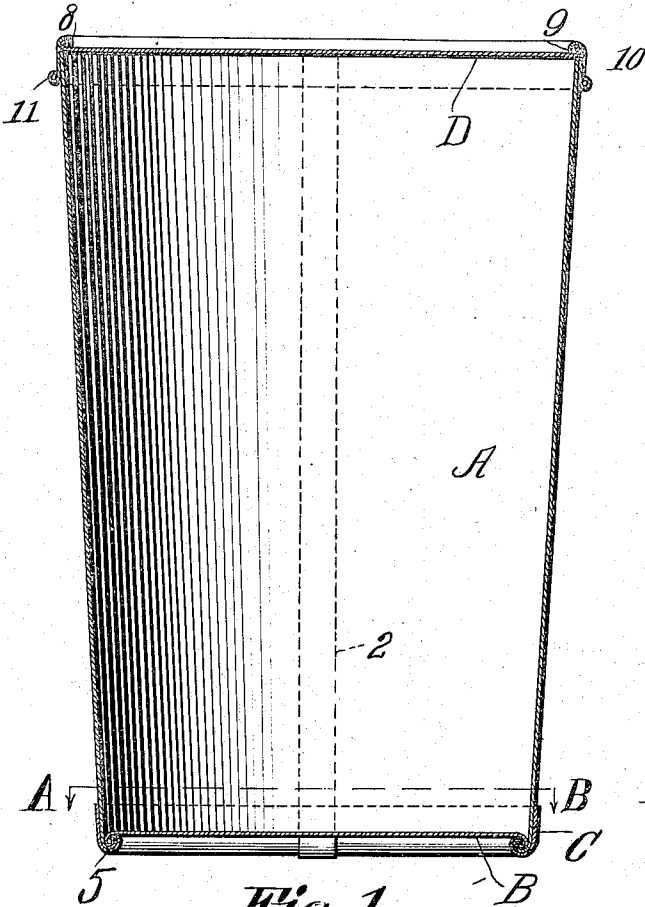


Fig. 1.

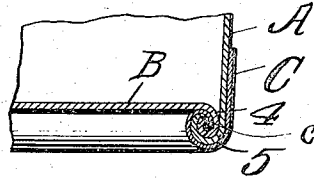


Fig. 3.

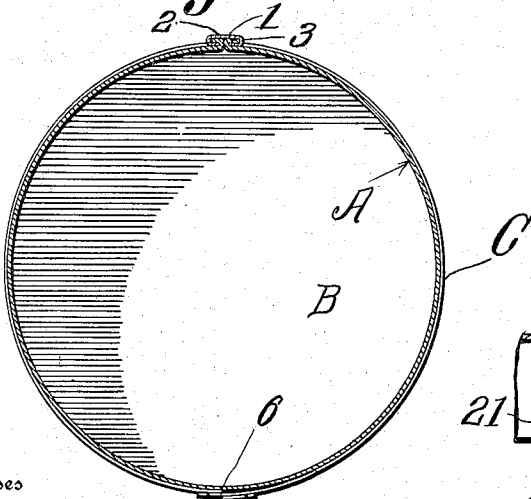


Fig. 2.

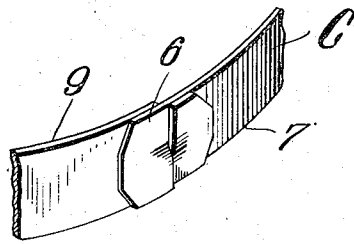


Fig. 4.

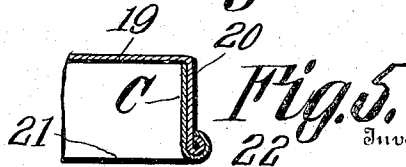


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

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PAPER BOTTLE AND OTHER CONTAINER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY S. BREWINGTON, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Paper Bottles and other Containers, of which the following is a specification.

My invention relates to an improvement in paper bottles, cups or other containers made substantially of paper or equivalent material, the object being to provide receptacles of this character which can be cheaply manufactured, and which will withstand the rough usage to which such articles are usually subjected.

My invention is particularly designed to take the place of articles heretofore made of glass or tin and is to be used as a temporary container.

With the foregoing objects in view, my invention consists in certain novel features of construction and combinations of parts which will be more particularly pointed out and set forth in the appended claims.

Reference being had in the accompanying drawings forming a part of this specification, Figure 1 is a view of a container constructed in accordance with my invention; Fig. 2 is a sectional plan view on the line A—B of Fig. 1; Fig. 3 is a sectional view on an enlarged scale, illustrating the manner of rolling the joint; Fig. 4 is a detail perspective view of the interlocking ends of the metal strip or band; and Fig. 5 is a sectional view of a modified form of a cover.

Referring in the first instance to Figs. 1 and 2, A indicates a tubular body portion, which is made from paper or some equivalent material, and given the proper taper, or if preferred, it may be made in the form of a cylindrical tube of even diameter throughout. The edges of the body portion are secured together by first bending them back upon the body part as indicated at 1, and by inserting and locking the said bent portion 1 in the recessed edges of the locking strip 2, which consists of a strip of sheet metal bent inwardly lengthwise along both edges, so as to form grooves or recesses 3, in which the edges 1 of the body part A are inserted and locked, by compressing the sides of the grooves or recesses upon the inclosed ends. It is also understood that the said body part may be made from a cylindrical seamless tube which may be tapered or

otherwise, as may be desired, but owing to the cheapness in cost at which this part of the device may be manufactured, as compared with the cost in the manufacture of seamless tubing, I have shown this as the form I prefer to use in the construction of my invention. B indicates a bottom, and is made of material similar to that of the body part, (but of heavier material if desired). The bottom B is primarily formed with a downwardly projecting extremity or flange 4, the bottom being set up within the lower end portion 5 of the body part a distance equal to the depth of the extremity 4. C is a metal band secured around the lower end portion 5, by means of the interlocking joint 6, the lower edge 7 of the band projecting beyond the flange 4 and the lower bottom portion 5. When the bottom has been thus located within the lower end portion 5, and the band C secured around the said bottom portion as above described, the flange 4, the lower end portion 5 of the body part, and the band C are placed in a suitable machine or die, and rolled over and inward together on a curve, and in under the bottom B, and the lower portion *c* of said band bent downward substantially parallel with the interior surface of the body-portion A to securely lock the bottom and lower end portion of the body part together. By rolling the portion 7 of the band over the extremity 4, and body part 5, and inward under the bottom, I am enabled to secure superior strength, tightness and compactness of joint. By making the edge 7 of the band C extend below the extremity of the flange 4, and body part 5, I am enabled to roll the edge 7 over and above the flange and body part, and hold the flange and body part firmly and securely together, making a water tight joint. The bending downward of the lower portion *c* of said band C is important, as it effectually seals or locks the curl of the paper against uncurling.

One of the features which distinguishes my invention from devices of an analogous nature is the simultaneous rolling of the lower portion of the metal band, the flange 4, and the lower part of the body portion A. This capability of simultaneous rolling of the parts referred to, results, it is obvious, in a saving of time in the manufacture of the containers by shortening the number of steps in the making of the containers.

Removably secured on the upper end of

the container A, is a cover D, the construction of the body part thereof corresponding with that of the bottom B, save that the extremity or flange 8 thereon, is extended reverse to the extremity or flange 4 on the bottom, and is provided with a band C, similar to that on the bottom. The top edge 9 of the band is rolled over inward together with and on a curve and over the said flange, the edge 9 of the band engaging with the said flange forming a tight and compact joint. The lower edge of the band forms a depending flange 10, by means of which the cover is secured on the container. The lower edge of the depending flange is rolled outwardly over on itself to form a bead 11, thereby securing a special stiffness to the cover, also affording a means by which the removal of the cover is facilitated.

In Fig. 5 is shown a modified form of a cover. In this instance, I have provided a cover 19 having a depending flange 20, and having the band C secured on the inner side of the flange. The lower edge 21 of the band C and the flange 20 are rolled over and outward together on a curve to form a bead 22. This construction practically accomplishes the purposes set forth in the description of the preferred form of cover.

Slight changes and alterations might be resorted to as to the form and arrangement of the several parts described without departing from the spirit and scope of my invention, hence I do not wish to limit myself to the exact construction as herein set forth; but,

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A container, comprising a tubular paper body-portion, a paper bottom provided

with a depending flange, inserted within the lower part of said body-portion, and a metal band exteriorly encircling the body-portion and projecting below the lower extremity thereof, said projecting part of the band, as well as said flange and said lower extremity of the said body-portion, being rolled on a curve under said bottom and inward and interiorly relative to the tubular body-portion, a portion of said inward-rolled portion of the band being bent downward substantially parallel with the interior surface of said body-portion, whereby the curl of the paper, so formed, is sealed and locked against uncurling.

2. A container comprising a tubular, paper body-portion, a paper-cover provided with a flange, a metal band encircling said body-portion, one extremity of said metal band being simultaneously rolled with the said cover-flange, on a curve, whereby the rolling of the band maintains the curl of the paper against uncurling, and means carried by said band for facilitating removal of the cover.

3. A container comprising a tubular, paper body-portion, a paper-cover provided with a flange, a metal band encircling said body-portion, one extremity of said metal band being simultaneously rolled with the said cover-flange, on a curve, whereby the rolling of the band maintains the curl of the paper against uncurling; said band being provided with a rolled extremity for facilitating removal of the cover.

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

HENRY S. BREWINGTON.

Witnesses:

MARY M. MAGRAW,
HARRIET S. MAGRAW.