May 22, 1923.

1,456,424

F. COATES

PAPER OR PULP CONTAINER

Filed June 21, 1920

FIG. 1

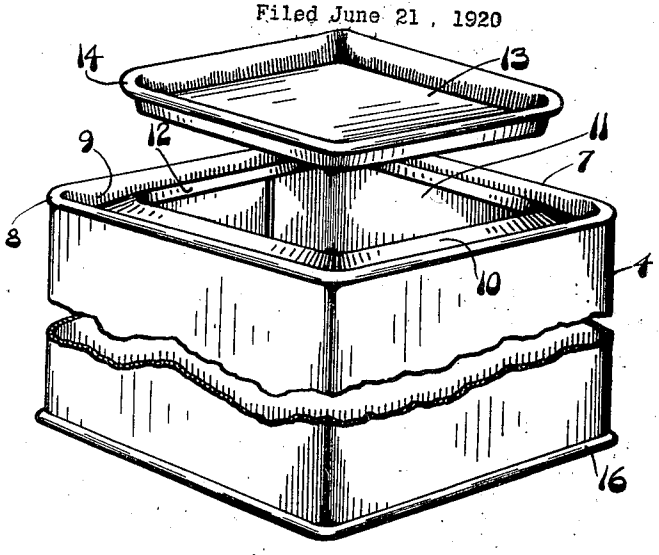


FIG. 2

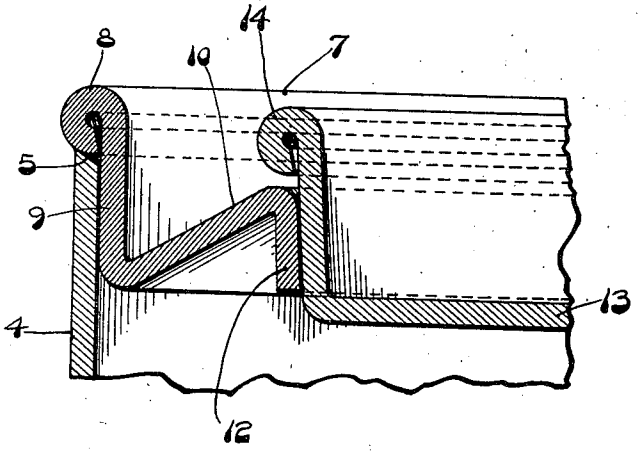
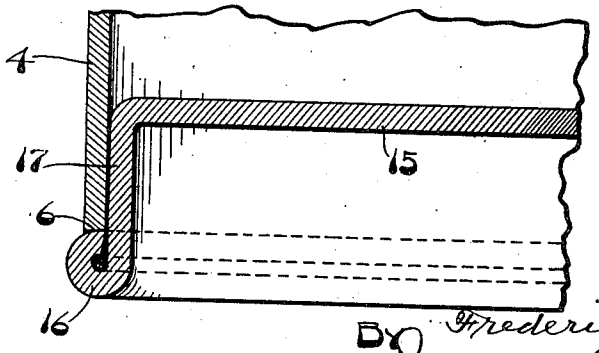


FIG. 3



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Patented May 22, 1923. 1,456,424

UNITED STATES PATENT OFFICE.

FREDERICK COATES, OF WYOMING, OHIO, ASSIGNOR TO THE FEDERAL PRODUCTS COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

PAPER OR PULP CONTAINER.

Application filed June 21, 1920. Serial No. 390,615.

To all whom it may concern:

Be it known that I, FREDERICK COATES, a citizen of the United States, residing at Wyoming, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Paper or Pulp Containers, of which the following is a specification.

My invention relates particularly to the construction of the heads or ends and means for joining and securing the body and heads or ends.

The object of my invention is to provide a simple, attractive, strong, durable and economically constructed container, head or top or bottom, which is adapted to snugly fit therein and form a neat and secure fit against the end of the container body and be firmly held therein against accidental or unintentional removal, by an adhesive interposed between the body and head.

Another object of the invention is to provide a top of special construction adapted to receive an insert lid of peculiar formation adapted to be easily and conveniently inserted or removed and to form a close non-leaking fit therein.

My invention consists in the construction, combination and arrangement of parts as herein set forth and claimed.

In the drawing:

Fig. 1 is a perspective view of a container broken away centrally and showing the insert lid removed ready for insertion;

Fig. 2 is an enlarged detail in vertical section, showing a part of the upper portion of the container with the top and insert lid in closed position therein; and

Fig. 3 is a similar view of the bottom end of the container.

In the embodiment of my invention, as illustrated, and which shows a preferred construction, the container body 4, is formed of paper or pulp in substantially the shape shown or in any other polygonal, cylindrical or other form desired. The end 5 of the container is preferably beveled as shown in Fig. 2 in order to form a neater and more perfect union with the head, but it may be formed at right angles to said body as shown at 6 in Fig. 3.

The top 7 of the container is preferably constructed with its upper edge 8 of substantially tubular or cylindrical formation having a downwardly extending rim 9 and an upwardly inclined portion 10 extending toward the central opening 11 and having a downwardly extending bearing flange 12. The insert lid 13 is of cup-shaped formation and is provided on its upper edge with an outwardly extending tubular rim 14 and when inserted, preferably rests in the position shown in Fig. 2 with the rim 14 spaced apart from the upwardly inclined portion 10 to permit the insertion of any convenient instrument for prying it open.

The bottom 15 is preferably in the shape of an inverted cup and has a tubular or cylindrical rim 16 upon its lower edge adapted when inserted in the end of container 4, to form a snug fit between the flange 17 and tubular rim 16 with the lower portion of the container body 4.

The top 7 and bottom 15 are preferably permanently secured in place by means of adhesive material interposed between said members, respectively, and the container body with a suitable pressure applied to securely bind said parts together.

When the end of the container is beveled, as shown in Fig. 2, the outwardly turned tubular rim 8, when inserted in position, will wedge downwardly upon the beveled surface and thereby form a neat, shapely and snug fit between said members, and glue, or other adhesive, having been first applied, it will fill the space between the lower end of said bevel and tubular rim and insure against any leakage or disruption of the members under ordinary strains or stresses.

By constructing the top 7 with a downwardly extending rim 9 having an upwardly inclined portion 10 and a downwardly turned bearing flange 12, a maximum of engaging and binding surface between the top, container body, and insert lid, respectively, is obtained, while at the same time, minimizing in the amount of interior space required for the top and insert lid.

While I have shown and described a rectangular insert lid, it will be understood that the form thereof may be varied to conform to the shape of the container or otherwise as desired.

When the end of the container body is formed, at right angles thereto or substantially so, the tubular rim will fit more closely thereto but there will be, in either construction, an ample amount of glue or

adhesive penetrating the tubular portion, thereby holding it securely in position relative to the body.

A suitable sealing compound is preferably applied to the inner bearing surface of flange 12, which when the insert lid is inserted therein, will securely seal the contents and hold the lid in place, while at the same time permitting the lid to be readily pried open when desired. After the lid is removed for using the contents, the sealing compound will remain and re-seal the lid whenever inserted, thus allowing frequent opening of the container without impairing its sealing qualities.

While I have shown and described a particular construction and arrangement, it will be understood that my invention is capable of modification without departing from its scope or spirit.

What I claim as new and desire to secure by Letters Patent is:

1. A paper or pulp container comprising a paper or pulp body having an inwardly beveled end, a paper or pulp cup shaped head having a tubular edge adapted to form wedging engagement with said beveled end and having an adhesive interposed between said body and head to form a permanent non-leaking joint, substantially as set forth and for the purposes specified.

2. In a paper or pulp container, the combination of a paper or pulp body having its ends beveled inwardly, a paper or pulp top having an outwardly turned tubular edge with downwardly extending rim and an inwardly inclined portion having an inwardly turned flange, said rim closely fitting within said body and having its rim in wedging engagement with said beveled end and a cup shaped insert lid inserted in an opening in said top and having a tubular rim resting over and spaced apart from said top when inserted to provide convenient means for removing it, substantially as set forth and for the purposes specified.

FREDERICK COATES.