

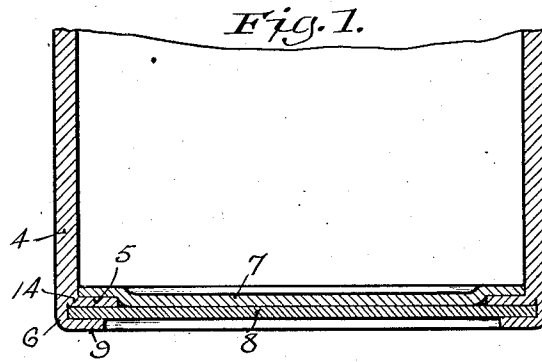
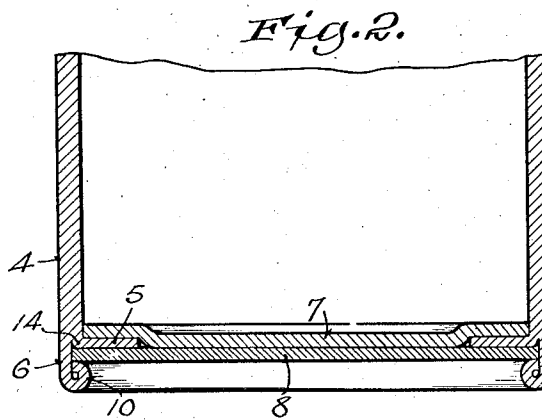
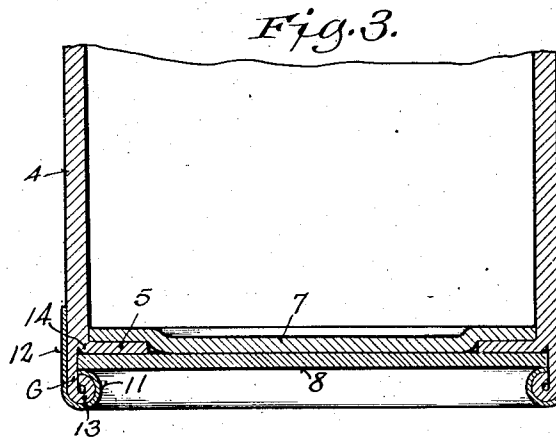
May 7, 1929.

E. F. HULBERT

1,711,642

CONTAINER CLOSURE

Filed Dec. 1, 1924



INVENTOR.

Edwin F. Hulbert

By

Charles French

ATTORNEYS

Patented May 7, 1929.

1,711,642

UNITED STATES PATENT OFFICE.

EDWIN F. HULBERT, OF MILWAUKEE, WISCONSIN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE MASTER PACKAGE CORPORATION, OF DELAWARE.

CONTAINER CLOSURE.

Application filed December 1, 1924. Serial No. 753,194.

The invention relates to containers, and more particularly to a fibre or paper container.

As usually constructed, containers of this character have heads which are secured to the plain walls of the container by gluing or by special fasteners or metal bands. The object of this invention is to depart materially from the usual practice and produce a closed-end container of simple but very strong construction in which the closed end of the container becomes a part of the siding by using more or less of the siding as a part of the end closure and in such a way that the heads forming the closure are efficiently secured in position and form with the siding a unitary structure.

The invention further consists in the several features hereinafter set forth and more particularly defined by claim at the conclusion hereof.

In the drawings: Fig. 1 is a vertical sectional view of a container embodying the invention; Fig. 2 is a view similar to Fig. 1 with a part of the siding crimped against the head; Fig. 3 is a view similar to Fig. 2 showing a wear band associated therewith.

The subject matter of the invention relates to the end closure of the cover or body of the box and, as such means may be identical for either the cover or the body of the box, the box or container alone has been shown in detail for the purpose of explaining the invention.

The sides 4 of the box, as well as the sides of the cover, are composed of fibre, either made of pressed pulp or of a number of wrappings of paper or fibre sheets, and preferably in the form of tubing, either cylindrical or polygonal in cross section, the drawing showing cylindrical tubing.

In each instance one end of this tubing is split or otherwise suitably separated to form separate wall portions, the inner wall portion being turned or bent inwardly to form an inwardly extending annular flange or head portion 5, preferably coextensive with the siding and extending at an angle to the outer wall portion 6. The thickness of the flange portion 5 and its width may be varied to suit requirements.

With the flange portion 5 bent inwardly, inner and outer head members 7 and 8 are secured thereto in any suitable manner, as by adhesive and preferably under pressure.

The inner head 7 is adapted to fit or conform with the shape of the inner wall of the container and the outer head is adapted to fit or conform with the shape of the inner side of the outer wall portion 6. Where the flange portion 5 extends only partly across the bottom of the container, as shown in the drawings, the central parts of the heads 7 and 8 are pressed into contact with each other and secured together in any suitable manner, as by adhesive.

The outer wall portion 6 of the siding is also preferably bent down against the outer head, as shown at 9 in Fig. 1, or is crimped against the head, as at 10 in Fig. 2, or it may be crimped with the edge 11 of a sheet metal wear band or sheathing 12, of a shape to conform with the outer wall of the siding, over against the outer head, as at 13 in Fig. 3, so as to form a retainer for said outer head.

With this construction it will be noted that an integral part of the siding forms a seating flange for the inner head 6 and that the outer head 7 abuts against a shoulder 14 formed in the siding by the flange portion 5, and that the outer head is secured against outward movement by a part of the siding, or by a part of the siding and a wear band associated therewith. By this construction it will be noted that it would be necessary to tear the heads 7 and 6 from the flange portion 5 in order to remove or release them, and that the siding is efficiently combined with the heads to form a unitary closure structure either for the cover or an end of a container.

I have used the term "band" in this specification to include broadly a ring or strip, the ring form being used on a cylindrical container while the strip form may be used on containers having polygonal-shaped tubing or siding.

I desire it to be understood that this invention is not to be limited to any specific form or arrangement of parts except in so far as such limitations are included in the claim.

What I claim as my invention is:

In a container, the combination of inner and outer head members, and siding having an integral closure flange coextensive with the siding, and secured between said inner and outer head members, a metal sheathing, a part of said siding being crimped with said sheathing against the outer head member.

In testimony whereof, I affix my signature.
EDWIN F. HULBERT.