No. 766,091. PATENTED JULY 26, 1904.

C. C. WOODS.

CAP FOR RETAINING VESSELS.

APPLICATION FILED JULY 8, 1903.

NO MODEL.

Fig. 1

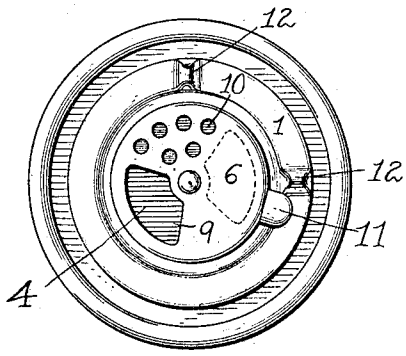


Fig. 2

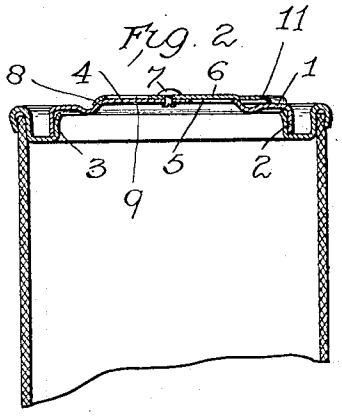
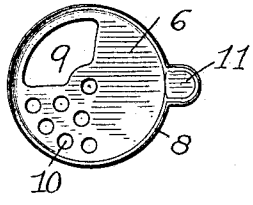


Fig. 3.



Attest:
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No. 766,091. Patented July 26, 1904.

UNITED STATES PATENT OFFICE.

CHARLES CHESEBROUGH WOODS, OF EASTON, PENNSYLVANIA, ASSIGNOR TO CANISTER MANUFACTURING COMPANY, OF EASTON, PENNSYLVANIA.

CAP FOR RETAINING VESSELS.

SPECIFICATION forming part of Letters Patent No. 766,091, dated July 26, 1904.

Application filed July 8, 1903. Serial No. 164,709. (No model.)

To all whom it may concern.

Be it known that I, CHARLES CHESEBROUGH WOODS, a citizen of the United States, residing at Easton, Pennsylvania, have invented certain new and useful Improvements in Caps for Retaining Vessels, of which the following is a specification.

My invention relates to packing vessels, and particularly to that class designed to hold powders and having a series of perforations in the head through which the powder may be distributed in discharging the same.

My invention relates particularly to the cap attached to the head of the packing vessel and to the means for closing the perforations in the said cap, the object being to provide a closing-plate which when in closed position will effectually prevent the sifting of the contents through the cap and which may be readily operated and will always maintain its close contact with the cap to prevent any discharge of the material when the closing-plate is in closed position.

The invention consists in the features and combination and arrangement of parts hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of the invention. Fig. 2 is a sectional view through the cap, and Fig. 3 is a bottom plan view of the closing-plate.

The cap 1 is provided with a flange 2, fitting over an upturned flange 3 on the head of the can, and this cap is applied to the head by driving the same thereon, the flange of the cap and flange of the head fitting tightly. The cap is provided with a central raised portion 4, and in this raised portion an opening 5 is provided for the discharge of the contents of the receptacle. Over this raised portion a closing-plate 6 is arranged, held thereto by a central rivet 7, which permits the closing-plate to rotate on the raised portion of the cap, the closing-plate at its main or flat upper portion fitting closely upon the raised portion of the cap, and it has a flange extending downwardly and slightly flaring outwardly, as at 8, to fit the shoulder around the edge of the raised portion of the cap, and this flange fits the said shoulder closely. The closing-plate has an opening 9, adapted in size to correspond with that in the cap for the discharge of the material, and also has a series of perforations 10, which are adapted to overlie the opening in the cap, and thus provide for the sifting or shaking of the material over the surface desired. The closing-plate also has a finger-piece or lip 11 extending laterally therefrom and slightly below the plane of the upper surface of the closing-plate, and this finger-piece is also provided with a flange extending downwardly. The finger-piece is adapted to strike the side of stops 12, formed by striking up the metal of the cap-piece to form rounded projections. The feature of forming the closing-plate with a flange around its edge is of material importance, as this flange lies close to the face of the shoulder on the raised portion of the cap and tends to prevent sifting of the powder between the faces of the closure and the cap, and in addition to this the flange serves to stiffen the closing-plate, and this is of vital importance, as by this the plate is prevented from springing up and separating at its edge from the cap.

My invention is clearly distinguished from other forms of closing-plates which consist of plates ending in a plane edge and which under the strain resulting from turning the plate are liable to be bent up, and thus leave openings between the closing-plate and the cap through which the powder may sift. In my invention, however, the plate stiffened by the flange will maintain its shape, and not only this the flange reaching down over the edge of the raised portion will provide an additional means for closing the crevice between the closing-plate and the cap-plate.

The flanged formation of the projection or lip to which the turning force is applied serves to stiffen the same and also presents the edges of the said lip or finger piece downwardly, so that said edges will not be exposed for contact with the fingers and the fingers of the operator will not be hurt thereby.

In devices of this character it has been cus-

tomary heretofore to provide stopping means by having a lip adapted to spring up onto and over projections on the head or cap. In my improvement, however, I provide a positive stop by the finger-piece coming in contact with the side of the projections of the cap, and by this not only is certainty in the stopping operation secured, but there is no tendency for springing up of the closing-plate by having the stop ride up onto a projection of the cap.

I do not wish to limit myself to the particular form of cap shown nor to the particular form of closing-plate which may have openings other than those shown and may have its operating-finger differently arranged, and also the means for stopping the rotary movement of the closing-plate may be altered without departing from the spirit of my invention.

I claim—

1. In combination, a cap for packing vessels having a central raised portion forming an annular shoulder, a closing-plate having a depending flange surrounding the said shoulder and a lug on the closing-plate having a depending flange forming a continuation of the flange on the closing-plate, substantially as described.

2. In combination, a cap for packing vessels having a central raised portion with an opening therein and a low portion with stops projecting up therefrom, a closing-plate having a marginal flange depending therefrom and surrounding the shoulder formed between the raised and low portions of the cap, said closing-plate having a lug projecting therefrom over the low part of the cap, said lug having its margin flanged, and arranged to strike the stops, substantially as described.

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

CHARLES CHESEBROUGH WOODS.

Witnesses:
JAMES ADAMS,
R. W. DARNELL.