

June 9, 1925.

O. GOTTSCHALK
CLOSURE FOR CONTAINERS

Filed March 13, 1924

1,540,833

Fig. 1.

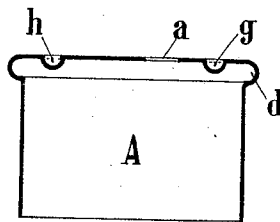


Fig. 2.

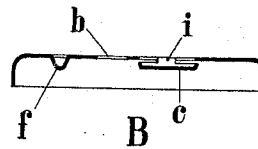


Fig. 1a.

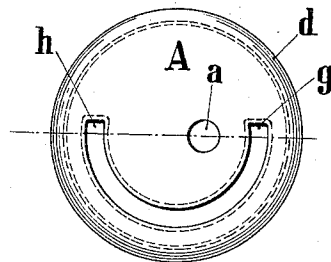


Fig. 2a.

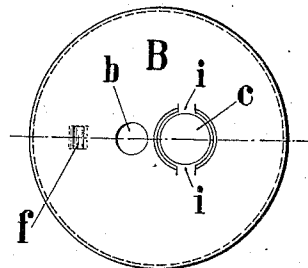
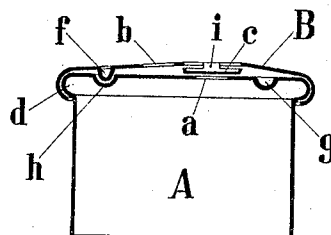


Fig. 3.



Inventor :

Otto Gottschalk
By *Frederick M. ...*
Attorney

UNITED STATES PATENT OFFICE.

OTTO GOTTSCHALK, OF DRESDEN, GERMANY.

CLOSURE FOR CONTAINERS.

Application filed March 13, 1924. Serial No. 698,972.

To all whom it may concern:

Be it known that I, OTTO GOTTSCHALK, a citizen of the German Republic, residing at Dresden, Germany, have invented certain new and useful Improvements in Closures for Containers, of which the following is a specification.

This invention relates to a contrivance for closing sprinkling bottles and similar hollow vessels in which on the cap fixed on the bottle neck a cover is rotatably mounted, the cap and the rotatable cover having both an eccentrically arranged outflow orifice which, registering the one with the other, permit the outflowing of the liquid but otherwise shut the same off. In contrivances of known type a separate packing body is inserted between the cap and the cover, whereby the cost of manufacturing is increased. This arrangement does not absolutely prevent leakage.

The closing contrivance according to the invention consists merely of the cap and of the cover, the packing being ensured by an elastic flap partly separated from the cover and connected with the same only by two strips situated both in one central axis. The cost of manufacturing of the closing contrivance is thus considerably decreased and the construction is much simplified, the packing being very reliable and lasting.

An embodiment of the invention is shown by way of example on the accompanying drawing in which:

Figs. 1 and 1^a show the cap of the closing contrivance, and

Figs. 2 and 2^a the corresponding cover in section and in plan view respectively.

Fig. 3 shows the two parts assembled.

The cap A, which is securely fixed on the bottle neck, has at the upper end a circular bead *d* on which the edge of the cover B is fixed by being narrowed. In the cap A an orifice *a* is arranged and an orifice *b* in the cover B, said orifices being eccentric and

adapted to be brought into register by rotating the cover B on the cap A. The rotation of the cover on the cap is limited by a stop *f* of the cover engaging with an annular groove in the cap. When the cover is in the one extreme position the orifices *a* and *b* register.

The orifice *a* is packed by means of an elastic flap *c* cut out of the cover B by stamping. The elasticity of the flap is ensured by means of two strips *i* connecting the flap with the cover. These strips *i* stand perpendicularly to the line of symmetry of the cover (Fig. 2^a). The flap *c* covers in the other extreme position of the cover the orifice *a* and is securely pressed on the cover by the elasticity of the cover which is slightly vaulted whereby an air-tight closing of the bottle neck is ensured. The packing pressure is exerted only at the point where it is really required, and the flap owing to its elasticity is capable to adapt itself accurately to the surface of the cap. The pressure produced in the manner described between the cap A and the cover B is quite sufficient to secure the cover against accidental rotation but it is not strong enough to impede the rotatability of the cover.

I claim:—

A contrivance for closing sprinkling bottles and similar hollow vessels comprising in combination a cap securely fixed on the bottle neck and having an eccentric orifice in its top plate, a cover rotatably mounted on said cap and having an eccentric orifice, an elastic flap stamped out of said cover and two oppositely situated strips connecting said flap with said cover.

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

OTTO GOTTSCHALK.

Witnesses:

W. THATCHER,
U. A. SKINNER.