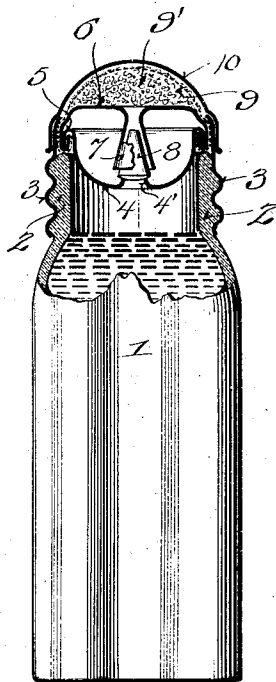


W. C. URBANEK.
 POROUS HEAD FOR CONTAINERS.
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1,054,950.

Patented Mar. 4, 1913.



Witnessed:
 Casimir Young.
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UNITED STATES PATENT OFFICE.

WENZEL C. URBANEK, OF MANITOWOC, WISCONSIN.

POROUS HEAD FOR CONTAINERS.

1,054,950.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WENZEL C. URBANEK, a citizen of the United States, and resident of Manitowoc, in the county of Manitowoc and State of Wisconsin, have invented certain new and useful Improvements in Porous Heads for Containers; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple, economical and effective valve-controlled porous head for fluid-containers, the same being adapted to receive fluid-dressings or analogous liquids chemically prepared whereby said liquids can be applied directly to articles being treated, the device being especially adapted for use in connection with cleaning fluids, which fluids are distributed to the head incidental to inversion of the container whereby the said head is saturated.

In carrying out my invention I provide a conical gravity-controlled double-seating valve-member, which valve member is loosely nested within a conical discharge nipple that projects into an auxiliary liquid containing reservoir constituting part of the head, said conical nipple being alined with a lower feed aperture in the reservoir wall, which aperture is normally closed by the valve-member whereby a quantity of fluid is trapped within said reservoir even though the valve is imperfectly seated, while at the same time the main body of the fluid within the container or vessel is practically sealed against evaporation.

Another object of my invention is to form the chamber portion of the head in two parts whereby cheapness of construction will result due to ready assemblage of said parts in conjunction with a container shank which may be threaded or otherwise.

With the above objects in view the invention consists in certain peculiarities of construction and combination of parts as set forth hereinafter with reference to the accompanying drawings and subsequently claimed.

The accompanying drawing represents an elevation of a container partly broken away and in section provided with a porous head embodying the features of my invention, the head being illustrated in section.

Referring by characters to the drawing 1 represents a vessel or container provided with a screw-threaded neck 2 to which neck

is fitted the threaded flange 3 of a porous head embodying my invention. The head is formed with a lower concavo-convex wall 4 that is provided with a centrally disposed aperture formed by an upturned lip 4', the terminal edge of which is slightly above the lowest plane of the wall. The upper edge of this wall is connected by a seam-joint 5 to an upper wall 6, which wall is provided with a centrally disposed conical discharge nipple 7, the same being flared outwardly at its lower end in alinement with the lower wall aperture and at a slight distance therefrom. Loosely fitted within the conical discharge nipple is a conical valve-plug 8, the lower face of which is adapted to seat against the upper edge of the lip 4' about the lower wall aperture, while the conical face of said valve-plug is arranged to seat against the inner wall of the nipple incidental to the vessel being inverted. By this construction it will be observed that the upper and lower walls 6 and 4 respectively, form an auxiliary reservoir within the head, the feed and discharge apertures being controlled by the valve-plug.

The edges of a porous jacket 9 are crimped within the seam-joint 5 as shown and interposed between the jacket and upper wall 6 of the reservoir there is a filling or pad of absorbent material 9', which material is normally saturated with the liquid that is fed through the discharge nipple. After the edges of the jacket 9 have been secured to the seam, the upper inturned edge of the flange 3 is adjusted to the seam, whereby the jacket is further secured and the parts drawn tightly together due to the fact that as said shank is screwed into position it will cause the lower edge of the seam 5 to seat securely upon the mouth of the container.

As shown I also provide a slip cover 10 which is fitted over the jacket 9 and upper portion of the shank 3 whereby the moist pad is protected incidental to the container or vessel being shipped.

From the foregoing description it is apparent that incidental to the container being inverted a certain quantity of the liquid will pass into the reservoir and from thence to the pad, whereby the same is thoroughly saturated and the liquid can be readily applied to the article to be cleaned or treated. A small quantity of the liquid will be trapped within the reservoir incidental to the valve 8 being seated about the feed aper-

ture and hence it will be observed that the contents of the bottle will be prevented from evaporation. Should the vessel be inadvertently dropped upon its side there will be no appreciable leakage owing to the fact that the pressure of the liquid will cause the valve-plug to seat within the nipple and the small quantity of liquid which will escape through the feed-nozzle will be trapped within the reservoir. It is also apparent that should the moisture in the pad be exhausted that the operator can, by slightly gyrating the container cause more of the liquid to be fed thereto.

15 I claim:

20 A porous head for liquid containers comprising a concavo-convexed lower wall section having an upturned lipped feed aperture centrally thereof, an upper wall section in seamed engagement with the lower wall section, the upper wall section being provided with a centrally disposed depending conical discharge nipple, said wall sec-

tions constituting a reservoir, a conical valve-plug loosely nested within the nipple adapted to serve alternately as a closure for said nipple and feed aperture, a pad of absorbent material fitted over the outer face of the upper wall section, a porous jacket fitted over the pad having its edges secured within the seam of the two wall sections, and a detachable threaded flange fitted over the wall section seam engageable with the porous jacket, whereby said jacket and the pad are secured to the reservoir, the threads of the flange being provided for attachment to the head of a container.

In testimony that I claim the foregoing I have hereunto set my hand at Manitowoc in the county of Manitowoc and State of Wisconsin in the presence of two witnesses.

WENZEL C. URBANEK.

Witnesses:

WALTER ELLWOOD ZEISCHOLD,
ARTHUR JOHN SCHMIDT.