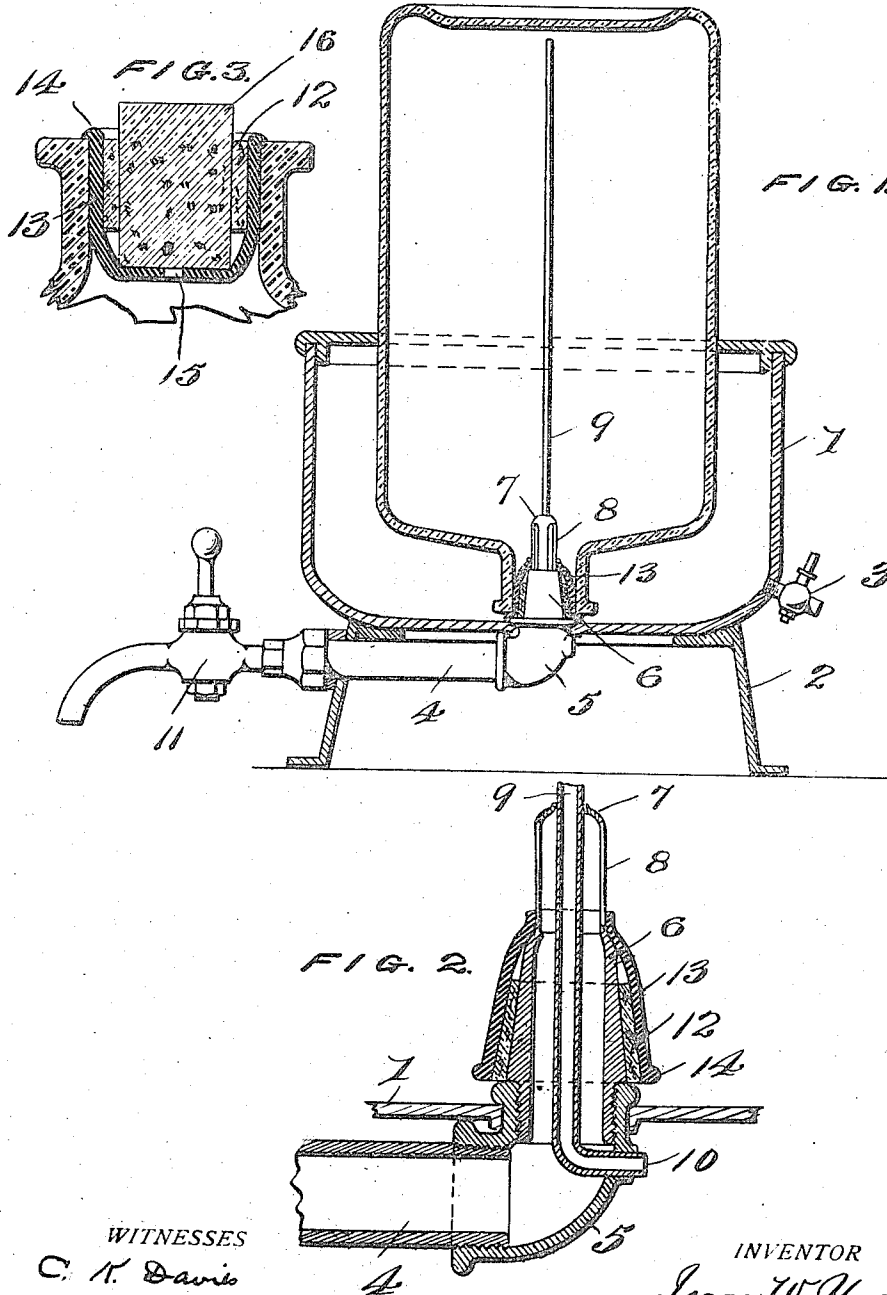


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LIQUID DISPENSING APPLIANCE.  
APPLICATION FILED APR. 8, 1909.

948,883.

Patented Feb. 8, 1910.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## LIQUID-DISPENSING APPLIANCE.

948,883.

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*To all whom it may concern:*

Be it known that I, ISAAC W. HUGHES, a citizen of the United States, and resident of the city of Trenton, in the State of New Jersey, have invented a new and useful improvement in Fluid-Dispensing Appliances, of which the following is a specification.

My invention relates to appliances for dispensing fluid and is particularly adapted for dispensing water from bottles, using the original bottle as a container for the water in connection with my appliance.

The invention is hereinafter fully described in connection with the accompanying drawing which illustrates an exemplifying structure embodying the invention.

Figure 1 is a vertical section of the dispensing apparatus. Fig. 2 is an enlarged sectional view of a portion of the elbowed pipe and associated parts. Fig. 3 is a section of the neck of a bottle showing the rubber thimble, cork gasket and stopper in position.

Reference character 1 designates any suitable ice containing vessel having a base 2 and provided with a drain cock 3. Suitably supported in relation to the ice container and base is a discharge pipe 4 provided with an elbow 5 terminating in a tapered nipple 6. Extending upward from the nipple is an extension or spreader 7 provided with longitudinal apertures 8 communicating with the interior of the nipple. Vent pipe 9 located within the vertical branch of the discharge pipe passes upward through the spreader 7 and extends a distance approximately equal to that from the end of the spreader to the bottom of a bottle which may be inverted over the nipple. The other end 10 of the vent pipe passes through the discharge pipe at a convenient point, for instance through the elbow 5 and communicates with the atmosphere. The discharge pipe 4 is provided with any suitable faucet or valve 11 to regulate the discharge of water from the pipe.

To cooperate with the nipple 6 I provide a gasket 12 of cork or other suitable material which encircles the nipple and a thimble 13 of rubber or other suitable material which has a ribbed base 14 and a small perforation 15 in one end. The thimble fits over the gasket. When a bottle is in operative position in relation to the appliance as shown in Fig. 1 the neck of the bottle encircles the rubber thimble and compresses the thimble

and cork gasket closely on the nipple 6 forming a water-tight connection. The aperture 15 in the end of the thimble is distended by passing over the extension of spreader 7 and the openings 8 in the spreader afford a fluid passage from the interior of the bottle to the discharge pipe 4.

The gasket and thimble which form a part of the invention may be placed in the bottles when the bottles are originally filled and shipped as shown in Fig. 3. An additional stopper 16 is used in this case to close the opening within the cork gasket. When a bottle is thus equipped, to put it in operative position it is only necessary to remove the stopper and invert the bottle. A very small part of the contents of the bottle will escape when it is inverted because of the small size of the aperture 15 in the thimble. This aperture is passed over the upper end of vent pipe 9 and the bottle is lowered until nipple 6 fits squarely within the cork gasket as shown in Fig. 1.

The discharge pipe provided with the nipple, expander and vent pipe and the gasket and thimble as described may be used in connection with other forms of tanks or coolers and other considerable variations may be made in the construction of the invention without departing therefrom.

I claim:

1. In fluid dispensing apparatus, the combination of an elbowed pipe, a nipple at one end of the pipe and an apertured extension on the nipple, a vent pipe within the elbowed pipe, one end of which extends through and a considerable distance beyond the extension and the other end of which terminates outside the elbowed pipe, a gasket on the nipple and a rubber thimble surrounding the gasket.

2. A discharge pipe having one end bent at a right angle and terminating in a nipple, an apertured extension on the nipple, an inverted bottle with its neck around the nipple, a gasket surrounding the nipple and a thimble between the gasket and the neck of the bottle, and a vent pipe within the discharge pipe terminating outside of said discharge pipe and at the other end within and near the upper end of the inverted bottle.

3. Fluid dispensing apparatus constructed and arranged to hold a bottle in inverted position, comprising an ice reservoir pro-

- vided with a base, a discharge pipe supported by the base and having a nipple extending within the reservoir, an apertured extension connected with the nipple, a vent  
5 pipe terminating at one end outside the discharge pipe and at the other end a considerable distance above the end of the extension, a gasket on the nipple and a thimble surrounding the gasket.
- 10 4. The combination of a bottle and a closure therefor adapted to cooperate with dispensing apparatus comprising a rubber thimble in the neck of the bottle provided with an aperture in the end, a gasket within the thimble and a stopper within the gasket. 15

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Witnesses:

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