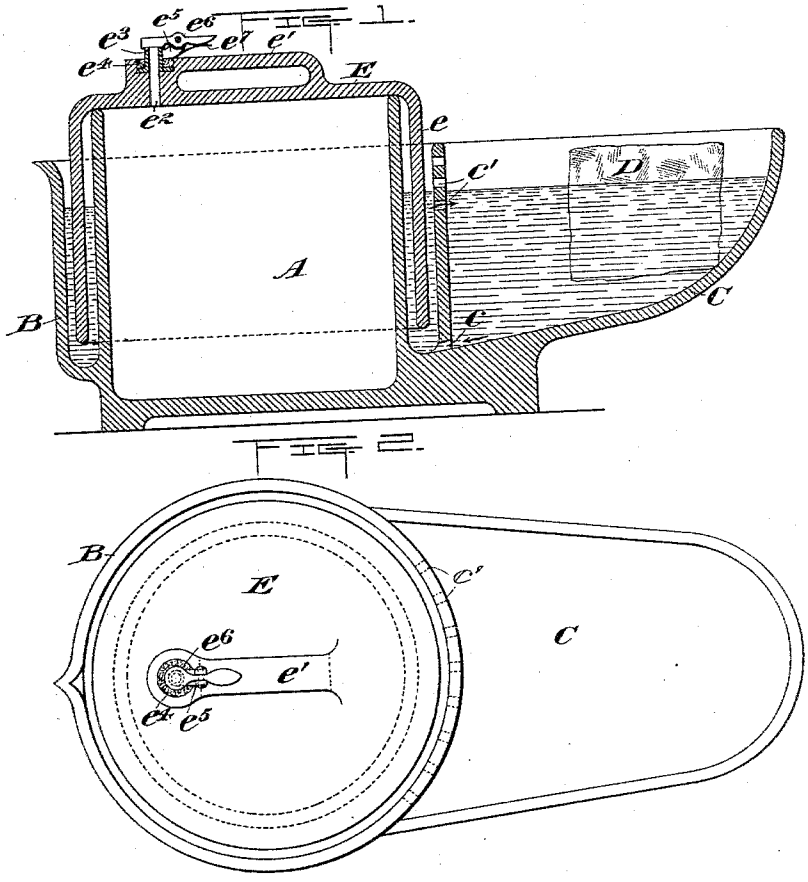
(No Model.)

# A. B. SCHOFIELD.

## STORAGE RECEPTACLE.

No. 571,844. Patented Nov. 24, 1896.

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# UNITED STATES PATENT OFFICE.

ALBERT B. SCHOFIELD, OF BROOKLYN, NEW YORK.

## STORAGE-RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 571,844, dated November 24, 1896.

Application filed March 5, 1895. Serial No. 540,607. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT B. SCHOFIELD, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Storage-Receptacles, of which the following is a specification.

My invention relates to an improvement in storage-receptacles in which provision is made for conveniently opening and closing the receptacle as occasion may require and at the same time sealing it air-tight whenever the cover is in position on it.

A further object in connection with this invention is to provide a cooling medium in connection with the sealing of the cover and its ready removal.

In the accompanying drawings, Figure 1 represents a vertical section of a receptacle embodying the feature of the cooling medium, and Fig. 2 is a top plan view of the same.

The particular form which the receptacle is to assume is a matter of choice and it may be made in any desirable size from a small dish, which will hold a pint or less, up to a reservoir, which will hold a barrel or more. In the form which I prefer the body of the receptacle (denoted by A) is circular in horizontal section. It is provided with a surrounding lip B, connected with the body portion A at the bottom and extending upwardly around the exterior wall of the body A and spaced therefrom a sufficient distance to permit the rim of the cover to be inserted between it and the body. The upper edge of the surrounding lip B is lower than the top of the body A, so that, if from any cause the liquid seal which is to be placed within the space between the said lip B and the body shall be abnormally raised, it will flow over the edge of the lip before it reaches a height sufficient to permit it to flow into the receptacle.

At one side there is formed a trough C, which communicates with the space between the rim B and the wall of the body A through openings in the lip B, said openings being preferably located at the bottom of the lip B and also at different heights at a short distance below the surface of the cooling medium in the trough and annular space around the body in order to establish a circulation from the trough into the surrounding space between the lip B and the body and then back again into the trough. The openings at the bottom of the lip B are denoted by $c$ and those at the top by $c'$, and the circulation of the water or other cooling liquid is indicated by arrows. A piece of ice (represented by D) may be placed in the trough C to lower the temperature of the cooling medium.

The cover consists of a top or crown E and an annular depending rim $e$. The rim $e$ is so constructed as to fit loosely within the space formed around the body A between the lip B and the wall of the body, and it is intended that the lower edge of the rim $e$ shall extend down to a greater or lesser extent into the liquid within the surrounding space around the body and form an air-tight seal.

The crown or cover is provided with a handle $e'$ for conveniently removing the cover, and there is also provided a valve-openi g $e^2$ through the cover for the purpose of permitting the escape of air when the cover is adjusted and the inflow of air when the cover is removed. I find it convenient to locate the valve which controls the opening $e^2$ in such position that it may be operated by the thumb or finger at the same time that the handle $e'$ of the cover is grasped by the hand. To this end, where the cover is formed of molded or cast material, such, for example, as porcelain or glass, I form the opening $e^2$ with an enlarged upper end and seat therein a flanged tube $e^3$ and secure the same in its position by some suitable cement $e^4$. The top $e^3$ may conveniently have fixed thereto or formed integral therewith a lug $e^5$, to which the rocking valve $e^6$ is pivoted. The valve may be held closed by an actuating-spring $e^7$.

In operation, when the food or substance to be stored or preserved has been placed within the body A of the receptacle, the cover may be adjusted by opening the valve $e^6$ and permitting the air beneath it to escape as its rim is being forced down into the liquid within the surrounding space. When the cover has been depressed to its normal position, the valve is permitted to close, and such movement of the valve will lock the cover in its adjusted position to such an extent that the receptacle may be lifted bodily by the handle of the cover and carried around from place to place. When it is desired to remove the cover, the

valve $e^6$ is opened and the air allowed to enter beneath the cover as the cover is raised.

In order to assist the circulation, I form the bottom of the trough C downwardly inclined toward the bottom of the surrounding space, so as to induce the flow of the cooled liquid within the trough toward and into the said surrounding space.

The material of which the receptacle is made is a matter of choice and may be either porcelain, glass, metal, or any other suitable material, and, if so desired, the body may be made of porcelain or glass and the cover of metal, either plain or enameled. The valve and the opening which it opens and closes may also be located in any desired position, and the valve itself may be of any well-known or approved form.

What I claim is—

1. A storage-receptacle comprising a body portion provided with a surrounding space for receiving a liquid seal, a trough extending from one side of said surrounding space and in communication with said surrounding space through the outer wall of said space and a cover provided with a rim adapted to enter the liquid within said surrounding space, substantially as set forth.

2. A storage-receptacle comprising a body portion provided with a surrounding space for the reception of a liquid seal, a trough at one side of said surrounding space and in communication with said surrounding space, the bottom of said trough being downwardly inclined toward said surrounding space and a cover provided with a rim adapted to enter the liquid within said surrounding space, substantially as set forth.

ALBERT B. SCHOFIELD.

Witnesses:

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