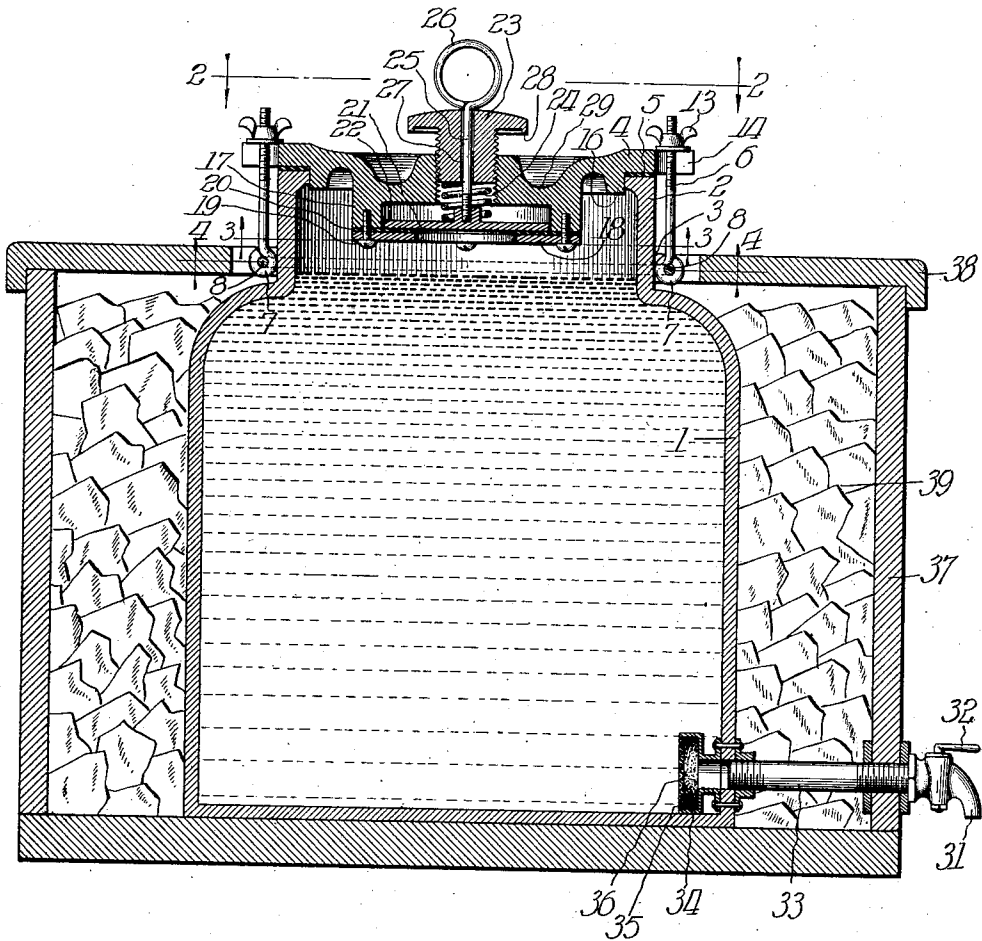


H. WENNERSTEN.  
 RECEPTACLE FOR FERMENTING LIQUIDS.  
 APPLICATION FILED NOV. 5, 1910.

1,033,136.

Patented July 23, 1912.



Witnesses:  
 Robert A. Weir  
 Charles J. Cobb

Inventor:  
 Hanning Wennersten.  
 By Still & Still  
 Attys.

# UNITED STATES PATENT OFFICE.

HENNING WENNERSTEN, OF CHICAGO, ILLINOIS.

## RECEPTACLE FOR FERMENTING LIQUIDS.

1,033,136.

Specification of Letters Patent.

Patented July 23, 1912.

Application filed November 5, 1910. Serial No. 590,874.

*To all whom it may concern:*

Be it known that I, HENNING WENNERSTEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Receptacles for Fermenting Liquids, of which the following is a description.

My invention belongs to that general class of devices known as receptacles, or containers, and relates particularly to a receptacle for containing fermenting liquids, as for example, for containing wort during the fermentation caused by the addition of yeast, and has among its objects the production of a simple, convenient, efficient and satisfactory device of the kind described for use wherever found applicable.

The receptacle is particularly convenient for use for home brewing.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claim.

In the drawings, wherein like reference characters indicate like or corresponding parts, the figure is a vertical sectional view of a preferred form of the device.

Referring to the drawings, in which the preferred form of device is shown, 1 represents the receptacle extended as at 2, to form a neck, and provided with a closure or cover 4. The neck 2 is preferably flanged on the exterior as at 3, to provide a part of means for securing the closure in position, as hereafter described. Suitable packing material 5 is preferably placed between the closure 4 and the neck 2, so that when the closure is secured or locked in place, there will be no escape of gas or liquid between the closure and the receptacle neck. The closure may be secured in position in any suitable manner, preferably by a plurality of eye-bolts 6, each formed with an eye or head 7, and arranged on a ring 8, which encircles the neck and is prevented from rising thereon by the flange 3. The upper ends of the eye-bolts 6 are provided with thumb or wing nuts 13, which engage with the cooperating extensions 14 on the closure, there being a space 15 on each extension through which the eye-bolt passes.

The closure is preferably prevented from transverse displacement by means of the flange 16 formed thereon adapted to engage

the interior of the neck of the receptacle. Extending into the receptacle from the closure 4 is an extended ring or part 17, which carries what may be termed a valve seat member 18, secured thereto by screws 19, or their equivalents. Packing material 20 is preferably arranged as shown to form a packing between the seat 18 and the valve member 22, the valve seat 18 and the packing 20 being preferably formed with an opening 21 therethrough. Any equivalent form of valve and valve seat may be employed.

Adjustably secured in the top of closure 4, is an adjustable member 23, which cooperates with the spring 28 and normally maintains the valve member 22 upon its seat. As is obvious, turning the member 23 affords adjustment and regulates the pressure of the spring upon the valve. I also preferably provide what may be termed a tester rod 25, which loosely extends through the vent or duct 27 in the adjustable member 23, the rod being secured to the valve member. If desired, the opposite end may be formed with a ring, or otherwise arranged, so that it may be conveniently grasped to test the pressure on the valve, or to unseat the same at will. As is shown in the drawing, I preferably provide the adjustable member 23 with an extended top having a downwardly extending or flanged edge 28, the closure being provided with a groove or trough 29 thereunder.

As shown in the drawing, the receptacle may be provided with a tap or faucet 31, controlled by the usual form of valve, the handle 32 thereof being shown, the faucet being connected by a pipe 33, if not directly to the receptacle 1. If desired, a filtering cup 34, containing a filtering medium 35 and strainer 36, may be employed. The receptacle is shown positioned in an auxiliary casing or receptacle 37, having a top 38, which may contain means for cooling the contents of the receptacle 1 in warm weather, or means for preventing the chilling or freezing of the contents of 1 in cold weather.

The receptacle in use, assuming that it is to be used for example for the making of beer from a suitable extract and yeast, or their equivalents, is opened by removing the closure 4. This is done by unscrewing the thumb nuts 13 a sufficient distance, and then turning the bolts 6 down, thereby releasing the closure. It will be noted that the rod

or ring 8 and the bent ends 7 of the bolt, substantially form hinges. The cover having been removed, the material is put into the receptacle in the desired condition, after which the closure may be positioned and locked by means of the eye-bolts 6 and thumb nuts 13. The pressure of the valve 22 on its seat may be regulated by turning the member 23 as desired, so that when the pressure of the contents or gases within rise above a predetermined pressure, depending upon the position of the adjustable member 23, gas will flow through the opening 21 and by the valve member 22 up through the vent 27, passing by the rod 25 out to the exterior, or atmosphere. If any liquid is carried along it will be discharged on the top of the member 23, and running over, drop off the lip, or turned-down part 28, into the trough 29 on the closure, from which it may be removed. This construction of the member 23 prevents the liquid from gathering around the outside of the member 23 at the top of the closure, and thereby rusting or tending to make it difficult to adjust the member. If at any time it is desired to test the pressure, to determine the condition of the contents of the receptacle, or unseat the valve, the rod 25 may be raised by means of the ring 26, and the escape of gas and liquid noted. In this way the condition of the contents of the receptacle may be fairly accurately estimated at any desired time.

By the use of the receptacle or outer container 37, ice may be maintained around the receptacle 1 after the beer has been made, maintaining the same cool in summer. In other cases, where the device is to be put to other uses, suitable insulating material may be contained in the outer container 37 to protect the interior from heat or cold, as the case may be. The arrangement of the faucet 31 extending without the receptacle and outer casing or container 37, affords convenient means for drawing off the contents of the receptacle 1, all sediment being pre-

vented from passing out by means of the screen and filtering material on the interior of the receptacle. When the contents have been drained off the receptacle and parts may be cleaned and new filtering material 35 be positioned in the filtering cup 34 if desired. It is of course understood that any suitable means (not shown) may be employed for maintaining the pressure within the receptacle after a portion of the contents have been drawn off, so that the contents will foam and not taste flat. For illustration, an air pump suitably connected with the receptacle may be used for the purpose.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention, hence I do not wish to be understood as limiting myself to the exact form, arrangement, construction or combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:—

In a device of the character described, a receptacle, a removable closure for said receptacle, said closure being provided with an annular channel in the outer surface thereof and with a projection extending upwardly therefrom and positioned centrally of said annular channel, said projection being provided with a vent opening extending centrally therethrough and with an overhanging top, the edge of which is positioned directly over the annular channel in the top of the closure, and a pressure actuated valve for the vent opening in said projection.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

HENNING WENNERSTEN.

Witnesses:

ROY W. HILL,  
CHARLES I. COBB.