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1,530,657

H. EUMMELEN

FOUNTAIN

Filed June 6, 1922.

Fig. 1.

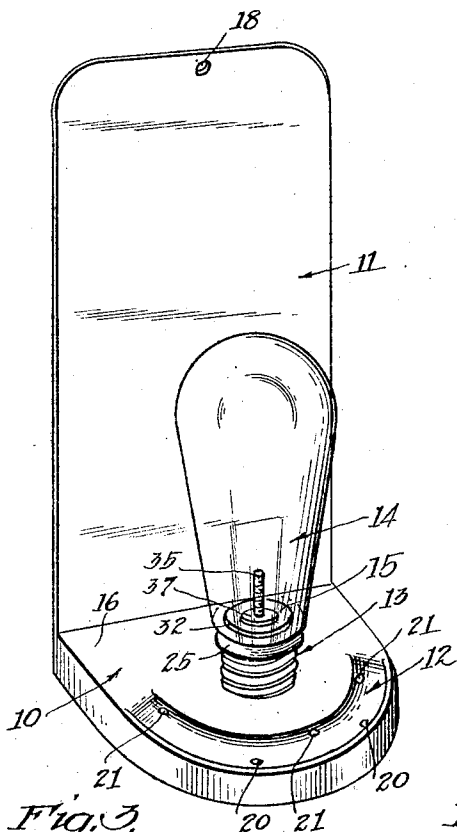


Fig. 2.

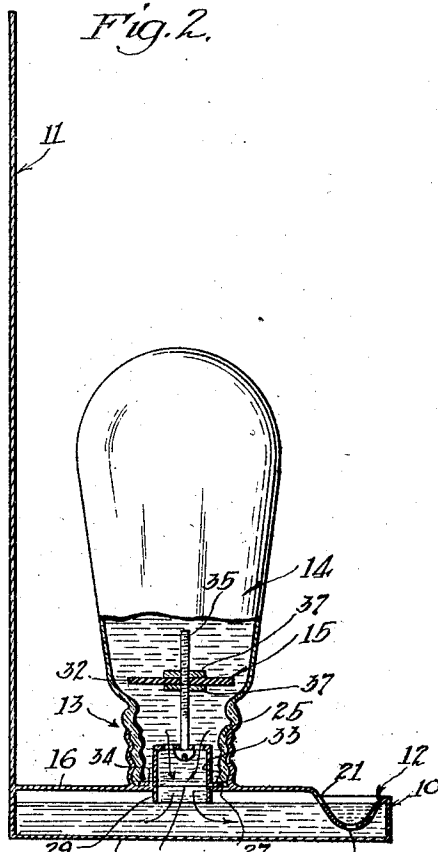


Fig. 3.

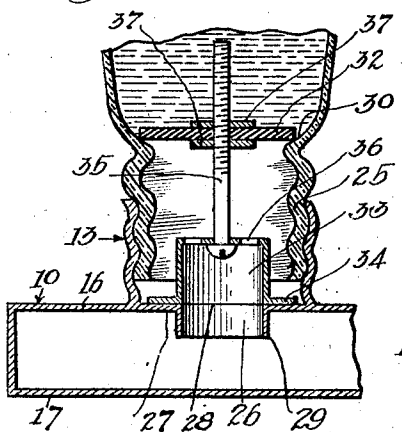


Fig. 4.

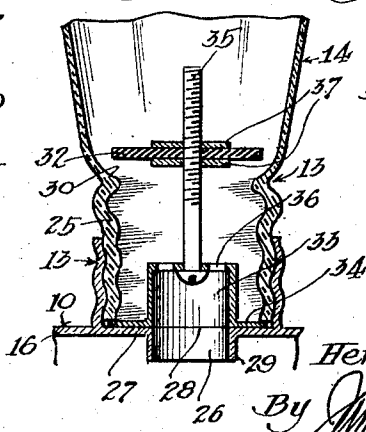
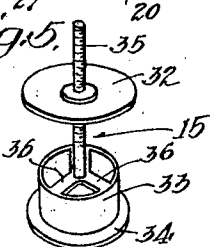


Fig. 5.



Inventor:
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UNITED STATES PATENT OFFICE.

HENRY EUMMELEN, OF SANTA ANA, CALIFORNIA.

FOUNTAIN.

Application filed June 6, 1922. Serial No. 566,322.

To all whom it may concern:

Be it known that I, HENRY EUMMELEN, a citizen of the United States, residing at Santa Ana, in the county of Orange, State of California, have invented new and useful Improvements in Fountains, of which the following is a specification.

This invention has to do with a fountain device of the class in which the reservoir is detachable from the other parts.

An object of this invention is to provide means for preventing loss and spilling of water from a device of the character described during the placement and removal of the reservoir.

Another object of the present invention is to provide a simple, effective and slightly fountain for holy water. The structure provided by the invention is adapted to be placed on a support, such as a shelf or a table, to be hung, as on a wall, and is compact, convenient and particularly effective.

The various objects and features of the invention will be best and more fully understood from the following detailed description of a typical preferred embodiment of the invention, throughout which reference is had to the accompanying drawings, in which:

Fig. 1 is a perspective view of the device provided by the present invention; Fig. 2 is a vertical sectional view of the device; Fig. 3 is an enlarged detail sectional view of the device at the socket portion thereof, showing the reservoir partially removed and the valve closed; Fig. 4 is a view similar to Fig. 3, showing the reservoir in place and the valve open; and Fig. 5 is a perspective view of the valve device alone.

The device embodying the present invention comprises, generally, a body 10, a back 11 which extends upwardly from the rear of the body 10, a trough 12, a socket 13, a reservoir 14, and a valve device 15. The trough 12 is adapted, primarily, to carry fluid openly so that it may be used; the reservoir 14 serves to carry a supply of fluid; the socket 13 serves to releasably hold the reservoir in connection with the body; and the body 10 serves as a base for the device and to conduct fluid from the socket to the trough.

In accordance with the preferred form of the present invention the body 10 is a comparatively flat hollow structure having

spaced top and bottom walls 16 and 17, respectively. The body 10 is comparatively large so that it may be used as a supporting base for the device. The socket 13 is located at about the center of the top wall 16 of the body 10 and the front edge of the body is curved concentrically with the socket. The rear edge of the body is straight and the back 11 extends upwardly from it. The back 11 serves as means by which the device may be hung on a wall, or the like. An opening 18 is provided in the upper part of the back 11 to receive a hook, or other like device, such as may be used to hang the device. It will be obvious, of course, that the back 11 may be designed and proportioned so that it adds to the sightliness of the device and how it may be used to carry ornamentation if desired.

The trough 12 is, in accordance with the preferred form of the present invention, formed in the front edge portion of the top of the body 10. I have found that the trough can be conveniently formed by indenting the forward edge portion of the top as shown in the drawings. It is desirable to make the trough 12 comparatively long and to curve it concentrically with the front edge of the body and socket. I provide liquid feed openings 20 in the bottom of the trough 12 in order that liquid may feed from the body 10 into the trough 12 and I provide air inlet openings 21 in the upper edge portion of the wall of the trough to allow air to enter the body 10 above the liquid standing therein.

The socket 13 extends upwardly from the top 16 of the body 10 and is internally screw threaded to receive the screw threaded base portion 25 of the reservoir 14. There is an opening 26 in the top 16 within the socket 13. This opening is somewhat smaller than the socket so that there is a part 27 of the top extending inwardly at the inner end of the socket forming a shoulder 28. An annular flange 29 extends downwardly from the edge of the opening 26 a short distance into the body 10 and forms practically a continuation of the socket.

The reservoir 14, which is preferably in the form of a globe and is preferably formed of glass, or the like, is provided with a screw threaded base portion 25 adapted to screw thread into the socket 13. There is an opening extending completely through the base

portion 25. Within the reservoir and at the upper end of the base portion 25 there is an upwardly facing shoulder 30.

The valve device 15 comprises a valve part 5 32, of rubber, or the like, adapted to seat on the shoulder 30 in the reservoir 14, and a frame which carries the valve part 32. The frame comprises a body part 33 and a stem 35. The body part 33 has an outwardly ex- 10 tending annular flange 34, adapted to be located between the outer end of the base 25 and the shoulder 26 when the reservoir is in position in connection with the socket, and a plurality of arms 36 which extend in- 15 wardly to carry the stem 35. The stem 35 is screw threaded and the valve part 32 is mounted on it between two nut members 37. By adjusting the nuts 37 on the stem the position of the valve part 32 can be adjusted. 20 The valve device is arranged in connection with the base portion of the reservoir so that the valve part 32 is within the reservoir while the flange 34 is at the outer end of the base portion.

25 In operation, to fill the device the reservoir is removed by unscrewing the base portion thereof from the socket 13, and is inverted to be filled with liquid, say, for instance holy water, through the opening in the base 30 portion. The valve device 15 is adjusted so that when the reservoir is inverted the flange 34 rests on the outer end of the base portion while the valve part 32 is in the reservoir but removed or unseated from the 35 shoulder 30. When the reservoir is filled with the desired amount of liquid, it is quickly returned to its upright position so that the liquid in it carries the valve part 32 into engagement with the shoulder 30 40 and holds it there so that the opening through the base portion is closed. It will be obvious how the pressure of the liquid in the reservoir holds the valve part 32 in seated engagement with the shoulder 30 so 45 that the liquid can not escape from the reservoir. When the valve part 32 is seated on the shoulder 30 the flange 34 is spaced somewhat from the outer end of the base portion 25. Upon screwing the base por- 50 tion 25 into the socket the flange 34 engages the shoulder 28 before the base portion is completely in the socket causing the valve part 32 to be lifted free of the shoulder 30 by the time the base portion is completely 55 in the socket. Upon the valve part 32 being lifted from the shoulder 30 liquid from the reservoir flows through the base portion 25 of the reservoir, through the opening 26 in the top 16, fills into the body 10, and 60 fills into the trough 12 through the openings 20. Liquid will continue to flow from the reservoir into the body 10 and trough 12 until the level of liquid in the body 10 reaches the lower edge of the flange 29 and 65 thus operates to cut off the passage of air

from the body into the reservoir. When liquid is used from the trough 12 so that the level of liquid in the body 10 is lowered, air enters the openings 21, passes over the liquid in the body 10, and passes upwardly 70 through the opening 26 in the top 16 and into the reservoir, allowing more liquid to flow out of the reservoir into the body. The device in this way operates automatically so that the trough 12 remains full of liquid at 75 all times while there is a supply of liquid in the reservoir. If, at any time, it is desired to remove the reservoir while there is still some liquid in it it is merely necessary to unscrew the base portion 25 from the 80 socket, so that the end of the base portion moves away from the flange 34, allowing the valve parts 32 to again seat on the shoulder 30. The seating of the valve part on the shoulder 30 prevents the flow of 85 liquid from the reservoir and therefore allows the reservoir to be removed without loss of liquid. In practice the parts are designed and proportioned so that the valve part 32 seats on the shoulder 30 and is re- 90 moved from the shoulder 30 in the manner hereinabove described only when the base portion 25 has a substantial amount in the socket 13.

From the foregoing description it will be 95 obvious that the valve device which I have herein set forth is subject to considerable variation from the construction herein shown, and that it may be applied to foun- 100 tain devices, and the like, of various kinds, for instance, the valve device herein set forth might be advantageously employed in water troughs of the general character set forth in my copending applications entitled 105 "Trough for use in connection with a cage, or the like," filed August 22, 1921, Serial No. 494,164, and my copending application entitled "Watering trough," filed February 26, 1921, Serial No. 448,163. Further, from 110 the foregoing description it will be obvious that the present invention provides a fountain construction for holy water which is particularly neat and slightly, which is simple and effective, and which is convenient 115 and desirable for use.

Having described only a preferred form of my invention I do not wish to limit myself to the particular details hereinabove set forth but wish to reserve to myself 120 any changes or variations that may appear to those skilled in the art or fall within the scope of the following claims.

Having described a preferred form of my invention, I claim:

1. A device of the character described in- 125 cluding a hollow body having an opening in its top, an upwardly opening trough below the top of the body and having a liquid supply opening in its bottom connecting it with the interior of the body, a closed 130

reservoir connected with the body to discharge liquid downwardly through the opening in the top, and a fluid conducting part extending downwardly into the body from the opening in the top of the body, there being an opening into the body at a point above the level of the lower end of said part.

2. In combination a reservoir having a base portion with a discharge opening through it, a socket adapted to releasably hold the base portion, a shoulder at the socket, and a valve device including a valve part adapted to close the opening through the base when the reservoir is detached from the socket and a part connected with the valve part and adapted to cooperate with the shoulder to actuate the valve part so that the opening is open when the reservoir is in place in the socket.

3. In combination a reservoir having a base portion with a discharge opening through it, a socket adapted to releasably hold the base portion, a shoulder at the socket, and a valve device including a valve part adapted to close the opening through the base when the reservoir is detached from the socket and a carrier for the valve part adapted to cooperate with the shoulder to automatically actuate the valve part to open the opening upon the base being arranged in connection with the socket and to automatically allow the valve part to close the opening upon the base being released from the socket.

4. In combination a reservoir having a base portion with a discharge opening through it, a socket adapted to releasably hold the base portion, a shoulder at the socket, and a valve device including a valve part adapted to close the opening through the base when the reservoir is detached from the socket and a carrier for the valve part adapted to cooperate with the shoulder to automatically actuate the valve part to open the opening upon the base being arranged in connection with the socket and to automatically allow the valve part to close the opening upon the base being released from the socket, said carrier including a flange part adapted to engage the shoulder and a stem connected with the flange part and carrying the valve part.

5. A holy water fountain comprising a completely enclosed body, and a fluid reservoir connected with the interior of the body to supply fluid thereto, the top of the body having an indentation forming a trough, the trough having communication with the interior of the body so that it is supplied with fluid therefrom.

6. In combination a reservoir having a

base portion with a discharge opening through it, a socket adapted to releasably hold the base portion, a shoulder at the socket, and a valve device including a valve part adapted to close the opening through the base when the reservoir is detached from the socket and a carrier for the valve part adapted to cooperate with the shoulder to automatically actuate the valve part to open the opening upon the base being arranged in connection with the socket and to automatically allow the valve part to close the opening upon the base being released, the carrier including a flange adapted to engage the shoulder, a stem connected with the flange, and means adjustably mounting the valve part on the stem.

7. In combination a reservoir having a base portion with a discharge opening through it, and a seat at its inner end, a socket adapted to releasably hold the base portion, a shoulder at the socket, and a valve device including a valve part adapted to engage the seat to close the opening through the base when the reservoir is detached from the socket and a carrier for the valve part adapted to cooperate with the shoulder to automatically actuate the valve part to open the opening upon the base being arranged in connection with the socket and to automatically allow the valve part to close the opening upon the base being released from the socket, the carrier including a flange at the outer end of the base portion adapted to engage the shoulder, and a stem connecting the flange and the valve part.

8. A fountain device including a hollow body, a trough formed in the top of the body, a socket on the top of the body, a fluid inlet at the socket discharging at a point below the top of the body, a fluid connection between the trough and the interior of the body at the level of the discharge of said fluid inlet, a shoulder at the socket, an enclosed reservoir having a base portion with an outlet opening through it and adapted to be releasably held by said socket, and a valve device including a valve part adapted to close the opening through said base portion when the reservoir is detached from the socket, and a part connected with the valve part and adapted to cooperate with the shoulder to actuate the valve so that the opening through said base portion is open when the base portion is in place in the socket.

In witness that I claim the foregoing I have hereunto subscribed my name this 22nd day of May, 1922.

HENRY EUMMELEN,