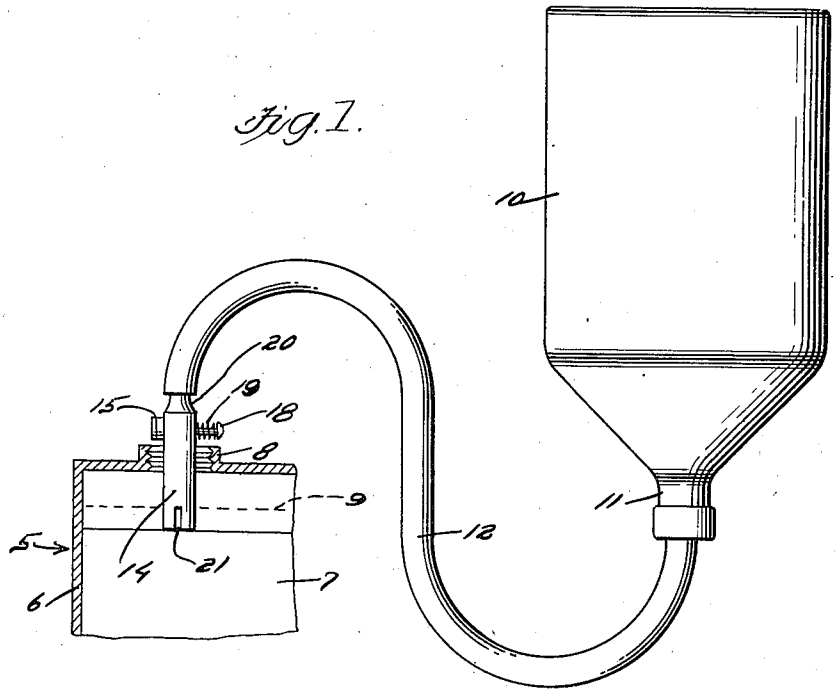
March 10, 1942. D. B. McDONALD 2,275,915

DISPENSING APPARATUS

Filed Dec. 19, 1940

Fig. 1.



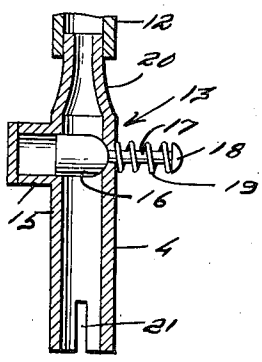


Fig. 2.

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Patented Mar. 10, 1942

2,275,915

UNITED STATES PATENT OFFICE

2,275,915

DISPENSING APPARATUS

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Application December 19, 1940, Serial No. 370,875

1 Claim. (Cl. 226—19)

This invention relates to new and useful improvements in liquid dispensers and more particularly to an apparatus for filling batteries.

The principal object of the present invention is to provide a filler for replenishing batteries with water and automatically cutting off the supply of water at the proper level.

Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawing—

Figure 1 represents a side elevational view of the dispenser shown in filling relation with a battery, the latter being shown in fragmentary vertical section.

Figure 2 is a fragmentary vertical sectional view through the discharge end portion of the dispenser.

Referring to the drawing wherein like numerals designate like parts, it can be seen that numeral 5 generally refers to a conventional battery consisting of a case 6, plate 7 therein and a filler neck 8. In Figure 1 it can be observed that numeral 9 denotes the desired level of water over the plate 7.

In carrying out the present invention, a reservoir 10 is employed and has a neck 11 from which extends a rubber hose 12. At the discharge end of this hose is a control head generally referred to by numeral 13.

The control head 13 consists of an elongated tubular nozzle 14 having a laterally disposed chamber 15 into which a piston valve 16 is movable. This piston valve 16 has a stem 17 extending therefrom and through an opening in the nozzle 14 and on this stem and between the head 18 and the nozzle 14 is a compression spring 19 for normally maintaining the stem 17 urged outwardly and the piston valve 16 closing or traversing the passageway through the nozzle 14. Obviously, when the stem 17 is pushed inwardly, the piston valve 16 is moved into the chamber 15 to free the passageway through the nozzle.

The nozzle 14 at one end is provided with a reduced neck or nipple 20 for insertion into the corresponding end of the hose 12.

The remaining end of the nozzle 14 is bifurcated. In other words, this end last spoken of is formed with one or more slots 21 of a predetermined length and equivalent to the depths of water desired in the battery case 6, over the plate 7.

It can now be seen, that when the reservoir 10 is inverted as shown in Figure 1 and the nozzle 14 disposed into the battery case 6 with the slotted end resting on the plate 7, opening of the passageway through the nozzle by disposing the piston valve 16 into the chamber 15 will permit water to enter the case 6. Water will continue as long as the valve 16 is in open position and until the level 9 reaches the upper ends of the slots 21, whereupon air to the hose 12 will be cut off and no further amount of water will discharge from the nozzle. The attendant may then release the stem 17 and remove the nozzle from the battery. The water in the battery is now at the very proper level.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

In a battery filling device, a nozzle having a flat outer end for resting upon the upper edge of a battery plate, the nozzle being of elongated form to extend above the top of the battery when the nozzle is placed through the filling hole of the battery with the outer end of the nozzle resting on said plate, said end of the nozzle having an elongated longitudinally extending slot therein which passes through the outer end, said slot determining the height, along the nozzle, to which the liquid may be admitted into the battery, a laterally extending tubular boss on the upper part of the nozzle and located above the filling opening of the battery when the nozzle is resting on the battery plate, a valve member passing across the nozzle for closing the same and said valve member fitting in the boss when moved to open position, a shank on the valve member passing through a hole in the nozzle and having a head on its outer end and a spring encircling the shank and having one end bearing against the head and the other end against a part of the nozzle for holding the valve in closed position.

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