L. G. HURD.

POULTRY DRINKING FOUNTAIN.

APPLICATION FILED AUG. 31, 1915.

1,180,649.

Patented Apr. 25, 1916.

Fig. 1.

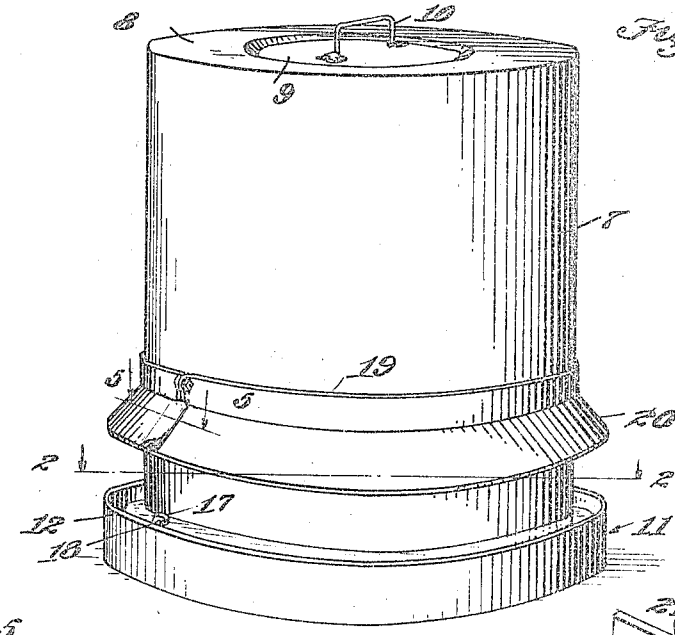


Fig. 6.

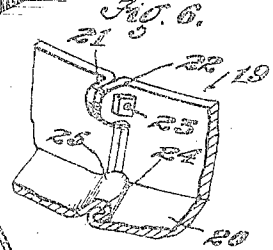


Fig. 5.



Fig. 2.

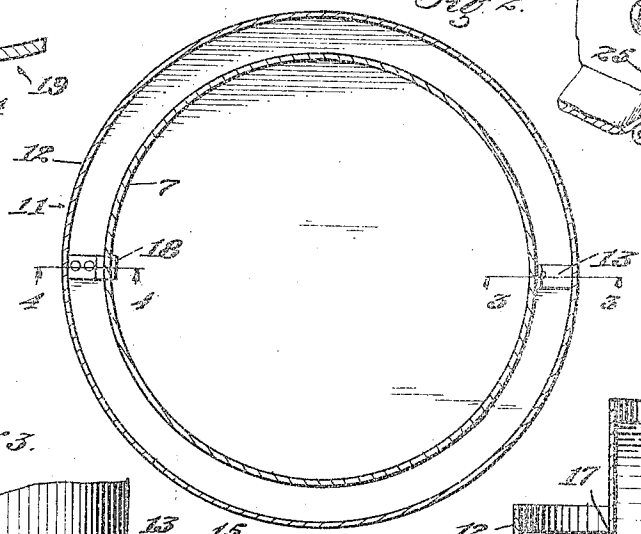


Fig. 4.

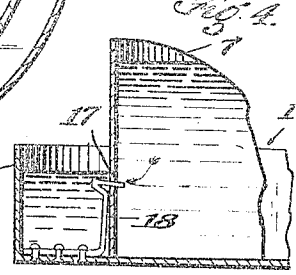
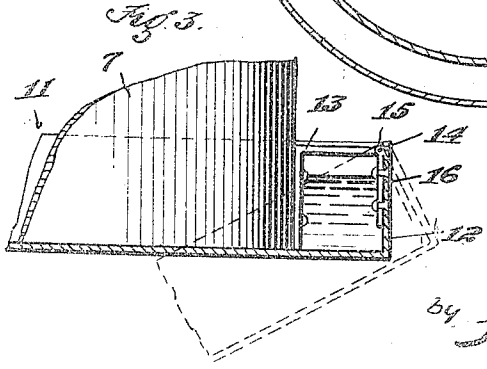


Fig. 3.



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POULTRY DRINKING-FOUNTAIN.

1,180,649. Specification of Letters Patent. Patented Apr. 25, 1916.

Application filed August 31, 1915. Serial No. 48,197.

To all whom it may concern:

Be it known that I, LEIGH G. HURD, a citizen of the United States, residing at Gardena, in the county of Los Angeles and State of California, have invented new and useful Improvements in Poultry Drinking-Fountains, of which the following is a specification.

This invention relates to a poultry drinking-fountain.

It is the object of this invention to provide a drinking-fountain of the vacuum and trap type in which a volume of liquid is fed from a container into a trough and maintained at a fixed level in the trough, and to so construct the container and the trough that the latter will serve as a hinged closure for the open end of the container.

Another object is to provide means for hinging the closure trough to the container with means for latching it in its closed position to prevent displacement thereof on inversion of the container.

A further object is to provide adjustable means on the container serving as a guard to prevent chicks from getting into the trough and which may be disposed in various positions in relation to the trough according to the size of the chicks to be served by the fountain, and which also operates to prevent droppings from falling into and contaminating the water in the trough.

The invention primarily resides in a container having one end closed and the other open, fitted with a closure on its open end having a marginal flange adapted to extend exteriorly of the wall of the container in spaced relation thereto, which closure is adapted on inversion of the container to form a seat for the latter and provide a drinking trough throughout the circumference of the container; an adjustable guard or hood being mounted on the container to extend over the trough.

The invention is illustrated in the accompanying drawings in which:

Figure 1 is a view of the drinking fountain in perspective. Fig. 2 is a view in horizontal section and plan on the line 2—2 of Fig. 1. Fig. 3 is a detail section in elevation on the line 3—3 of Fig. 2, illustrating the hinged connection between the closure and the container. Fig. 4 is a detail section and elevation on the line 4—4 of Fig. 2 showing the latch for connecting the closure to the container and illustrating the manner in which the liquid is fed from the container. Fig. 5 is a detail section on the line 5—5 of Fig. 1. Fig. 6 is a detail in perspective illustrating the clamp connection of the adjustable shield.

More specifically, 7 indicates the walls of the container which are here shown as cylindrical in form and as closed at one end by a bottom plate 8. The plate 8 is preferably formed with a depression 9 and has a pivoted handhold 10 affixed thereto by which the container may be carried when in an inverted position; the handhold folding in the depression when the container is positioned with its closed end down and resting on a surface, as in filling the container at its open end.

The open end of the container 7 is adapted to be closed by means of a cover-plate 11 here shown as circular and of a diameter greater than that of the container 7. Formed on the marginal edge of the plate 11 is an annular flange 12, which is adapted to extend parallel with the wall of the container 7 in spaced relation thereto when the cover-plate is in its closed position, as shown in Figs. 1 and 2, to form a continuous trough intermediate the walls of the container 7 and the flange 12.

Mounted on the outer face of the container 7 is a bracket 13 which extends to a point adjacent the inner face of the flange 12 and is hingedly connected to the latter adjacent its edge by means of a pivot pin 14 which engages a loop 15 formed on a plate 16 carried by the flange 12, as particularly shown in Fig. 3. The pivotal connection between the bracket 13 and the flange 12 is such that the cover-plate 11 will extend across the open end of the container in close contact with the edge of the container 7 when in its closed position with the flange 12 spaced from the outer surface of the container.

Formed in the wall of the container diametrically opposite the pivotal mounting of the plate 11 is an orifice 17 which is spaced a distance from the marginal edge of the container less than the depth of the flange 12. This orifice serves as an egress opening through which the contents of the container are discharged when the latter is disposed in its inverted position, as shown in Fig. 1.

Mounted on the cover-plate 11 is a spring latch 18 which when the cover-plate is in its closed position is adapted to extend into the

orifice 17 in engagement with the wall thereof so as to retain the cover-plate 11 in its closed position and also hold it in concentric relation to the container.

Encircling the container is a divided band 19 having a divergent flange 20 formed on one edge thereof, which flange is adapted to extend over the trough formed by the flange 12 and to provide a hood or shield. The ends of the band 19 are out-turned to form lugs 21 and 22, which are connected together by a bolt 23; the bolt serving as a means to clamp the band 19 in any desired position on the container and provide an adjustment by which the hood 20 may be disposed in any desired spaced relation to the trough. As a means for holding the terminals of the band 19 against separation, on removing the bolt from the band, a curved flange 24 is formed on one end of the band beneath the lug 22 which is adapted to be engaged by a hooked flange 25 formed on the other end of the band 19 beneath the lug 21; the flanges 24 and 25 being interlocked as particularly shown in Figs. 5 and 6.

In the operation of the invention, the container is positioned with its open end uppermost, and the cover-plate 11 is swung on the pivot pin 14 after releasing the catch 18, whereupon the container may be filled with water through its open end. On the container being filled, the cover-plate is restored to its closing and latched position and the container is inverted. A portion of the water will be discharged through the orifice 17 into the trough, and, in lowering in the container, will form a partial vacuum which operates to restrict its flow through the orifice so that when the water in the trough reaches a depth sufficient to cover the orifice 17, further discharge of the water from the container is inhibited. As the level of the water in the trough is lowered, a sufficient quantity is automatically delivered from the container to maintain the proper level, as is common in fountains of this character.

When it is desired to move the container, it may be lifted by the handhold 10 without separating the container from the cover-plate 11, which is securely held in place by the pivot pin 15 and the latch 18. The downward pressure of the water in the container opposes depression of the walls of the container adjacent the latch when the container is in its inverted operative position, so as to prevent easy disengagement of the latch. The side walls of the orifice 17 cooperate with the latch 18 to retain the cover in centered relation to the container and thereby prevents sidewise movement of the container and cover in relation to each other, tending to twist the hinge connection or buckling of the flange adjacent the hinge when handling the container while in its inverted position. To adjust the hood or shield 20, the bolt 23 is loosened to permit the band 19 being shifted to any desired position on the container in relation to the trough; the bolt being tightened to clamp the band against movement.

I claim:

1. A poultry drinking-fountain comprising a container having a closed end and an open end and formed with an orifice in its wall adjacent its open end, a cover-plate for closing the open end of the container, a hinge connecting the cover-plate to the container on the side thereof diametrically opposite the orifice, and means on the cover-plate engageable with the edge of the orifice for holding the cover-plate against movement on its hinge.

2. A poultry drinking fountain, comprising a container having a closed end and an open end, and formed with an orifice in its wall adjacent its open end, a cover plate for closing the open end of the container, a hinge connecting the cover plate to the container, and a spring latch on the cover plate engageable with the edge of the orifice for holding the cover plate against movement on its hinge.

In testimony whereof I have signed my name to this specification.

LEIGH G. HURD