Jan. 31, 1950 L. S. WINEY 2,496,030

DRINKING FOUNT

Filed Feb. 18, 1946

FIG 1

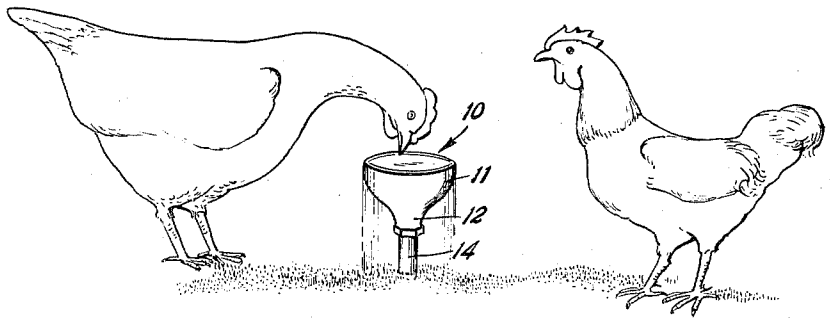


FIG 3

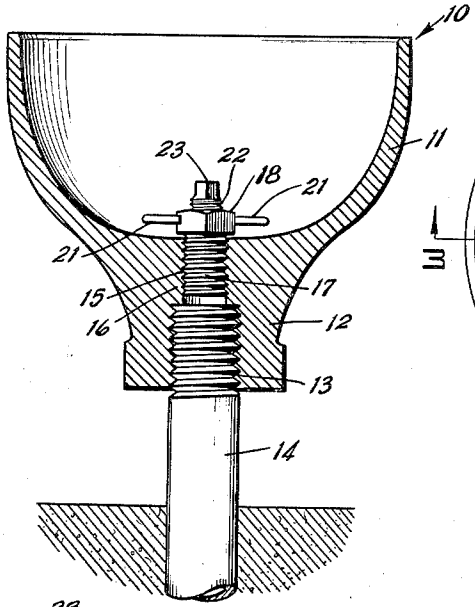
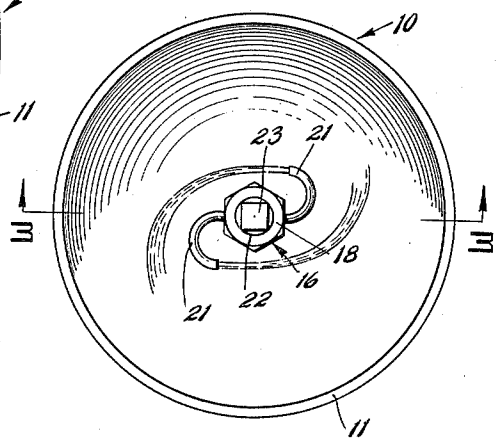


FIG 2



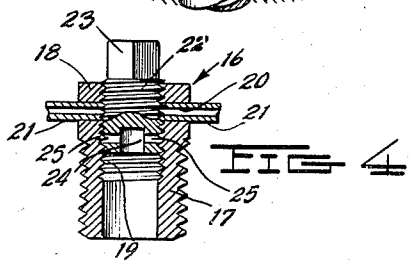


FIG 4

Inventor

Lloyd S. Winey

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Patented Jan. 31, 1950 2,496,030

UNITED STATES PATENT OFFICE

2,496,030

DRINKING FOUNT

Lloyd S. Winey, Lancaster, Pa.

Application February 18, 1946, Serial No. 648,467

1 Claim. (Cl. 119—72)

1

This invention relates to a drinking fount and more particularly to a poultry drinking fount.

The primary object of the invention is to supply clean fresh drinking water to poultry and the like.

Another object is to regulate the water supply to produce a flow which while preserving the cleanliness and freshness of the water will not be wasteful and hence will be economical.

The above and other objects may be attained by employing this invention which embodies among its features a bowl having an axial socket adapted to be connected to a source of continuous water supply, a bushing establishing communication between the socket and the interior of the bowl, diametrically opposed water discharge nozzles carried by the bushing and extending into the bowl near the bottom thereof, and a plug fitted in the bushing and carrying means for regulating the supply of water to the nozzle.

Other features include nozzles which are of substantially semi-circular form lying in a plane perpendicular to the longitudinal axis of the bowl and arranged to direct the flow of water issuing therefrom against the bottom and sides of the bowl to produce a swirling motion to the water in the bowl in order to wash out any grit or dirt which may accumulate in the bowl.

In the drawings,

Figure 1 is a perspective view of this invention as it would appear in use,

Figure 2 is a top plan view of the device,

Figure 3 is a transverse sectional view taken substantially along the line 3—3 of Figure 2, and

Figure 4 is a sectional view through the bushing and the flow regulating plug.

Referring to the drawings in detail my invention designated generally 10 comprises a substantially semi-circular bowl 11 formed with an axial depending socket 12 which is internally screw-threaded as at 13 to receive the end of a water supply pipe 14. Extending axially through the bottom of the bowl and communicating with the inner end of the socket 13 is an internally screw-threaded bore 15 for the reception of a nozzle supporting bushing to be more fully hereinafter described.

The bushing above referred to is designated generally as 16 and comprises an externally screw-threaded tubular body 17 having a hex-head 18 and formed adjacent its upper end with internal screw threads 19. Formed at diametrically opposite points in the head 18 are openings 20 which communicate with the threaded bore 19 and receive the supporting ends of spray nozzles

2

21 which as illustrated in Figure 2 are of substantially semi-circular shape so that water issuing from the interior of the bushing will be redirected by the nozzles in a completely reversed direction. The nozzles 21 lie in a plane perpendicular to the longitudinal axis of the bushing and bowl as will be readily understood upon reference to Figure 3, so that water issuing from the nozzles will impinge against the side walls of the bowl close to the bottom thereof and impart a swirling motion to the water in the bowl as suggested in Figure 2.

In order to regulate the flow of water from the interior of the bushing 17 through the nozzles 21 an externally screw-threaded plug 22 is entered into the bushing to engage the threads 19. This plug carries at one end a squared extension 23 which extends upwardly into the bowl as illustrated and formed in the end of the plug opposite that carrying the extension 23 is an axial recess 24 which opens at its lower end into the interior of the bushing 17. Formed near the inner end of the plug 22 and communicating with the recess 24 are diametrically opposed passages 25 which extend to the periphery of the plug so that water entering the recess 24 will be directed radially into the space between the screw threads 19, it being understood that the threads are made purposely with a loose fit so as to permit a restricted flow of water upwardly and through the nozzles 21.

In operation it will be understood that the fountain 10 is attached to the pipe 14 as illustrated with the bushing 16 securely screwed into the threaded bore 15. In this position the nozzles 21 will lie close to the bottom of the bowl 11 and upon turning the plug 22 so as to bring the passages 25 into alignment with the openings in the nozzles 21 it will be evident that the water ejected from the nozzles will impinge against the side walls of the bowl 11 adjacent the bottom thereof so as to flush out any dirt or grit that may have collected in the bowl. The flow of water through the nozzles 21 may then be regulated by turning the plug 22 to move the passages out of alignment with the openings in the nozzles, and the further the passages are advanced into the bushing away from the nozzles, the slower will the flow of water through the nozzles be. It will thus be seen that the flow may be regulated to supply clean fresh water to the poultry at all times, and due to the fact that the water constantly flows, danger of freezing of the water in the pipe 14 and in the bowl is materially reduced. It will also be obvious that by adjusting the plug 22 the flow of water

through the nozzles and bowl may be so regulated as to effect material economies in the operation of the device.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as my invention is:

A drinking fountain comprising a bowl having a substantially hemispherical interior contour, an axially disposed internally screw-threaded socket on the bowl adapted to be connected to a water supply pipe, said bowl having an internally screw-threaded axial bore establishing communication with the interior of the socket, a bushing entering the bore from the interior of the bowl, diametrically opposed semi-circular water discharge nozzles carried by the bushing and lying in a plane substantially perpendicular to the axis of the bowl, a plug closing the end of the bushing which enters the bowl, said plug having an axial

recess in its inner end and radial passages communicating with said recess and means to turn the plug in the bushing to regulate the flow of water through the nozzles.

LLOYD S. WINEY.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
715,005	Blair	Dec. 2, 1902
1,023,596	Roessler et al.	Apr. 16, 1912
1,603,198	Edington	Oct. 12, 1926
1,646,246	Hazard	Oct. 18, 1927
2,082,827	Gaber	June 8, 1937
2,106,871	Hogsett	Feb. 1, 1938
2,250,759	Gardner	July 29, 1941

FOREIGN PATENTS

Number	Country	Date
272,364	Great Britain	June 16, 1927
322,683	Great Britain	Dec. 12, 1929