May 2, 1933. G. D. FLANDERS 1,907,349

POULTRY FEEDER AND FOUNTAIN

Filed July 15, 1930 3 Sheets-Sheet 1

Fig. 1.

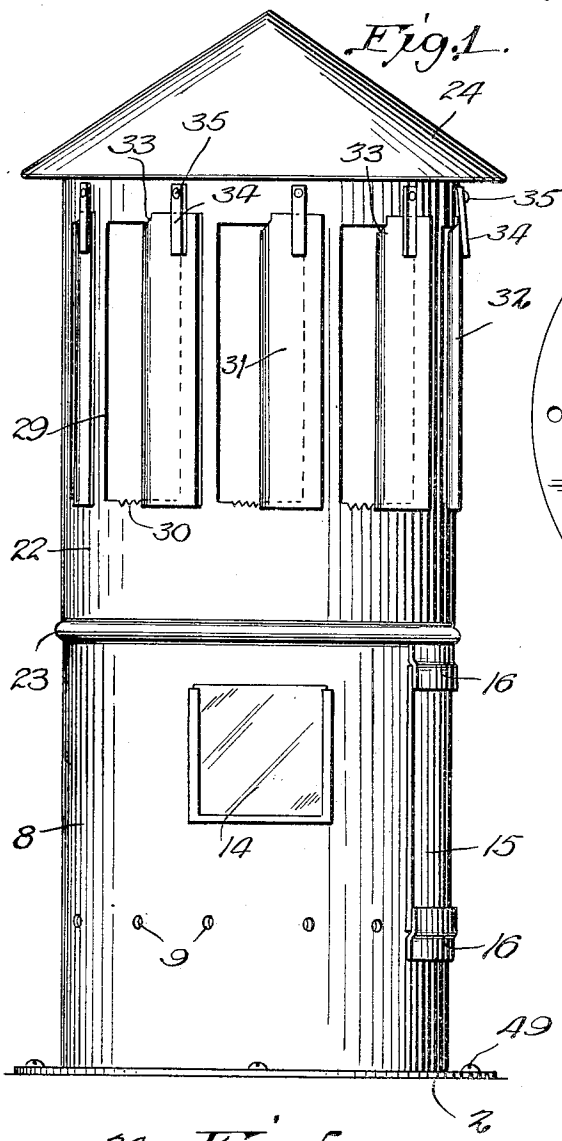


Fig. 3

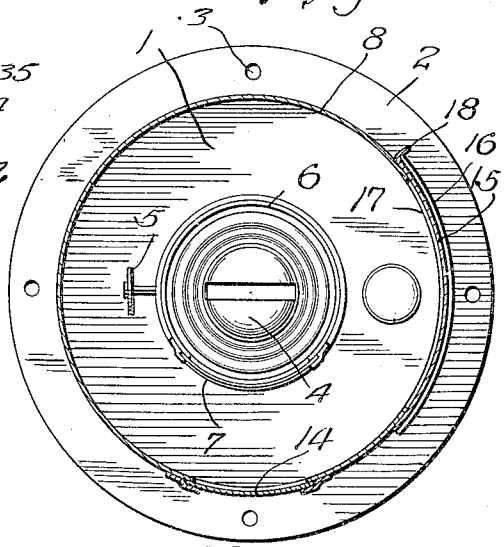


Fig. 6.

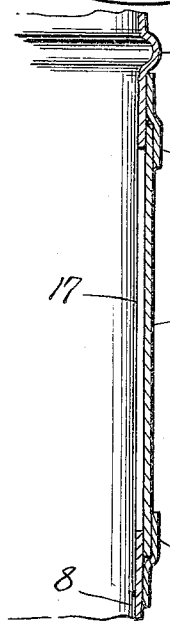


Fig. 5.

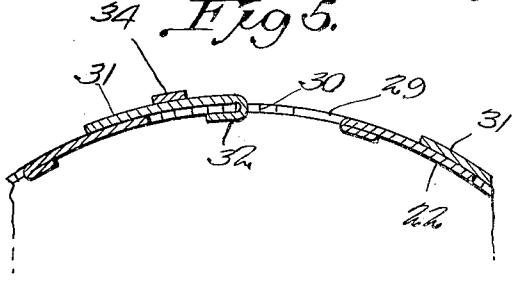
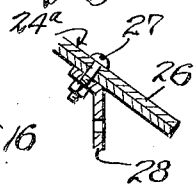


Fig. 9.



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May 2, 1933. G. D. FLANDERS 1,907,349

POULTRY FEEDER AND FOUNTAIN

Filed July 15, 1930 3 Sheets-Sheet 2

Fig. 2.

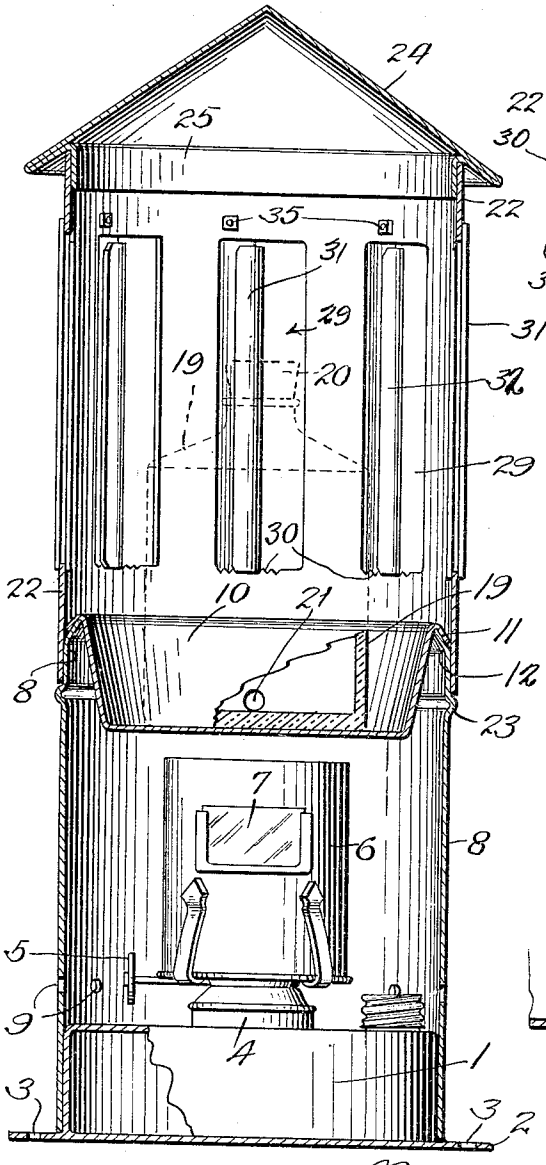


Fig. 4.

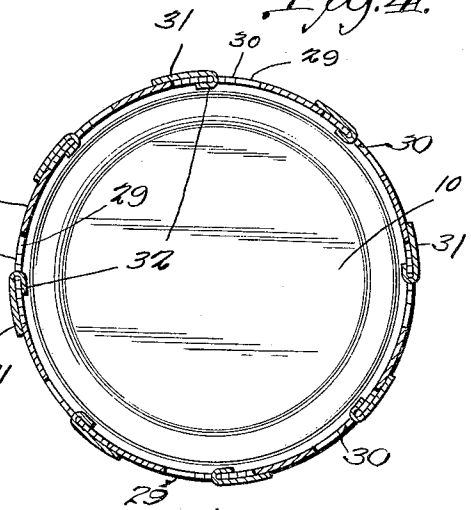
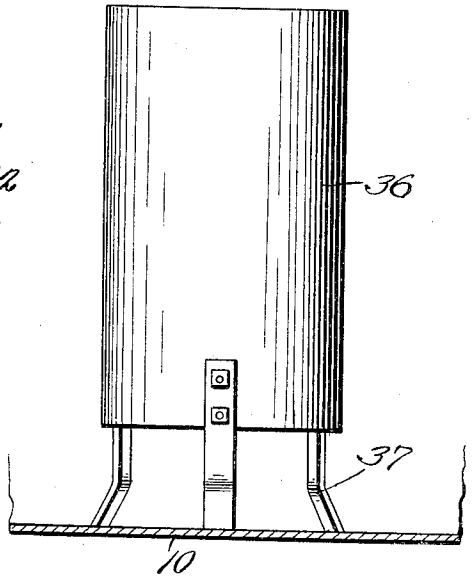


Fig. 8.



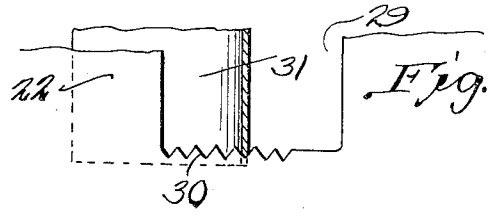


Fig. 7.

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May 2, 1933. G. D. FLANDERS 1,907,349

POULTRY FEEDER AND FOUNTAIN

Filed July 15, 1930 3 Sheets-Sheet 3

Fig. 10.

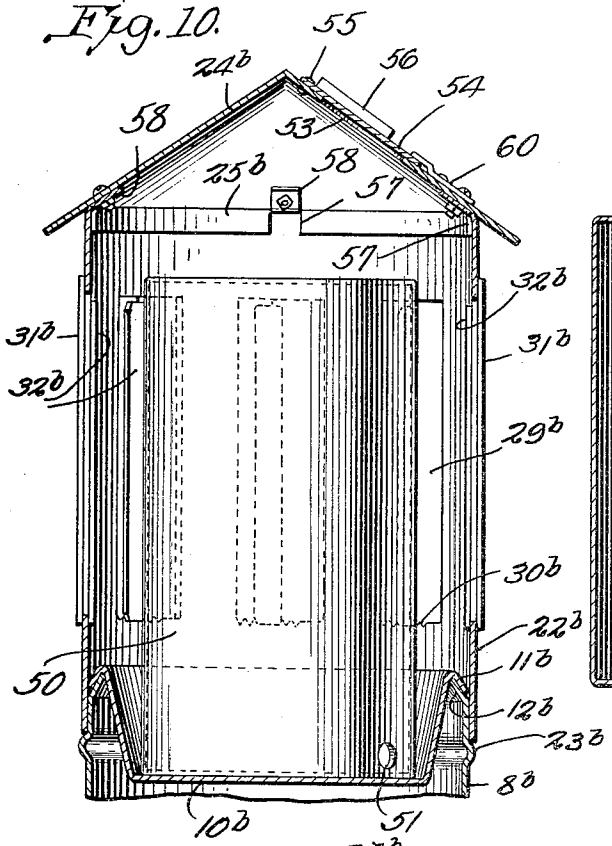


Fig. 11.

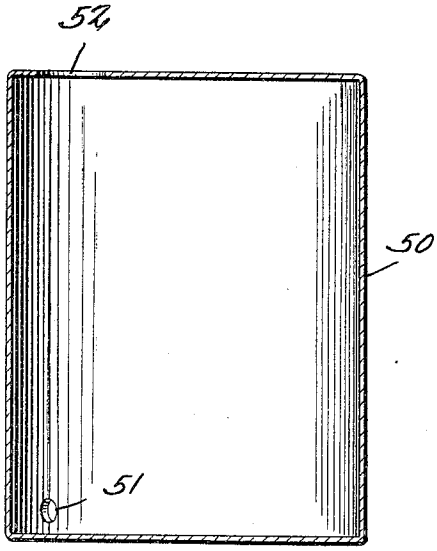
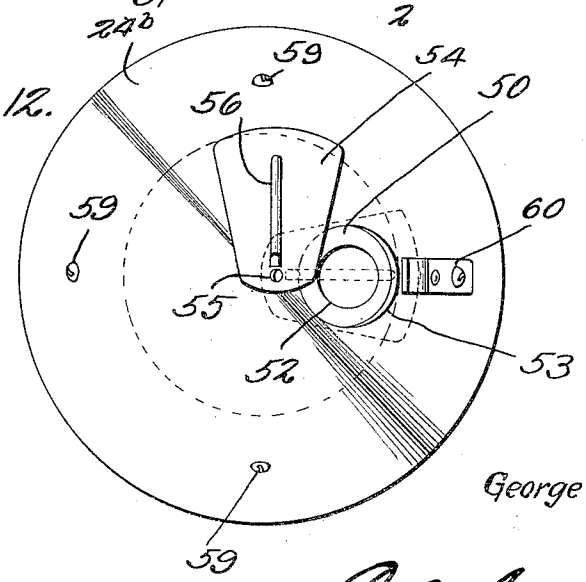


Fig. 12.



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UNITED STATES PATENT OFFICE

GEORGE D. FLANDERS, OF ELLSWORTH, KANSAS

POULTRY FEEDER AND FOUNTAIN

Application filed July 15, 1930. Serial No. 468,092.

This invention aims to provide a poultry feeder and fountain, capable of dispensing either dry feed or liquid, at the will of an operator, the construction being such that the device may be manufactured at trifling expense, and be knocked down to small compass for shipping.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes may be made in the precise embodiment of the invention herein disclosed, within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:

Figure 1 shows in side elevation, a device constructed in accordance with the invention;

Figure 2 is a vertical longitudinal section;

Figure 3 is a transverse section through the base;

Figure 4 is a transverse section through the cap which is superposed on the base;

Figure 5 is a transverse section through the cap, the view illustrating one of the dampers;

Figure 6 is a vertical longitudinal section showing the door in the base;

Figure 7 is a detailed sectional view showing the means whereby the damper is held in adjusted positions;

Figure 8 is an elevation disclosing the receptacle for dry feed;

Figure 9 is a fragmental section showing a slight modification in the cap.

Figure 10 is a vertical section showing a modification;

Figure 11 is a vertical section of the tank;

Figure 12 is a top plan.

The device forming the subject matter of this application preferably is made of metal throughout and includes a tubular body. The numeral 1 marks a tank for liquid fuel, provided at its bottom with an outstanding flange 2 having holes 3 for the reception of securing elements 49 (Figure 1) whereby the device may be held down on a support. The tank 1 carries a burner 4, the controlling means for which is marked by the numeral 5. A metal chimney 6 is supported on the burner 4 in the usual way, and has a mica window pane 7 through which an operator can look, to ascertain how the combustion is progressing.

The tubular body includes a cylindrical base 8 which surrounds the tank 1, and rests at its lower edge on the flange 2, the base being secured to the tank 1 if desired. The base 8 has any desired number of openings 9 for promoting combustion at the burner 4.

In the upper portion of the base 8 is located a water pan 10 which may be supported in any preferred way. As shown, but not of necessity, the water pan 10 has an outstanding flange 11 resting removably on an inwardly inclined circumferential lip 12 at the upper end of the base 8. The base 8 has a mica window 14 which enables the operator to look into the base, and through the window 7, upon the burner 4.

There is an opening 17 in the base 8, giving access to the interior of the base. The opening 17 is closed by a door 15 mounted to reciprocate circumferentially of the base in horizontal guides 16 carried by the base, a finger piece 18 facilitating the manipulation of the door 15.

The tubular body comprises a cylindrical top member 22 which rests on a circumscribing bead 23 on the base 8. The top 22 is surmounted with a conical lid 24 which may have a neck 25 extended downwardly within the top 22. The lid 24*a* may be made in sections, as shown at 26 in Figure 9, and one may fasten the sections 26 together by bolts 27, angle brackets 28 being used to fasten the cap 24*a* on the upper end of the tubular top member 22. The advantages incident to the construction shown in Figure 9 is that the lid can be taken down to save space in shipping. The lid, however, may be of any desired form.

In the tubular top member 22, there are

vertically elongated openings 29. Keepers 30, in the form of teeth are formed in the top member 22, at the lower end of each of the openings 29. Closures 31 slide on the outer surface of the tubular top member 22 and control the openings 29. The closures 31 have trough-shaped flanges 32 in which the constituent material of the tubular top member 22 is received, at one edge of the opening 29. The construction is such that the closures 31 may be slid horizontally to vary the size of the openings, thereby adapting the device for small chickens, as well as for chickens of considerable size. When the closures 31 are adjusted horizontally, their lower edges are received in the teeth 30. The closures 31 are supplied at their upper edges with notches 33 receiving the top member 22 at the upper edge of the openings 29. Clips 34 are secured by bolts 35 to the top member 22 and overlap the upper ends of the closures 31. By tightening up the bolts 35, the clips 34 may be fastened down on the closures 31 and in this way, the closures may be held in any position to which they have been adjusted, along the notches or keepers 30.

The numeral 19 designates a water receptacle which may be a jug, closed at its upper end by a cork 20. The receptacle 19 rests removably in the removable water pan 10 and has a hole 21 in its side, near to the bottom. The water receptacle 19, having been removed, is filled with water, the cork 20 being removed, and a plug, (not shown) being inserted in the hole 21. After the water receptacle has been filled, the cork 20 is replaced, the water receptacle is disposed in the pan 10, and the plug in the hole 21 is pulled out. Water will then flow out into the pan 10 until the hole 21 is covered, and there will always be an adequate supply of water in the pan 10, the water being accessible through the openings 29, so that the fowls can drink.

If desired, the water receptacle 19 can be taken out, and in its place in the pan 10 a tubular receptacle 36, open at both ends, and supported on legs 37, may be used.

The device forming the subject matter of this application is so constructed that it can be used to dispense either food or drink, the material dispensed being heated, or not, at the will of an operator. The construction is such that the contents of the device cannot be fouled or wasted. The conical lid 24 prevents fowls from roosting on the top of the device. The structure is made up of a considerable number of units, any one of which may be replaced at trifling expense, should it become damaged, there being no occasion for buying an entirely new article when one minor part of it has ceased to be useful. The device, as has been intimated hereinbefore, can be knocked down for shipment in small space.

In Figures 10, 11, and 12, parts hereinbefore described have been designated by numerals previously used, with the suffix "*b*".

In the place of the jug 19 of Figure 2, there is used a flat-topped cylindrical tank 50 having a hole 51, corresponding to the hole 21. There is an opening 52 in the top of the tank 50, this opening being disposed below the opening 53 in the conical lid 24*b*. A funnel (not shown) may be inserted through the registering openings 52 and 53, and in this way, the tank 50 can be filled without taking the device apart. The opening 53 in the lid 24*b* is covered by a movable closure 54 pivoted at 55 to the lid 24*b* to swing laterally on the lid. The closure 54 has a finger piece 56 for the manipulation of the closure. When the closure 54 covers the opening 53 in the lid 24*b*, the outer end of the closure 54 engages beneath a keeper 60 on the lid 24*b*.

The device shown in Figs. 10, 11 and 12, is characterized by a novel means for holding the lid 24*b* in place. In this form of the invention, the neck 25*b* of the lid 24*b* is provided in its lower edge with notches 57 receiving tongues 58 which project upwardly and slant inwardly from the upper edge of the top 22*b*. The tongues 58 extend along the under surface of the lid 24*b*. Securing elements 59 are mounted in the lid 24*b* and engage the tongues 58.

Having thus described the invention, what is claimed is:

1. A poultry fountain, comprising a tubular body having a feeding opening, and provided at the lower end of the opening with seats, a horizontally adjustable slidable closure having a portion of its lower edge adjustably received in the seats, the closure being vertically movable in the opening to enable it to be engaged in any one of the seats, and means for holding material for the poultry in the body, in accessible relation to the opening.

2. A poultry fountain, comprising a tubular body having a feeding opening, and provided at the lower end of the opening with seats, a horizontally adjustable closure having a portion of its lower end received adjustably in the seats, the closure being vertically movable in the opening to enable it to be engaged in any one of the seats, means mounted on the body and engaging the upper end of the closure for holding the closure in place on the body, and means for holding material for the poultry in the body, in accessible relation to the opening.

3. A poultry fountain, comprising a tubular body having a feeding opening, and provided with seats at the lower end of the opening, a horizontally adjustable closure having a portion of its lower end adjustably received in the seats, the closure being vertically movable in the opening to enable it to be engaged in any one of the seats, a trough-shaped flange on one longitudinal edge of the closure, the

body being received in the flange along one longitudinal edge of the opening, and means for holding material for the poultry in the body, in accessible relation to the opening.

4. In a poultry fountain, a tubular member, a container in the tubular member, the tubular member having a side opening giving access to the container, a lid on the tubular member and having an inwardly and downwardly extended neck received in the upper end of the tubular member, the neck having notches in its lower edge, the upper end of the tubular member being provided with inwardly extended tongues prolonged through the notches of the neck and upon the lower surface of the lid, and securing devices connecting the tongues with the lid.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature.

GEORGE D. FLANDERS.