J. A. JOCOY.

FOOD HOPPER.

APPLICATION FILED NOV. 2, 1909.

954,968. Patented Apr. 12, 1910.

Fig. 1.

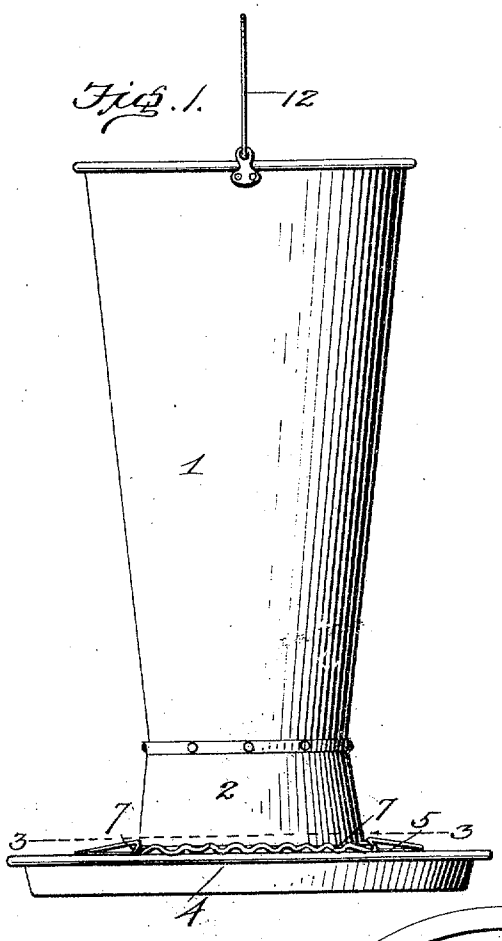


Fig. 2.

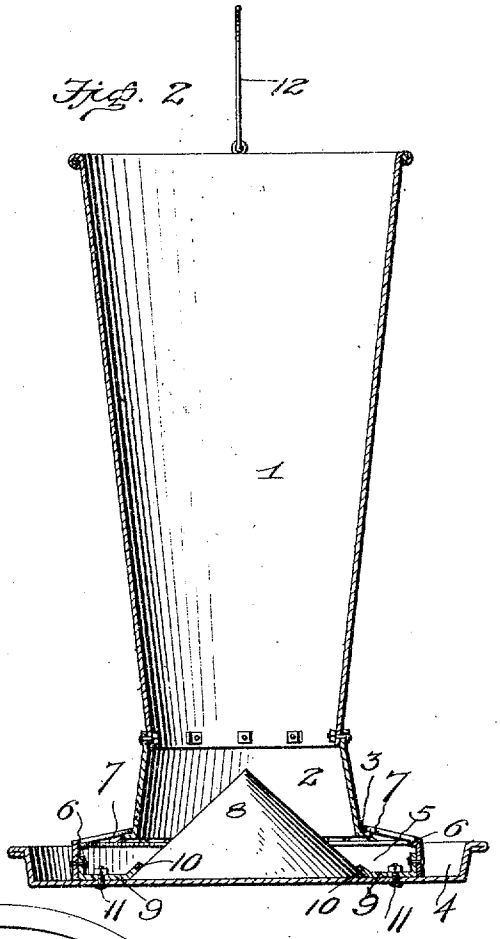
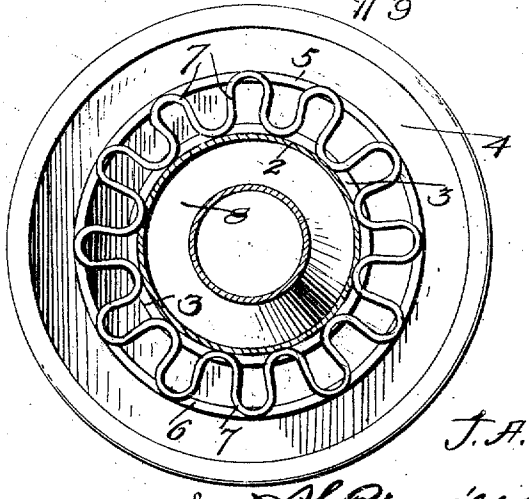


Fig. 3.



Witnesses

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FOOD-HOPPER.

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To all whom it may concern:

Be it known that I, JOHN ALONZO JOCOY, a citizen of the United States, residing at Towanda, in the county of Bradford and State of Pennsylvania, have invented certain new and useful Improvements in Food-Hoppers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to poultry food hoppers.

One object of the invention is to provide a food hopper which is equally well adapted for feeding large or small fowls and having means whereby the food is prevented from being soiled or wasted.

A further object is to provide a hopper of this character having its parts detachably secured together whereby the hopper may be readily taken to pieces and packed into a small space.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a side view of a hopper constructed in accordance with my invention; Fig. 2 is a vertical sectional view of the same; Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 1.

Referring more particularly to the drawings, 1 denotes the main or body portion of the hopper, which is preferably of circular form and tapers gradually from its upper toward its lower end, as shown. Bolted or otherwise removably secured to the lower end of the hopper, is an outwardly and downwardly flaring base section 2. The section 2 is provided on its lower end with an outwardly projecting annular flange 3.

Below the body portion 1 of the hopper, is arranged a tray 4 having a flanged upper edge. Arranged in the tray 4 and spaced a suitable distance from the sides thereof, is an annular rim or band 5, on the upper edge of which is formed an inwardly projecting annular flange 6. Secured to the flange 3 of the base 2 and the flange 6 of the ring 5 and covering the space between said parts, is a wire grating, said grating being preferably formed by a crimped or corrugated wire rod which is soldered or otherwise secured at its bends to the flanges 3 and 6, as shown.

Arranged in the center of the tray 4 and projecting up into the base portion of the hopper, is a food deflecting cone 8. The cone 8 and the ring or band 5 are secured in position in the tray 4 by a series of straps 9, said straps having right angularly bent upwardly projecting ends 10, which are riveted or otherwise rigidly secured to the inner side of the ring or band 5, and have their inner ends bent upwardly at an angle corresponding to the inclination of the sides of the deflector 8 with which said ends are engaged to hold the deflector in place. The horizontal portions of the straps 9 are secured to the bottom of the hopper by bolts 11 whereby the straps may be readily removed to permit the separation of the parts, with which they are engaged.

The parts are preferably formed of galvanized sheet metal and the upper edge of the main or body portion of the hopper is beaded and reinforced by a wire ring. The hopper is also provided with a bail 12 by means of which the same may be readily carried or suspended at any desirable elevation by a cord or other suitable suspending device. By thus supporting the hopper, the latter may be held at various elevations for feeding poultry of different sizes. In using the hopper, the feed is placed in the main body portion and is fed therefrom through the inclined passage formed by the flaring base 2 of the hopper and the deflecting cone 8 into the feed pocket formed by the annular ring or band 5 below the grating 7. The grating 7 prevents the fowls from scattering the feed, while the space between the ring and the sides of the tray 4 serves to catch any particles of food which may be dropped by the fowls while feeding, thus preventing any wasting of the food. The arrangement of the hopper also prevents the fowls from alighting thereon and getting into the feed so that the latter is prevented from becoming soiled.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the

principle or sacrificing any of the advantages of the invention, as defined in the appended claim.

Having thus described my invention, what I claim is:

In a food hopper, a tapered body portion, a flaring base removably secured to the lower end of said hopper, a tray arranged below said base, an annular ring arranged in said tray, said ring being of less diameter than the tray to form a space between the same and the sides of the tray, a cone-shaped deflector arranged in the tray and projecting upwardly into the hopper, a series of right angularly formed straps secured to said ring and detachably secured to the bottom of the tray, whereby said ring is detachably secured in place, upwardly bent cone engaging ends formed on said straps, to secure the cone in the center of the tray, a corrugated wire rod arranged over the space between the base and said angular flange, and a bail secured to the upper end of the hopper.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN ALONZO JOCOY.

Witnesses:
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AUDLEY M. RYAN.