A. L. ADAMS.

VENTILATOR.

APPLICATION FILED MAR. 2, 1914.

1,126,333.

Patented Jan. 26, 1915.

2 SHEETS—SHEET 1.

Fig. 1.

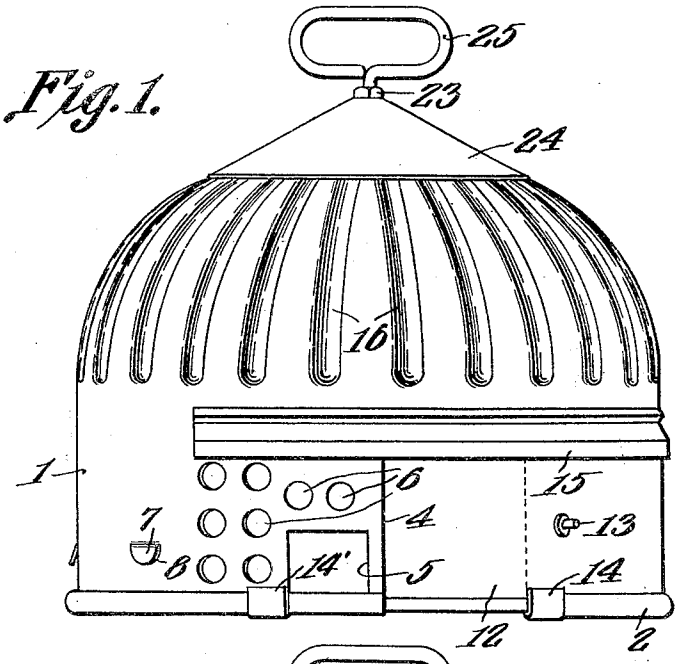
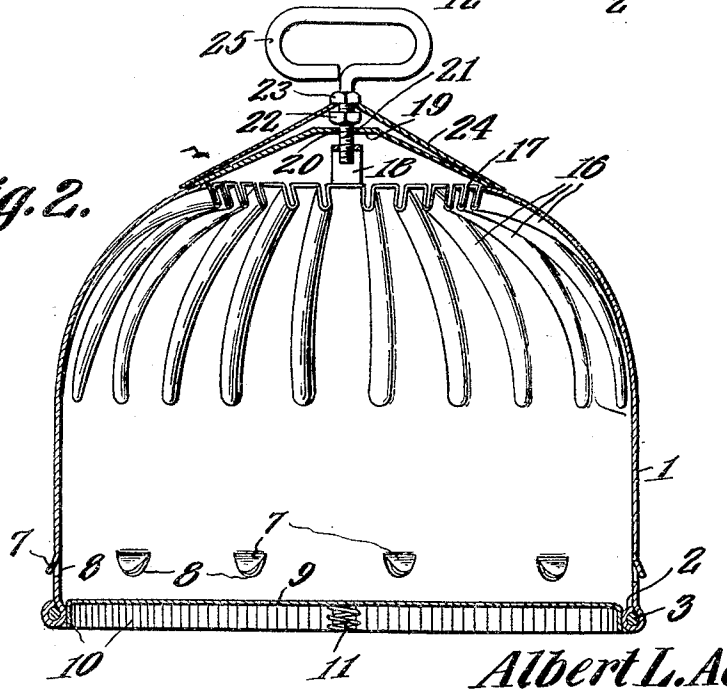



Fig. 2.




Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

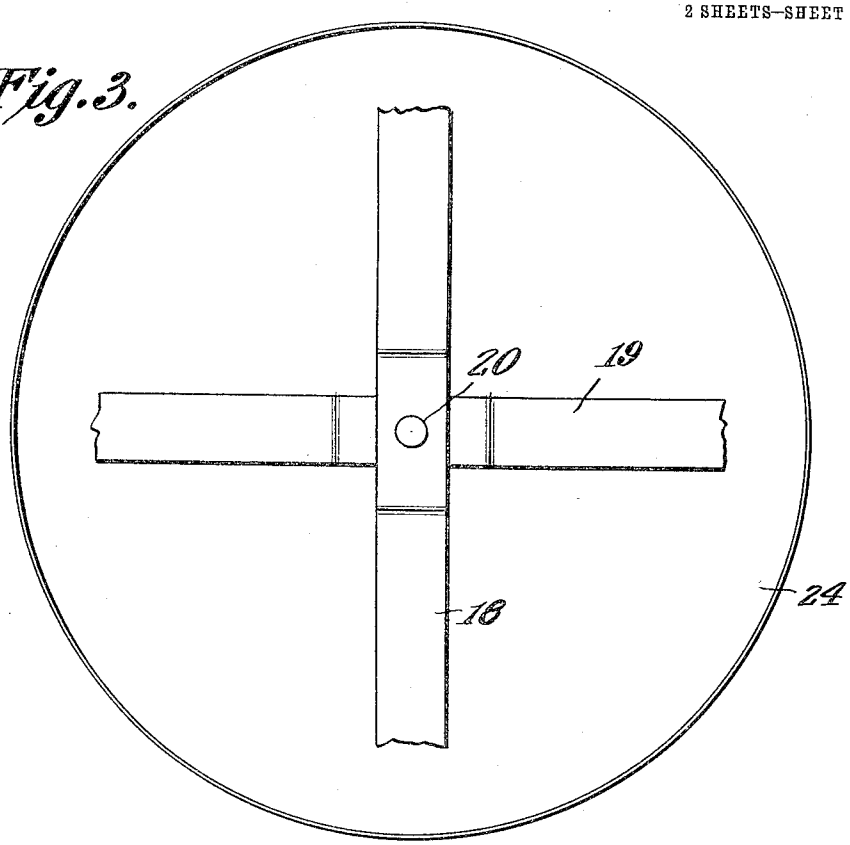



Fig. 5.

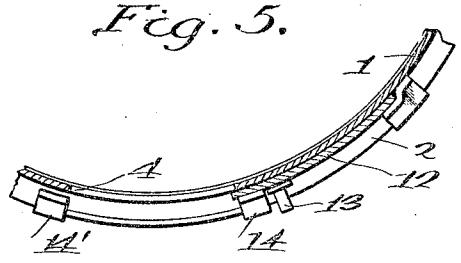
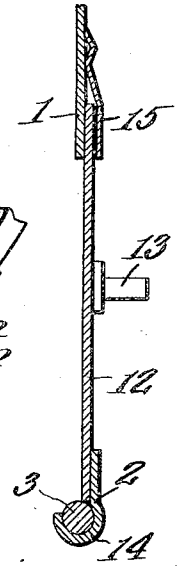



Fig. 4.




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# UNITED STATES PATENT OFFICE.

ALBERT L. ADAMS, OF CEDAR RAPIDS, IOWA.

## VENTILATOR.

1,126,333. Specification of Letters Patent. Patented Jan. 26, 1915.

Application filed March 2, 1914. Serial No. 821,951.

*To all whom it may concern:*

Be it known that I, ALBERT L. ADAMS, a citizen of the United States, residing at Cedar Rapids, in the county of Linn and State of Iowa, have invented a new and useful Ventilator, of which the following is a specification.

The present invention relates to improvements in ventilators more especially adapted for chicken coops or brooders, one object being the provision of a novel form of ventilating means, whereby the desired circulation without draft may be had within the coop or brooder.

With the foregoing 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 in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings—Figure 1 is a front elevation of the complete coop or brooder with the door closed and the chick outlet opened. Fig. 2 is a vertical central sectional view through the complete coop or brooder, the ends of the crossed members of the support being foreshortened. Fig. 3 is a bottom plan view of the ventilating cover and its support removed from the brooder. Fig. 4 is a section through the body and lower rim of the brooder showing the position of the door. Fig. 5 is a cross section taken on line 5—5 of Fig. 1.

Referring to the drawings, the numeral 1 designates the main closure which is made from a single sheet of metal in a circular dome-shaped form, the lower edge 2 being rolled to incase a reinforcing rod 3. An enlarged opening 4 is formed in the lower edge of the inclosure above the rim 3 while the chick outlet 5 is formed as illustrated in Fig. 1, with the apertures 6 which provide for the necessary light within the coop or brooder. A plurality of lips or tangs 7 are cut and pressed outwardly from the body of the material to provide the ventilating openings 8 adjacent the lower rim of the inclosure. Any number of these may be provided as may be found necessary.

The bottom 9 is formed of a disk of metal and is provided with a crimped rim 10 which when properly positioned as shown in Fig. 2 has a resilient outward tension against the lower rim of the inclosure, so as to maintain the bottom in proper sealing position even with the weight of the chicks thereupon and the brooder elevated above the ground. In order to prevent any undue flexing of the bottom and to maintain the upper surface level, a coiled spring 11 is connected centrally thereof and is of sufficient length to engage the ground or surface supporting the brooder at the same time that the lower edge of the rim 10 and the lower rim of the inclosure 1 are in contact therewith. The spring 11 also provides a means whereby the bottom may be manipulated to be removed or placed in position, as illustrated in Fig. 2.

The inclosure 1 is made of such shape that when shipped one may be nested within another and thus save shipment space while the bottoms 9 are also constructed in a similar manner for nesting, it simply being necessary in assembling the present device, that the bottom 9 be placed edgewise within the lower edges of the coop and then turned to assume the position as shown in Fig. 2.

In constructing the present brooder, the body 1, as before stated, is made from a single sheet of metal, the same being preferably galvanized so as to withstand the elements, a plurality of corrugations 16 being formed in one edge thereof so as to impart the shape as illustrated in Figs. 1 and 2 to the complete sheet so that when the edges thereof are overlapped and connected (not shown), an opening 17 may be provided centrally at the top of the coop. The grooves or corrugations 16 therefore provide a plurality of channels leading to and from the opening 17, and in order to provide a means for closing the opening to the desired degree and yet at the same time coöperate with the corrugations 16 to provide a plurality of ventilating channels a conical cover 24 is employed. This cover 24, as clearly illustrated in Fig. 2, carries the handle 25 provided with the screw threaded shank 21, the lock nuts 22 and 23 being disposed thereupon to lock the same to the cover.

In order to adjustably support the cover 24 relatively to the opening 17 and the upper edge of the inclosure 1, the two plates 18 and 19 are provided and have their terminals fast to the outer surface of the inclosure 1 to the exterior surface of the corrugated portion thereof, said plates being provided with alined threaded apertures 20

for the reception of the threaded shank 21 which by the rotation of the handle 25 imparts rotation to the cover 24 and through the threaded connection causes the cover 24 to be moved to and from the inclosure 1 and consequently decreases or increases the space adjacent the corrugated portion and consequently the ventilating space at the top of the coop or brooder. The cover 24 is of such a size as to overlap the edges of the opening 17 to prevent the intrusion of rain so that the present brooder will keep the chicks therewithin in the proper dry and sanitary condition and at the same time permit of the ventilating of the coop or brooder without undue draft upon the chicks. In order to provide a closure for the opening 4 and also that the same may be placed over to close the chick outlet 5 and the light admitting aperture 6, a curved plate 12 which constitutes the door and is provided with the operating knob or handle 13 is slidably mounted concentrically of the exterior face of the inclosure 1 so that its respective upper and lower edges coöperate with the cleats 14—14′ and the water excluding overhanging ledge 15 which is secured to the exterior surface of the coop or inclosure and as particularly illustrated in Figs. 1 and 4. By this means, the door 12 may be moved to assume the dotted line position so as to permit the ready access to the interior of the coop for cleaning or for removing the chicks therefrom.

What is claimed is:

1. A metallic coop or brooder, the body of which is dome-shaped and is provided with a central ventilating opening through the apex thereof, a conical cover for the opening, and coöperating means carried by the cover and body to adjustably mount the cover for movement to and from the body.

2. A metallic coop or brooder, the body of which is dome-shaped and is provided with a central ventilating opening through the apex thereof, a conical cover for the opening, coöperating means carried by the cover and body to adjustably mount the cover for movement to and from the body, the body of the brooder adjacent the opening being convoluted to provide a plurality of ventilating channels a portion of which is overlapped by the periphery of the cover when the cover is in closing position.

3. A metallic coop or brooder, the body of which is composed of a single sheet of metal one edge of which is convoluted to produce a tapering effect and also to provide a ventilating opening at the apex of the coop or brooder, a conical cover for the opening, and coöperable means carried by the cover and spanning the opening and attached to the body of the coop or brooder for adjustably connecting the cover for movements to and from the convoluted edge of the body.

4. A metallic coop or brooder, the body of which is composed of a single sheet of metal one edge of which is convoluted to produce a tapering effect and also to provide a ventilating opening at the apex of the coop or brooder, a conical cover for the opening, coöperable means carried by the cover and spanning the opening and attached to the body of the coop or brooder for adjustably connecting the cover for movements to and from the convoluted edge of the body, and a handle carried by the cover for rotating the same to adjust it and also to provide a means for carrying the coop or brooder.

5. A metallic coop or brooder, the body of which is dome-shaped and provided with a central ventilating opening through the apex thereof, a conical cover for the opening, a bracing plate connected to the upper portion of the body and disposed diametrically of the opening thereof, a threaded stem adjustably connected thereto, and a conical cover connected to the threaded stem for forming a ventilating closure for the opening.

6. A metallic coop or brooder, the body of which is composed of a single sheet of metal one edge of which is convoluted to produce a tapering effect and also to provide a ventilating opening at the apex of the coop or brooder, a plate connected across the opening, a threaded stem adjustably connected to the plate, and a conical cover connected to the threaded stem for forming a ventilating closure for the opening.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ALBERT L. ADAMS.

Witnesses:
F. W. Day,
Wm. A. Weymouth.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."