

H. B. YOUNG.
 SELF VENTILATING BROODER FOR YOUNG CHICKENS.
 APPLICATION FILED JAN. 25, 1910.

982,196.

Patented Jan. 17, 1911.

2 SHEETS—SHEET 1.

Fig 1

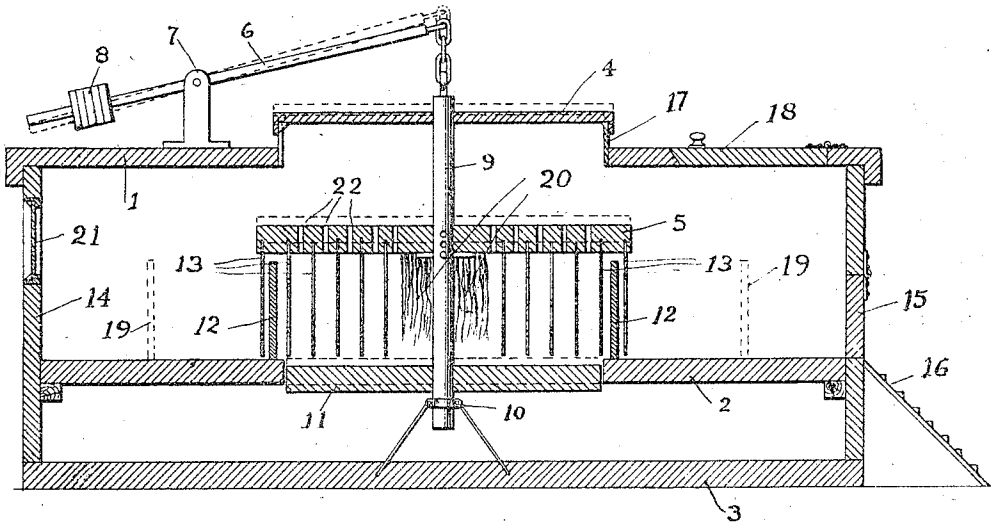


Fig 4

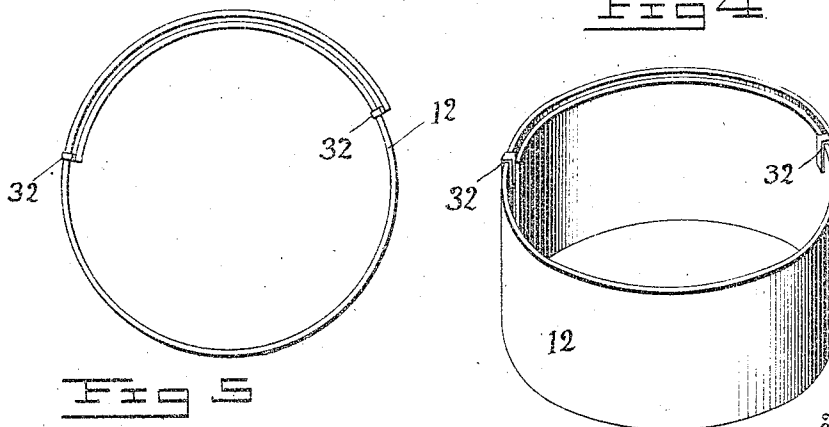


Fig 5

Witnesses

H. C. Poliette
 Mary W. Weeks.

Inventor

Harry Benton Young
 By Edward M. Weeks.

Attorney

H. B. YOUNG.
SELF VENTILATING BROODER FOR YOUNG CHICKENS.
APPLICATION FILED JAN. 25, 1910.

982,196.

Patented Jan. 17, 1911.

2 SHEETS-SHEET 2.

Fig 2

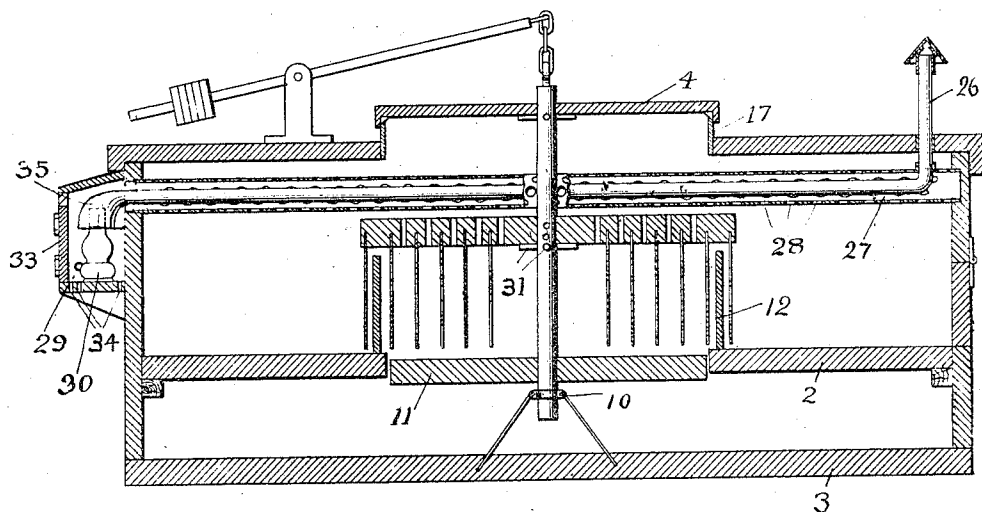
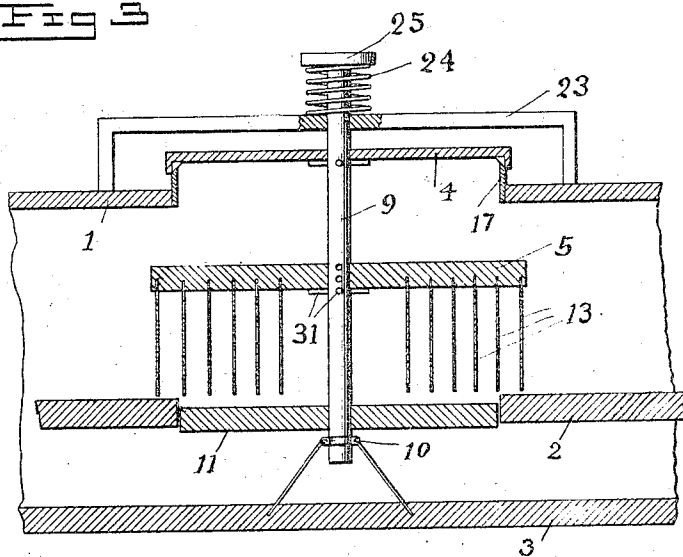


Fig 3



Inventor

Harry Benton Young

By Edward M. Weeks,

Attorney

Witnesses

H. C. Collette

Mary M. Weeks

UNITED STATES PATENT OFFICE.

HARRY BENTON YOUNG, OF MOUNT HOLLY, NEW JERSEY.

SELF-VENTILATING BROODER FOR YOUNG CHICKENS.

982,196.

Specification of Letters Patent.

Patented Jan. 17, 1911.

Application filed January 25, 1910. Serial No. 539,938.

To all whom it may concern:

Be it known that I, HARRY BENTON YOUNG, a citizen of the United States, residing in Mount Holly, in the county of Burlington and State of New Jersey, have invented certain new and useful Improvements Relating to a Self-Ventilating Brooder for Young Chickens, of which the following is a full, clear, and exact description.

My invention relates to poultry culture and it consists substantially in the details of construction and combinations of parts hereinafter more particularly described and pointed out in the claims.

The object of my invention is to provide a self ventilating brooder wherein the instincts and habits of the young chickens may be taken advantage of and made to regulate the ventilation of the brooder, thereby avoiding the necessity of using a lamp to heat the interior of the brooder, while at the same time permitting the use of one, if so desired, in very cold weather.

It has been found that young chicks confined within a coop, when cold, will huddle or crowd together to keep warm, and also if a hover is provided, having on its underside a piece of long haired wool or other soft, warm, material, that they will huddle under it.

The purpose of my invention is to take advantage of this characteristic in young chickens, thereby causing them to regulate the ventilation and the temperature of the brooder.

My invention is illustrated in the accompanying drawings in which like numerals represent corresponding parts in all the figures.

Figure 1 is a sectional, vertical elevation of my invention. Fig. 2 is a sectional, vertical elevation of my invention provided with a lamp and a heating pipe. Fig. 3 is a sectional, vertical elevation illustrating a modification of my invention. Fig. 4 is a perspective view of an adjustable inclosure used when it is desired to confine the young chickens within a limited area within the brooder. Fig. 5 is a top view of the inclosure illustrated in Fig. 4.

Referring to Fig. 1, 1 is a removable top cover of a brooder, 3 the bottom floor and 2 an intermediate floor. 4 is a cover for an opening made in the top cover 1, having around its edge the projecting strip 17. 4

is rigidly secured to the vertical rod 9, which has adjustably attached thereto, the hover 5, and also securely attached to the rod 9 is the movable section 11 of the floor 2. To keep the section 11 level with the floor 2, and the cover 4 normally in a raised position, thereby giving the maximum of ventilation, the lever 6 is provided, the support 7, and the counterbalancing weight 8.

A modification of this construction is shown in Fig. 3 in which a coil spring 24 is employed to raise the section 11, and the cover 4. The hand piece 25 can be screwed on to the rod 9 and employed to regulate the compression of the spring 24 and the amount of weight required to compress it sufficiently to permit closing the cover 4. 10 represents a guide ring secured to the bottom floor of the brooder to maintain the section 11 in correct position with the floor 2. 15 is a door in one of the side walls 14. 16 is an incline runway. 21 represents a window to admit light and 18 a trap door in the top cover 1.

The hover 5 is provided on its underside with a number of strips of material 13, consisting of canton flannel or any soft goods, and with the long hair wool 20. Ventilating holes 22 are provided to facilitate the admission of air from the brooder to the chicks within the hover. The flexible, adjustable ring 12, is provided so the chicks during the first day or two may be conveniently confined within a limited area within the brooder, which may be extended as indicated by the dotted lines 19.

The pipe 26, is provided to conduct the heat from the lamp 30, in the lamp chamber 29, through the brooder. 27 is a perforated pipe surrounding the heat pipe 26.

While the hover 4 is shown having a vertical movement with the floor and cover, it may be attached to the side walls of the coop or other supports and not be affected by the opening and closing of the cover. A covering of burlap or other flexible material, if desired, may be spread upon the floor to conceal the opening between the movable section 11, and the floor 2.

The young chicks, when placed within the brooder, if warm, will be active and run around within the unobstructed space, thereby relieving the section 11 of the floor 2 below the hover free from any weight and permitting the spring 24 or the weight 8 and the lever 6, to raise it and the cover 4,

thus admitting fresh air, but as soon as the interior of the brooder becomes cool, and the young chicks feel the effect of the lower temperature, they will begin to huddle together and following their instincts, will gather beneath the hover 5 and around the wool 20, or other material. The combined weight of the chicks on the movable section 11, will press it down, carrying with it the cover 4, thus shutting off the ventilation until the chicks become warm enough to run about again, when, relieved of its weight, the spring 24 or the weight 8 will raise the section 11 and the cover 4.

If the natural heat of the young chicks is not sufficient to warm them when huddled together under the hover, with the ventilation shut off, a lamp as shown in Fig. 3, or other convenient heating means may be employed, to maintain the temperature at a proper degree.

It is obvious that my ventilating means and control may be embodied in a variety of different constructions and the instincts and characteristics of the chicks taken advantage of to operate said constructions. I therefore do not wish to limit myself to the form herein described but desire to include all such forms as fairly fall within the spirit and scope of my invention.

Having described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A structure of the character specified, comprising a brooder for young chicks and provided with ventilating means and means to automatically regulate said ventilating means by the weight and movement of a determinate number of chicks within said brooder.

2. A structure of the character specified, comprising a brooder for young chicks, and provided with a ventilating opening and a closure for said opening—a floor having a movable section, and means connected with said movable section and said closure whereby said ventilating opening is automatically regulated by the weight of a determinate number of chicks upon said movable section.

3. A structure of the character specified, comprising a brooder for young chicks, and provided with ventilating means, a floor having a movable section, a hover secured above said movable section, and means to automatically regulate said ventilating means by the combined weight of a determinate number of chicks upon said movable section.

4. A structure of the character specified, comprising a brooder for young chicks, and provided with ventilating means, a spring to maintain said ventilating means in an open position, a floor having a movable section, a hover secured above said movable section, and means to automatically regulate said ventilating means by the combined weight of a determinate number of chicks upon said movable section.

5. A structure of the character specified, comprising a brooder for young chicks, and provided with ventilating means, a hover within said brooder, and means to automatically regulate said ventilating means by the weight of a determinate number of chicks beneath said hover.

6. A structure of the character specified, comprising a brooder for young chicks, and provided with ventilating means, a floor having a movable section, a hover secured above said movable section, means to confine the chicks to a limited area within said brooder, and means to regulate said ventilating means by the weight of a determinate number of chicks upon said movable section.

7. A structure of the character specified, comprising a brooder for young chicks and provided with ventilating means, means to confine the chicks to a limited area within said brooder, and means to automatically regulate said ventilating means by the chicks within said brooder.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY BENTON YOUNG.

Witnesses:

ANNA W. KEELEY,
JOSEPH HUFF.