No. 854,587. PATENTED MAY 21, 1907.

G. W. MEACHER & S. L. MONTGOMERY.

BROODER.

APPLICATION FILED OCT. 29, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

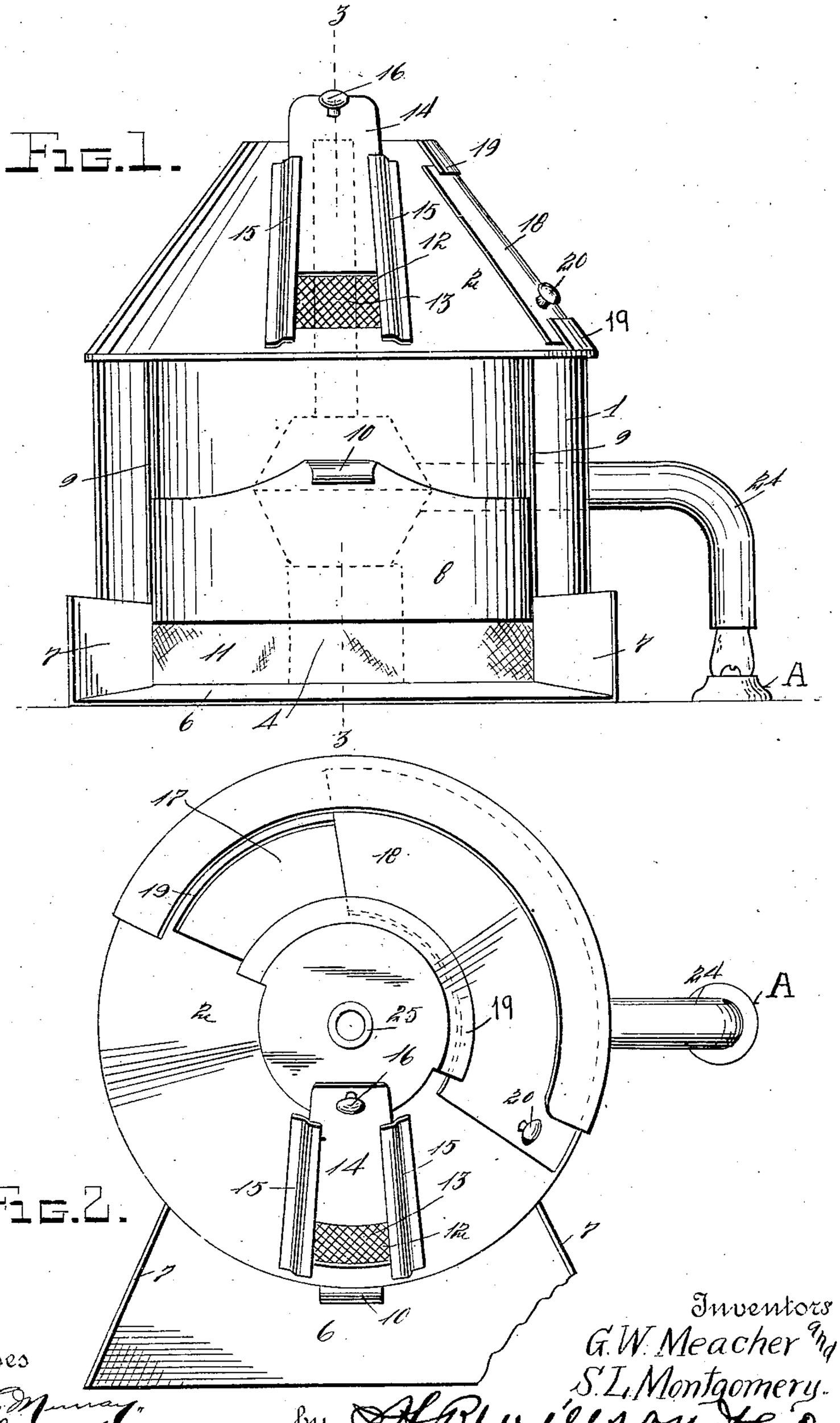

Fig. 2.

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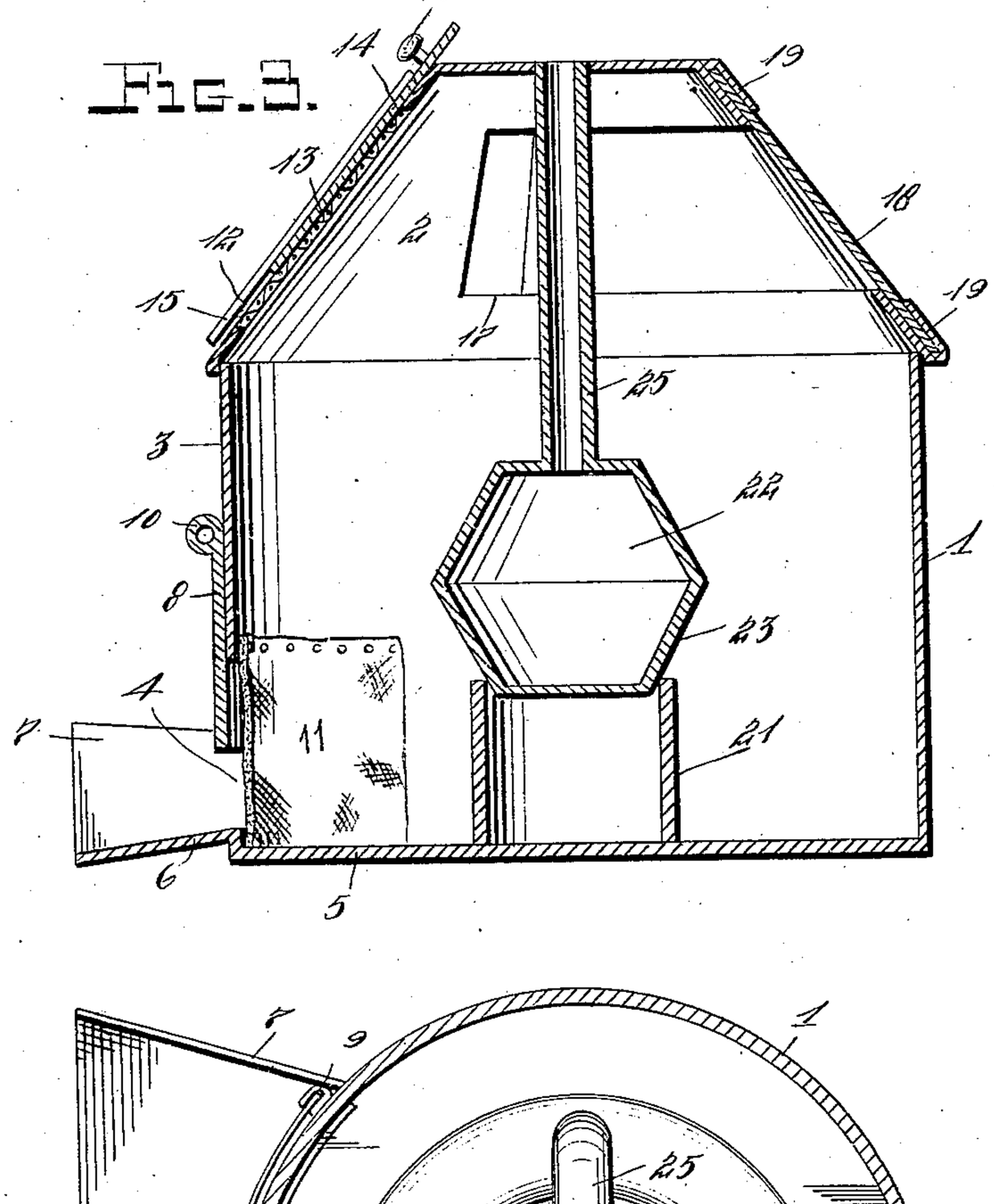
2 SHEETS—SHEET 2.

16

Fig. 3.



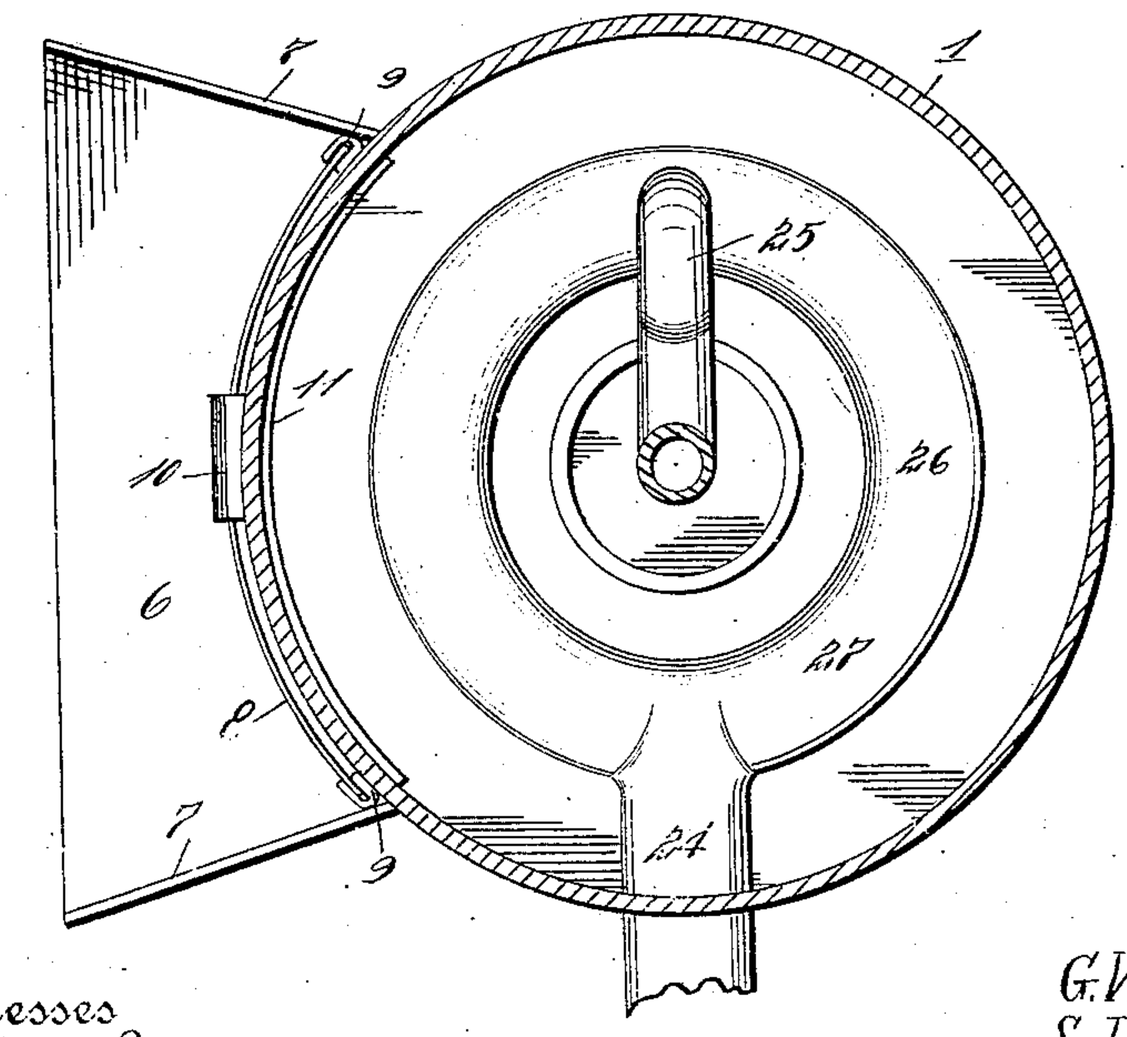


Fig. 4.

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UNITED STATES PATENT OFFICE.

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BROODER.

No. 854,587. Specification of Letters Patent. Patented May 21, 1907.

Application filed October 29, 1906. Serial No. 341,153.

To all whom it may concern:

Be it known that we, GEORGE WASHINGTON MEACHER and STANLEY L. MONTGOMERY, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Brooders; and we 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 improvements in brooders, and it consists in the novel construction, combination and arrangement of parts hereinafter described and claimed.

The object of the invention is to improve and simplify the construction and operation of devices of this character and thereby render the same more durable and efficient, and less expensive.

The above and other objects which will appear as the nature of the invention is better understood, are accomplished by the construction illustrated in the accompanying drawings, in which:—

Figure 1 is a front elevation of the improved brooder; Fig. 2 is a top plan view of the same; Fig. 3 is a vertical sectional view taken on the plane indicated by the line 3—3 in Fig. 1, and Fig. 4 is a horizontal sectional view through the body of the brooder, showing a modified form of heater arranged therein.

Referring to the drawings by numeral, 1 denotes the body of the improved brooder. This body is preferably constructed of sheet metal and is of cylindrical form, having fixedly secured upon its open upper end a top 2, preferably of frusto-conical form. Formed in the front of the vertical side wall 3 of the body 1 is an opening 4, through which the chicks pass in entering and leaving the brooder. This opening 4, which extends circumferentially a suitable distance, is arranged slightly above the bottom 5 of the body 1, and leading up to it is an inclined plate 6, up and down which the chicks walk in entering and leaving the brooder. This plate 6 is of greater width at its outer and lower end than at its upper and inner end, and its sides are bent upwardly at right angles to provide flanges 7. Mounted to slide vertically upon the outer face of the body 3 is a door 8 which is adapted to close the opening 4. This door 8 is curved to conform to the curvature of the side wall 3, and its ends slide in guides 9, as shown in Fig. 4. At the center of the top of the door 8 is formed a finger piece 10, by means of which it may be readily raised and lowered. Also closing or covering the opening 4 is a curtain 11 of felt or other fabric. This curtain depends from the inner face of the wall 3, to which it is secured at a point just above the top of the opening 4, as seen in Fig. 3.

The frusto-conical top 2 of the brooder body has formed in its front a vertically-extending opening 12, across which is stretched woven wire fabric or the like 13. This opening 12 is provided for ventilation purposes and it is adapted to be closed by a sliding door 14. This door is in the form of a plate having its edges slidably engaged with guides 15 arranged upon the outside of the cover 2 adjacent to the opening 12. A finger piece or knob 16 is provided at the upper end of the top or slide 13, so that it may be readily operated. In the cover 2 is also formed a horizontally-extending opening 17 of sufficient size to permit a person's hand to be inserted for the purpose of cleaning the interior of the brooder or removing the chicks therefrom. This opening 17 is closed by a sliding door 18 which is in the form of a plate curved to conform to the outer surface of the top 2 upon which it slides, its upper and lower edges engaging guides 19 provided upon said top, as clearly shown in the drawings. This door or slide 18 is also provided with a finger piece or knob 20, by means of which it may be readily opened or closed.

Provided upon the bottom 5 of the brooder body 1 is a concentric wall 21, which is adapted to support a heater 22 and against which the chicks may huddle. As shown in Figs. 1 and 3 of the drawings, the heater 22 comprises a hollow body of double frusto-conical form, the lower end 23 of which is adapted to fit into the circular wall 21. Opening into the body 22 is an inlet pipe 24 which extends through an opening in the side wall 3 of the body 1. A discharge pipe 25 projects from the top of the body 22 and out through the center of the top 2, as seen in Fig. 3. A lamp is here shown at A to pass its heat and products of combustion through the pipe 24, the body 22 and the discharge pipe 25.

If desired, a heater 26 of the form shown in Fig. 4 may be substituted for the one just described. This heater, instead of having a body of the form shown in Fig. 3, may have one consisting of a hollow ring 27, into one side of which the inlet pipe 24 opens. The discharge pipe 25 of this form of heater projects from its annular body at a point diametrically opposite the inlet pipe 24 and is curved upwardly to project through the top 2, as will be readily understood.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation and advantages 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 by the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters-Patent is:—

1. A brooder comprising a body having an entrance opening for the chicks and a ventilation opening, closures for said openings, a vertical wall upon the bottom of said body, a heater supported upon said vertical wall, an inlet pipe for the heater projecting through the side wall of the brooder body, and a discharge pipe for the heater projecting through the top of the brooder body.

2. A brooder comprising a circular body having a frusto-conical top, the side wall of the body having an entrance opening for the chicks, and the inclined portion of said top having a vertically-extending ventilation opening and a horizontally-extending clean-out opening, closures for the said openings in the side and top of the body, an upright wall upon the bottom of said body, and a heater supported upon said wall.

3. A brooder comprising a circular body having a frusto-conical top, the side wall of the body having an entrance opening for the chicks, and the inclined portion of said top having a vertically-extending ventilation opening and a horizontally-extending clean-out opening, a vertical sliding door for said entrance opening, a curtain for said entrance opening, an inclined plate leading up to said entrance opening, a reticulate material covering said ventilation opening, a sliding door for closing said ventilation opening, a sliding door for closing said clean-out opening, an upright wall arranged centrally upon the bottom of said body, a heater supported upon said upright wall, an inlet pipe for said heater extending through the side wall of the body, and a discharge pipe for said heater extending through the top of said body, substantially as shown and described.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

GEORGE WASHINGTON MEACHER.
STANLEY L. MONTGOMERY.

Witnesses:
WILLIAM STEWARDSON,
A. RUNDBERG.