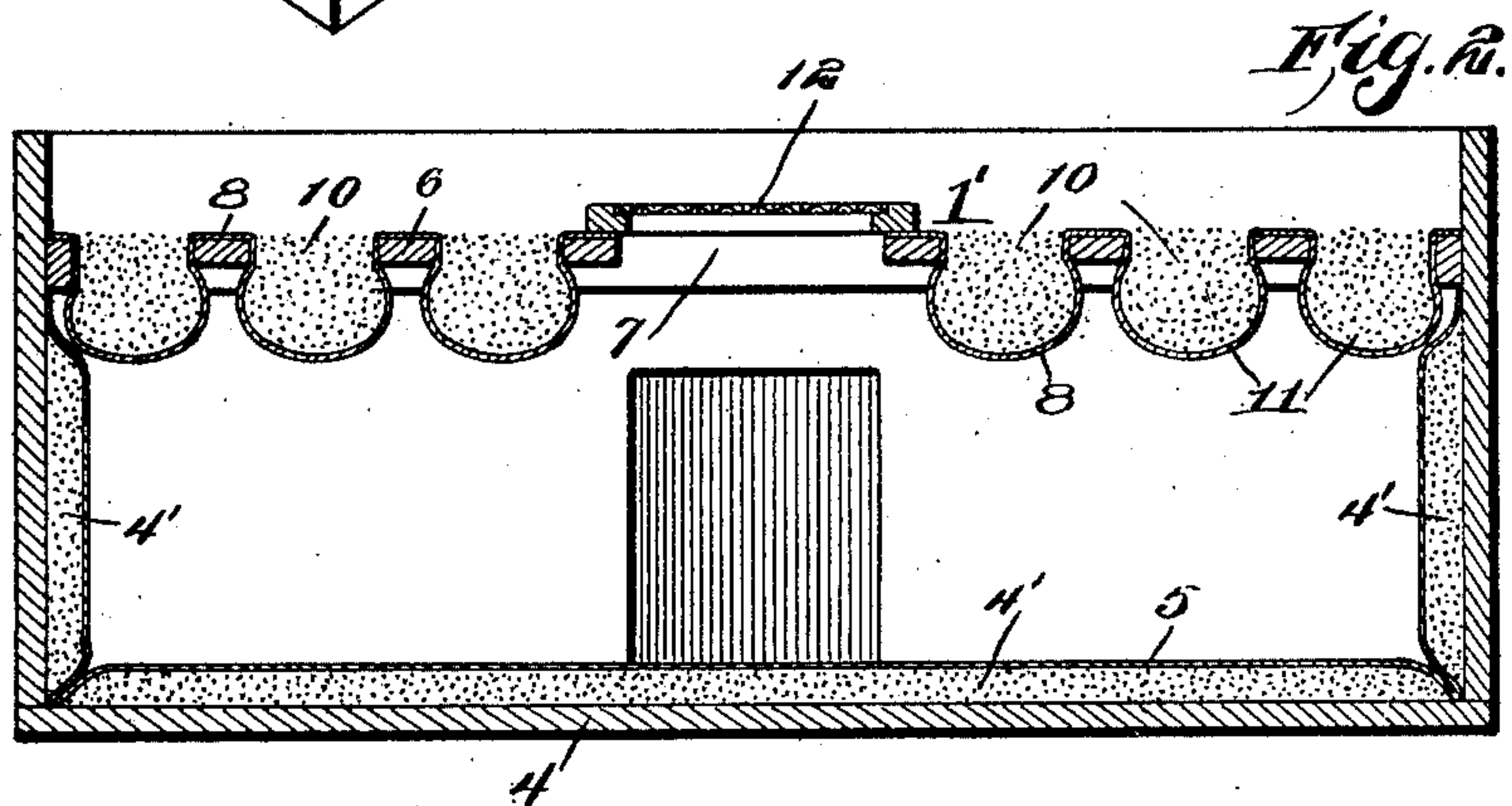
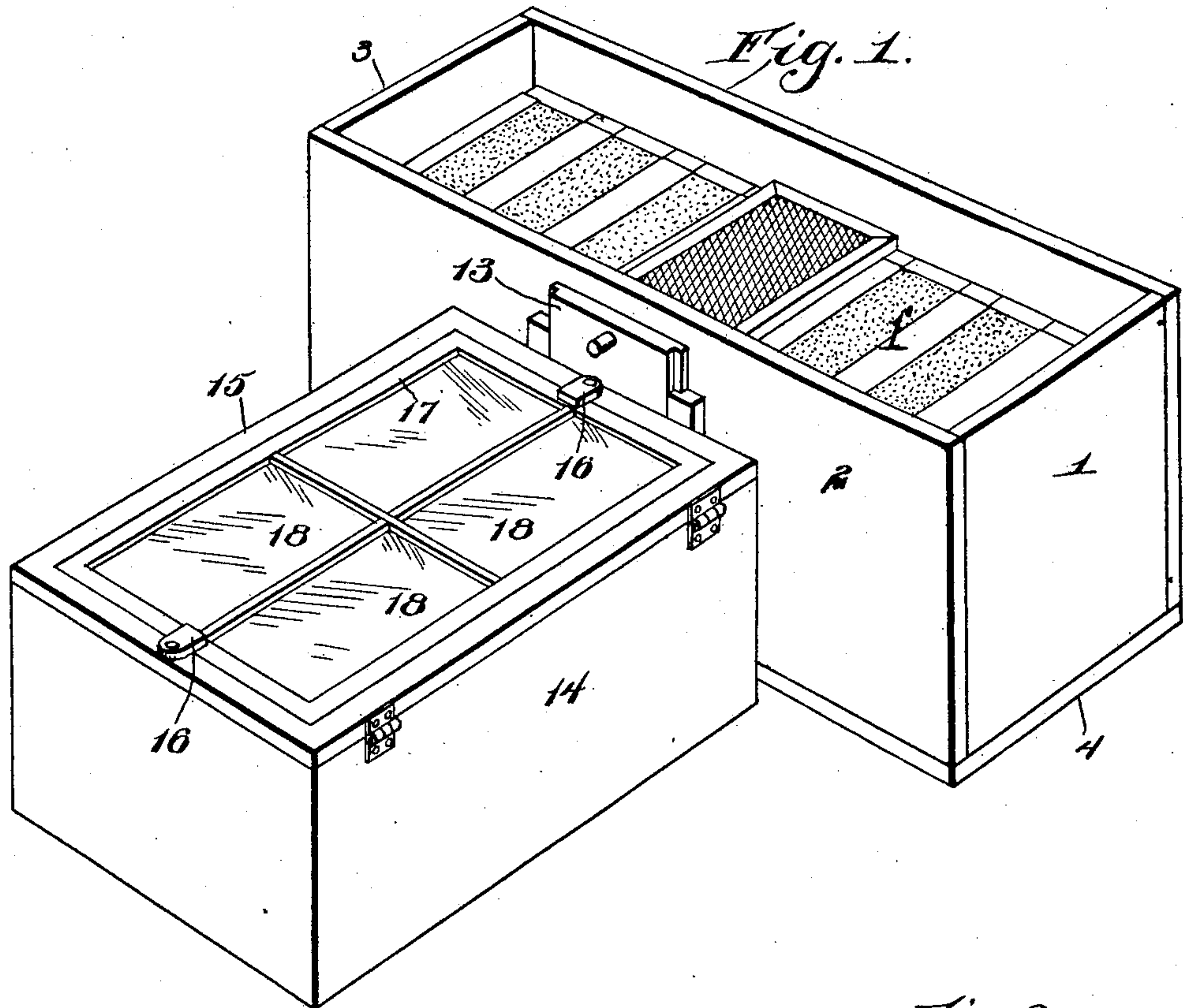


No. 826,932.

PATENTED JULY 24, 1906.

E. GRUMMER.  
BROODER.

APPLICATION FILED MAR. 21, 1906.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

EDWARD GRUMMER, OF LUZERNE, IOWA.

## BROODER.

No. 826,932.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed March 21, 1906. Serial No. 307,268.

*To all whom it may concern:*

Be it known that I, EDWARD GRUMMER, a citizen of the United States, residing at Luzerne, in the county of Benton and State of Iowa, have invented new and useful Improvements in Brooders, of which the following is a specification.

The invention relates to an improvement in brooders designed for service as an artificial protecting device or mother for chickens and other poultry.

The main object of the present invention is the construction of a brooder designed to provide an inclosure in which very young poultry may be safely housed and protected against the elements, the construction providing an artificial condition as nearly resembling the natural protection of the mother as possible.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which—

Figure 1 is a perspective view illustrating my improved brooder, showing the same for use in connection with a feed-chamber. Fig. 2 is a central longitudinal section of the brooder.

Referring particularly to the drawings, my improved brooder comprises a box-like casing 1, including side and end walls 2 and 3 and a bottom 4. The brooder is preferably constructed of wood or similar light material and is of course to be of the size desired in connection with the number of the chickens intended to be housed. The side walls, end walls, and bottom are covered with a layer of non-heat-conducting material 4', such as cotton, which may be of any desired thickness, and over this layer 4' is arranged a strip 5 of textile material to provide for supporting the cotton and at the same time providing a comparatively smooth finish.

The roof of the brooder is formed of a series of transversely-arranged strips 6, the central strips being spaced apart to provide an opening 7 and the successive strips on each side the central strips being regularly and uniformly spaced from said central strips and from each other, the spacing of said latter strips being less than the distance between the central strips, as clearly shown in Fig. 2.

A strip of textile material 8, similar to the strip 5, is secured between the strips 6, being

preferably secured upon the upper surface of said strips and depending between the strips to form back-like extensions. The backs are filled with the non-heat-conducting material 10, similar to the layer 4', said material being preferably in sufficient quantity to fill the back-like extensions and provide a series of depending ribs 11, which are arranged wholly transverse the brooder and in spaced parallel relation, as clearly shown in Fig. 2.

The ribs 11 are designed to afford a protecting medium between and beneath which the chickens may hover, said ribs, owing to their connections with the slats through the medium of the textile strip 8, being comparatively freely movable within limits, as will be obvious. It will thus be noted that the top of the brooder, hereinafter referred to as the "hover-board" 1', is formed with a series of depending ribs extending transversely thereof, each of which is formed wholly of non-heat-conducting material and which are movable relative to the fixed portion of said board.

The opening provided between the central slats 6 is designed to be closed by a suitable cover which may in the event a certain degree of ventilation is desired for the brooder comprise a screen 12, the side strips of which are designed to be supported upon the central strips 6 of the hover-board, as clearly shown in Fig. 2. It is obvious, however, that the cover may, if desired, be of a solid light and air-excluding medium, whereby to effectually and entirely close the opening formed between said strips.

By preference the brooder is maintained as a dark chamber, experience having demonstrated the advantage of such. To further increase this effect, the textile strips 5 and 8 are preferably of dark or black material. One side wall 2 of the brooder is formed with an entrance-opening designed to be closed when desired by a slide-door 13, which may be of any usual or preferred construction.

In connection with the brooder I provide a feeding-chamber comprising a casing 14, having a top 15. The top is hinged to the casing and comprises a rectangular frame in which is adapted to be secured, through the medium of turn-buttons 16, a frame 17, containing one or a series of lights 18, by which light and heat from the atmosphere may be admitted into the feed-chamber. By virtue of the removability of the frame 17 I arrange the



feeding-chamber for adaptation to varying conditions, as I am thereby permitted to substitute for said glass frame an opaque frame, if it is desired to cut off the light completely, 5 or a screen-frame in the event it is desired to ventilate the feed-chamber.

An opening is formed in one end wall of the feeding-chamber which is commensurate in size with the opening in the brooder, so that 10 said openings may be alined and the chicks permitted to enter the feeding-chamber from the brooder when it is desired to exercise or feed them.

The construction described is simple and 15 provides for an effective housing and protection for the poultry, in fact serving in all respects as an artificial mother.

Having thus described the invention, what is claimed as new is—

A brooder comprising a casing, a hover- 20 board secured therein comprising a series of strips arranged transverse the casing, and a series of intermediate depending ribs of non-heat-conducting material, the transverse center of the hover-board being free of said non- 25 heat-conducting material to provide an opening, and means to cover said opening.

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

EDWARD GRUMMER.

Witnesses:

W. A. MALL,

W. H. GRUMMER.