

W. B. McMEANS.  
HEATING APPARATUS FOR BROODERS.  
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982,155.

Patented Jan. 17, 1911.

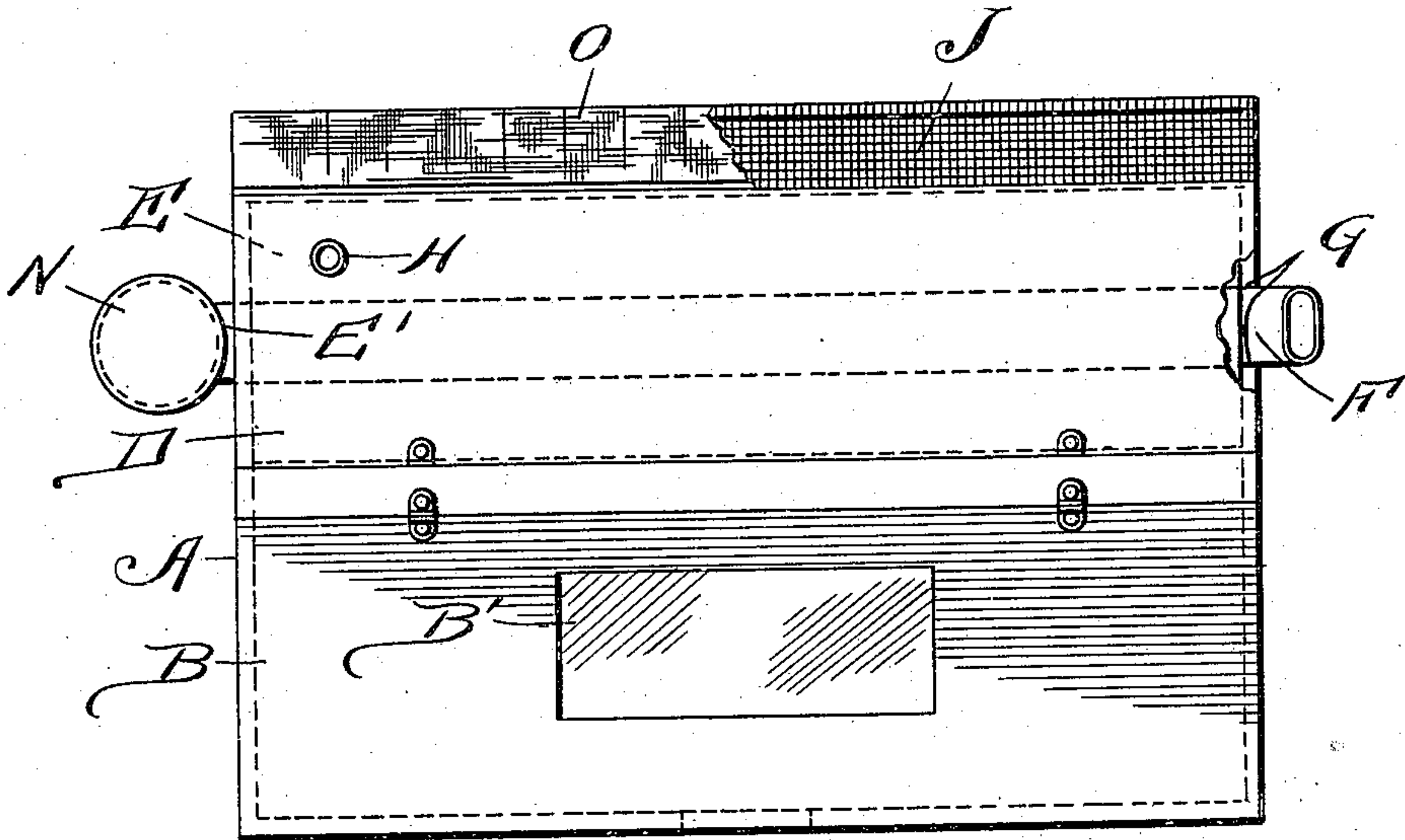
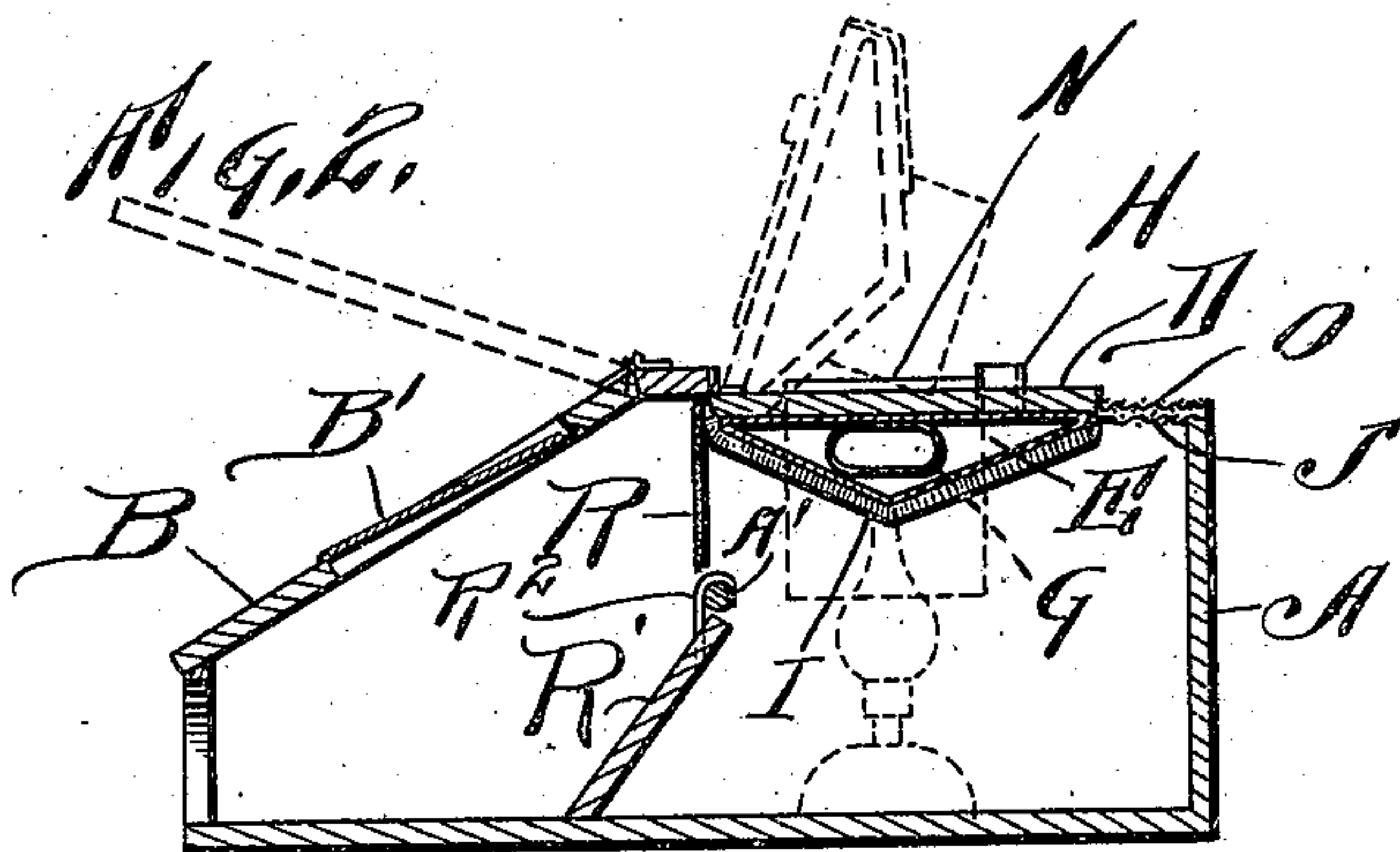


Fig. 1.



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# UNITED STATES PATENT OFFICE.

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## HEATING APPARATUS FOR BROODERS.

982,155.

Specification of Letters Patent.

Patented Jan. 17, 1911.

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*To all whom it may concern:*

Be it known that I, WARREN B. McMEANS, a citizen of the United States, residing at Cromwell, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Heating Apparatus for Brooders; and I do hereby 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in brooders and particularly to a simple and efficient means for heating and ventilating the same.

The invention comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a top plan view of my brooder, and Fig. 2 is a sectional view transversely through the same, showing in dotted lines the heating chamber which is hinged and forms a part of the top raised in elevated position.

Reference now being had to the details of the drawings by letter, A designates the casing of a brooder which may be of any size or shape and provided with openings in the top, and B is a door which is hinged over one of said openings and having a window B' therein.

D designates a second door which is hinged to a portion of the top intermediate said openings. A heating chamber E is fastened to said door D and has its lower face angular and projecting from the ends of the heating chamber are the pipes E' and F which, when the door carrying the heating chamber is closed, are adapted to rest in the recesses G in the ends of the casing. A pipe H leads from the heating chamber through the cover D and affords means whereby any steam which may be generated within the chamber may make exit to the atmosphere. One end of the pipe, which is adapted to communicate heat from the lamp, has a hood N fastened thereto underneath which the lamp would be placed as shown in dotted

lines in Fig. 2 of the drawings. A rod A' is supported by the walls of the casing and a door R' having hooks R<sup>2</sup> thereon engages over the rod A' and forms a supporting means for said door R'. Said door R', when closed, is disposed at an inclination and its lower edge rests upon the bottom or floor of the brooder. A curtain R hangs from the top of the casing and its lower end is positioned over the upper end of the door R'.

It will be noted upon reference to the drawings that the cover which carries the heating chamber terminates a slight distance from the side wall of the casing, leaving an opening which is covered by a screen J, affording means for ventilation to the space beneath the heating chamber. In order to regulate the ventilation through said screen, a cloth, designated by letter O, is fastened to the edge of the cover D and adapted to rest over said screen and which cloth may be thrown back, if desired, to allow for better ventilation.

It will be noted upon reference to the cross sectional view of the drawings that the heating chamber is narrow and extended preferably the width of the cover to which it is attached and its under surface is angular and has a covering I of any soft material, such as felt, so that the backs of the chickens within the brooder will not come in direct contact with the metallic surface of the heating chamber. Hinged immediately below said cloth R is a door R' which normally rests, when closed, upon the bottom of the brooder and which may be swung upward when it is desired to have access to the compartment underneath the heating chamber.

From the foregoing, it will be noted that, by the provision of a brooder made in accordance with my invention, means is afforded whereby the heating chamber may be swung open to allow the casing to be cleansed and aired and, owing to the peculiar arrangement of the heating apparatus, the chickens may be kept comfortable and warm without coming in direct contact with the wall of the heating chamber and, by the provision of the space intermediate the swinging end of the cover D and the end of the casing, means is afforded for keeping the brooder thoroughly ventilated.

What I claim to be new is:—

A brooder comprising a casing having openings in its top, the marginal edge of



one of said openings being at an inclination,  
a door hinged thereto, a second door hinged  
to a portion of the top intermediate the  
openings, a heating chamber fixed to the  
5 under surface of said second door and hav-  
ing its lower face angular, the door to which  
the heating chamber is fastened forming a  
hinged closure for a portion of one of said  
openings, a screening interposed between the  
10 free swinging edge of the heating chamber  
and the side wall of the casing, a pipe ex-  
tending through the heater and the opposite  
sides of the casing, a door with hooks there-  
on within the casing, a rod mounted in the

casing and upon which the hooks of the 15  
door are pivotally mounted, the latter nor-  
mally resting, when closed upon the bottom  
of the casing and at an inclination, and a  
curtain hanging from the top of the casing  
and its lower end positioned between the 20  
upper end of said door with hooks thereon.

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

WARREN B. McMEANS.

Witnesses:

WM. M. HEINEY,  
MELIN L. WERKER.