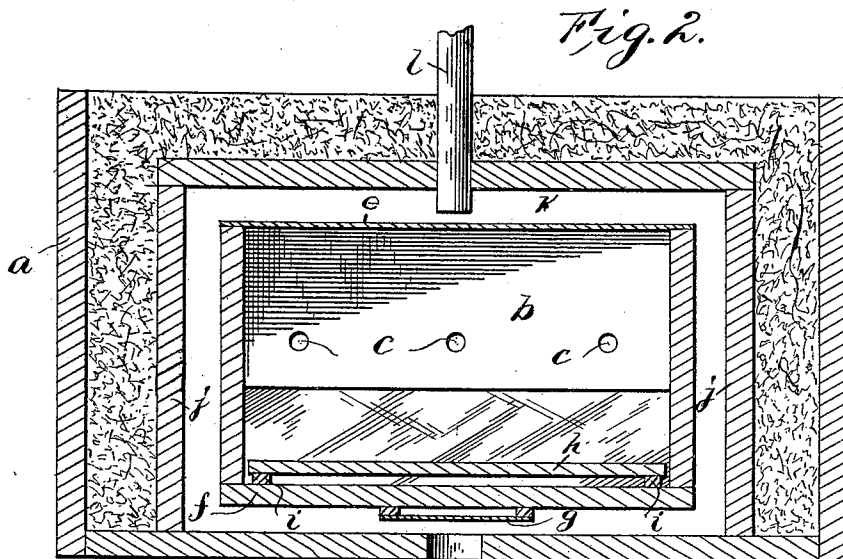
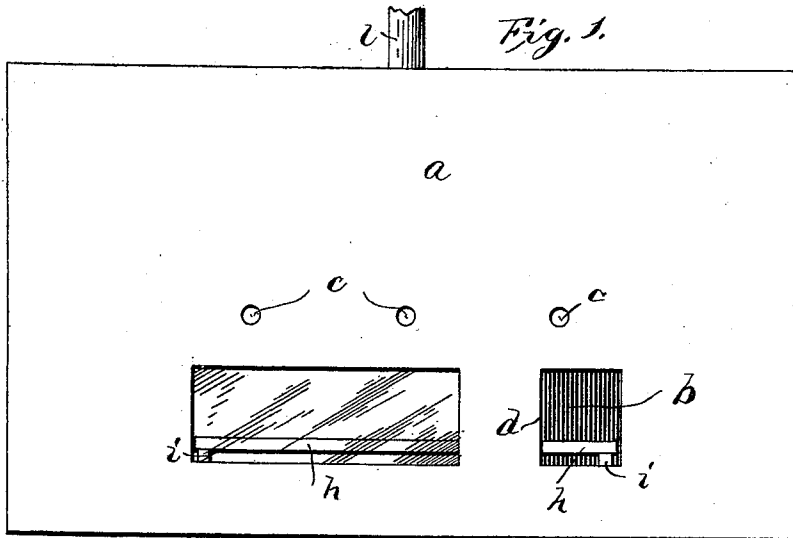


(No Model.)

N. HOLLOWAY.
CHICKEN BROODER.

No. 493,586.

Patented Mar. 14, 1893.



WITNESSES:

E. C. Duff
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UNITED STATES PATENT OFFICE.

NIXON HOLLOWAY, OF LINCOLNVILLE, INDIANA.

CHICKEN-BROODER.

SPECIFICATION forming part of Letters Patent No. 493,586, dated March 14, 1893.

Application filed September 14, 1892. Serial No. 445,881. (No model.)

To all whom it may concern:

Be it known that I, NIXON HOLLOWAY, of Lincolnville, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Brooders; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in chicken brooders.

The object of the invention is to provide an improved chicken brooder cheap, simple and durable in construction and composed of a minimum number of parts and which can be easily operated and wherein the brooding chamber can be maintained at a substantially uniform temperature.

The invention consists in certain novel features of construction and in combinations of parts more fully described hereinafter and particularly pointed out in the claim.

Referring to the accompanying drawings. Figure 1, is a front elevation of the brooder. Fig. 2, is a central longitudinal section thereof.

In the drawings the reference letter *a*, indicates the outer casing or wall of the brooder.

b, indicates the brooding chamber within said casing having the windows or doors preferably covered with glass and also having the air holes *c*, and the small opening *d*, through which the chickens can pass into or from a side inclosure or entrance. This chamber has a tin or other metal top *e*, and the floor *f*, thereof is preferably of wood and is provided with the centrally located shield *g*, on its under side formed of a piece of tin or sheet metal secured to strips which are directly secured to the under side of the floor thereby leaving an air space between the metal and the floor. This shield is located directly over an opening in the bottom of the casing which forms the hot air inlet and hence prevents the floor being too highly heated. A false or supplemental floor *h*, is also provided for the brooding chamber. This supplemental floor has cleats *i* secured on one side so that the sup-

plemental floor will be raised when resting on said strips or cleats thereby leaving an air space between the two floors hence preventing excessive heating of the false bottom by the air space between them. In practice the false floor is usually laid directly on the main floor with the strips on the upper side, when the chickens are first placed in the chamber or when the device is being heated up, but after the heat becomes more intense the false floor can be reversed so as to form the intervening air space and thereby reduce the temperature and evenly regulate the same. This false bottom can be removed whenever desired for cleaning.

A heating chamber is formed beneath the brooding chamber into which the hot air is discharged as before described. Partitions *j, j*, on opposite sides of the brooding chamber within the casing form the hot air flues up from said bottom heating chamber on each side of and directly next to the sides of the brooding chamber and discharging into the upper heating chamber *k*, directly above the brooding chamber and having its lower floor formed by the tin top of the brooding chamber. This upper heating chamber is provided with the upwardly extending discharge pipe *l*, extending up from a point near the bottom of said upper heating chamber. Thus the full heat of the surrounding hot air is utilized in heating the brooding chamber. All waste of heat is prevented so far as possible by a filling of saw dust or like suitable heat retaining or non-conducting material in the casing at the outer sides of the partitions *j, j*, and on the top of the upper heating chamber. The escape pipe having its lower end near the bottom of the upper heating chamber prevents a too rapid escape of the hot air and forces the same to travel over a more extended path before leaving the device.

The simplicity and many advantages of this brooder, and its cheapness and ease of operation are obvious.

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

The brooder consisting of the casing, the brooding chamber within the same, upper and

lower heating chambers respectively at the top and bottom of said brooding chamber within the casing, partitions forming vertical flues connecting said heating chambers, and
5 a packing in the casing at the outer sides of said flues and said upper heating chamber, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

NIXON HOLLOWAY.

Witnesses:

DANIEL GIFT,
FREDERICK A. FANNING.