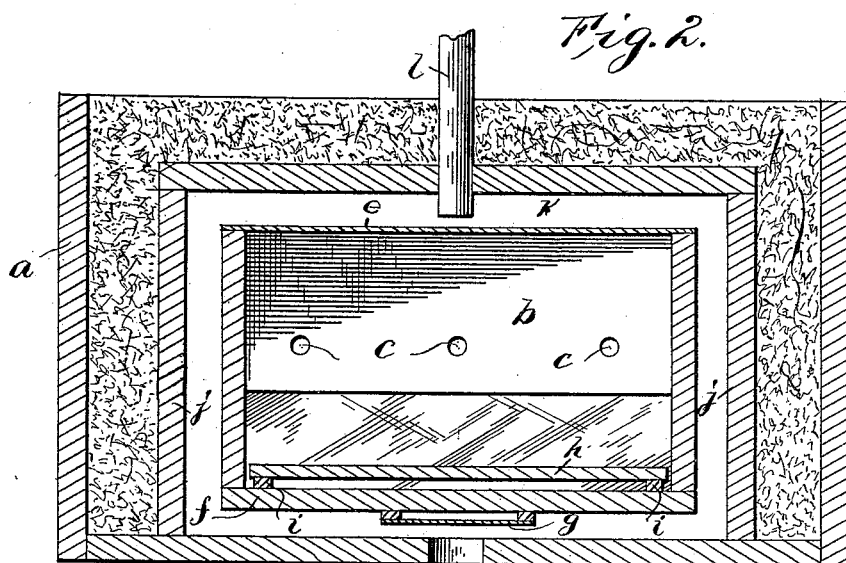
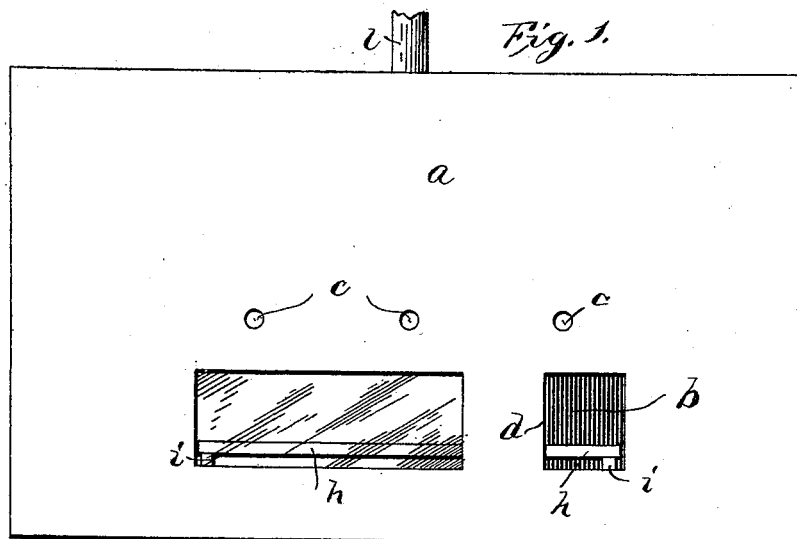


(No Model.)

N. HOLLOWAY.
CHICKEN BROODER.

No. 493,586.

Patented Mar. 14, 1893.



WITNESSES:

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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
Lincolnvill, 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 draw-
ings, and to the letters of reference marked
thereon, which form part of this specification.

This invention relates to certain improve-
ments 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 fea-
tures 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*, in-
dicates the outer casing or wall of the brooder.

b, indicates the brooding chamber within
said casing having the windows or doors pre-
ferably 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 un-
der 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 open-
ing in the bottom of the casing which forms
the hot air inlet and hence prevents the floor
being too highly heated. A false or supple-
mental floor *h*, is also provided for the brood-
ing 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 prevent-
ing 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 af-
ter the heat becomes more intense the false
floor can be reversed so as to form the inter-
vening air space and thereby reduce the tem-
perature and evenly regulate the same. This
false bottom can be removed whenever de-
sired 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 cham-
ber 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 cham-
ber. This upper heating chamber is pro-
vided 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 uti-
lized 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 pre-
vents a too rapid escape of the hot air and
forces the same to travel over a more extend-
ed 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.