

No. 776,346.

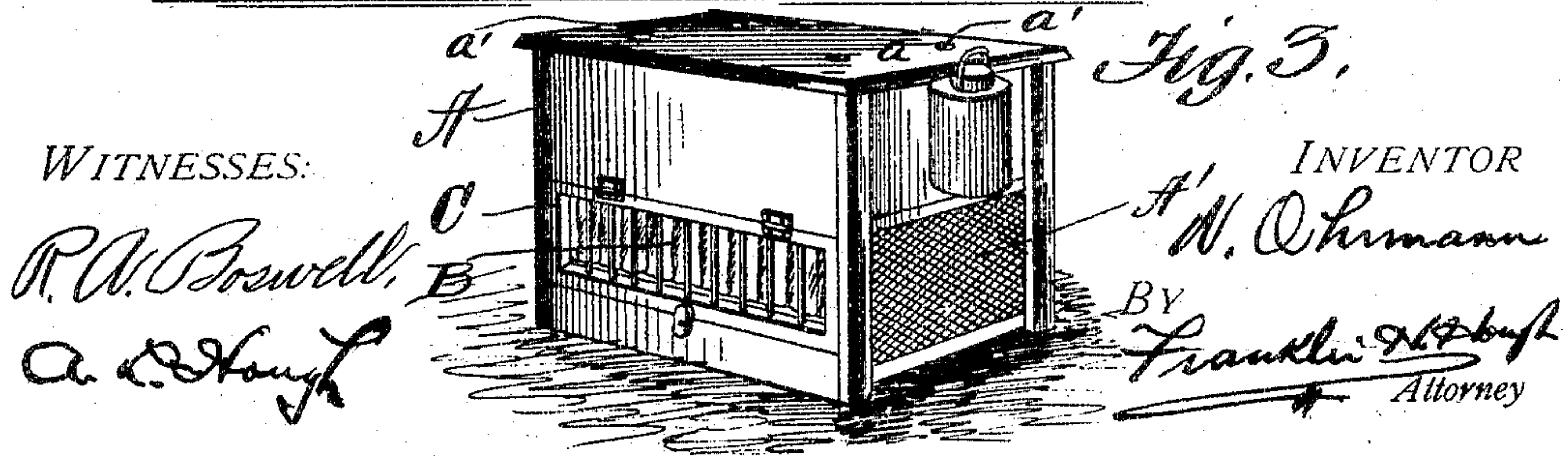
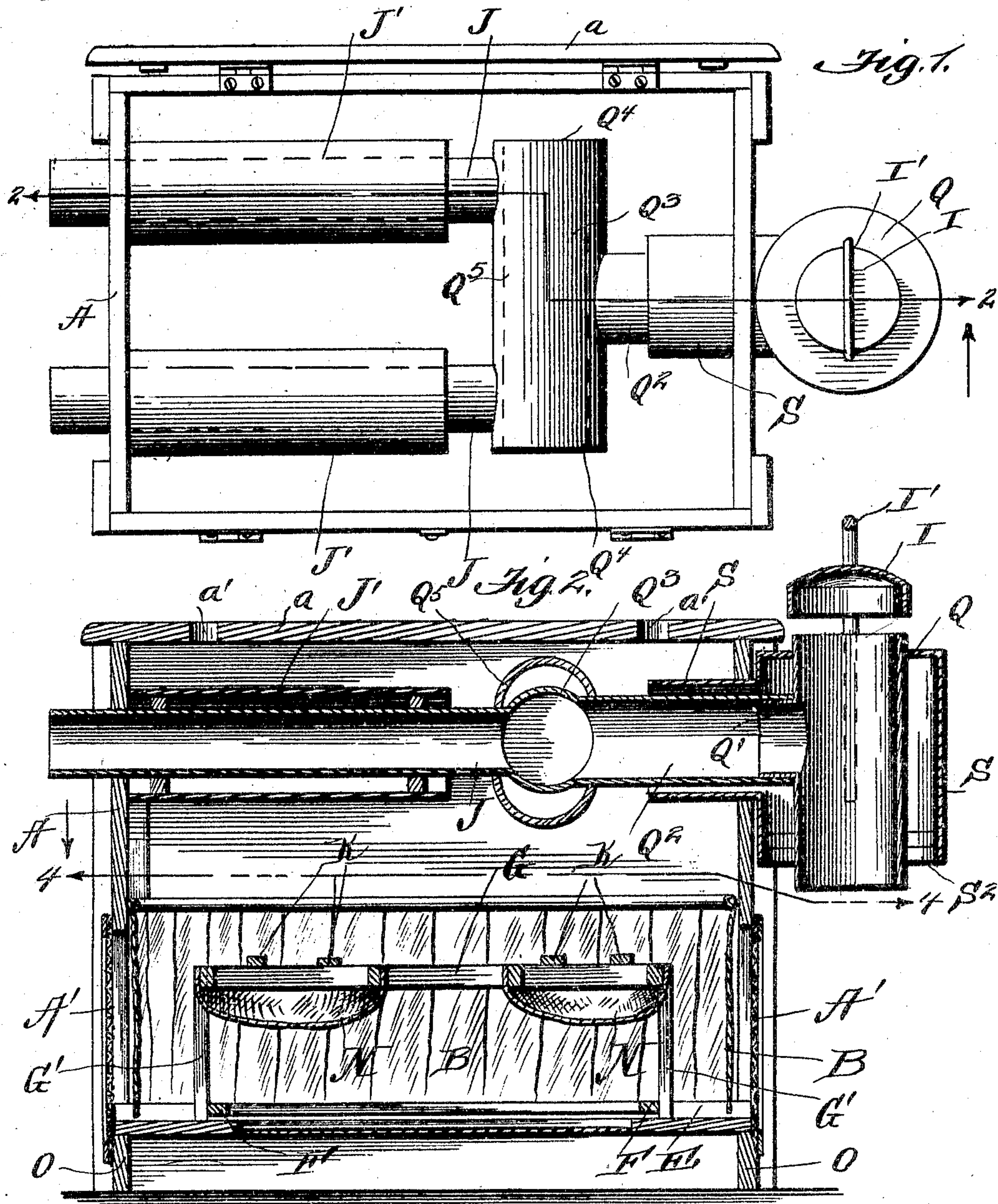
PATENTED NOV. 29, 1904.

W. OHRMANN.
BROODER.

APPLICATION FILED JUNE 22, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

R. A. Boswell,
A. C. Hough

INVENTOR

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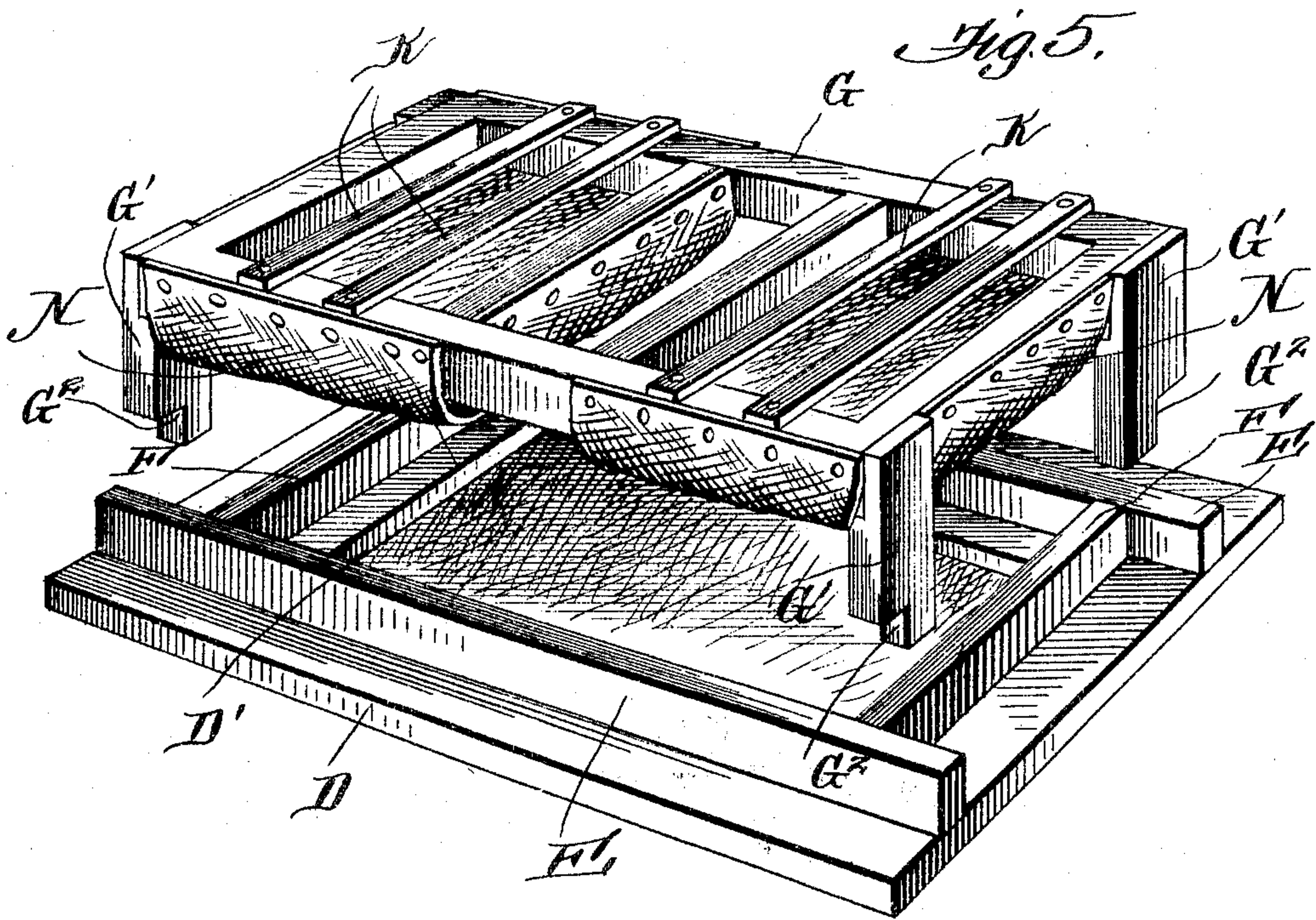
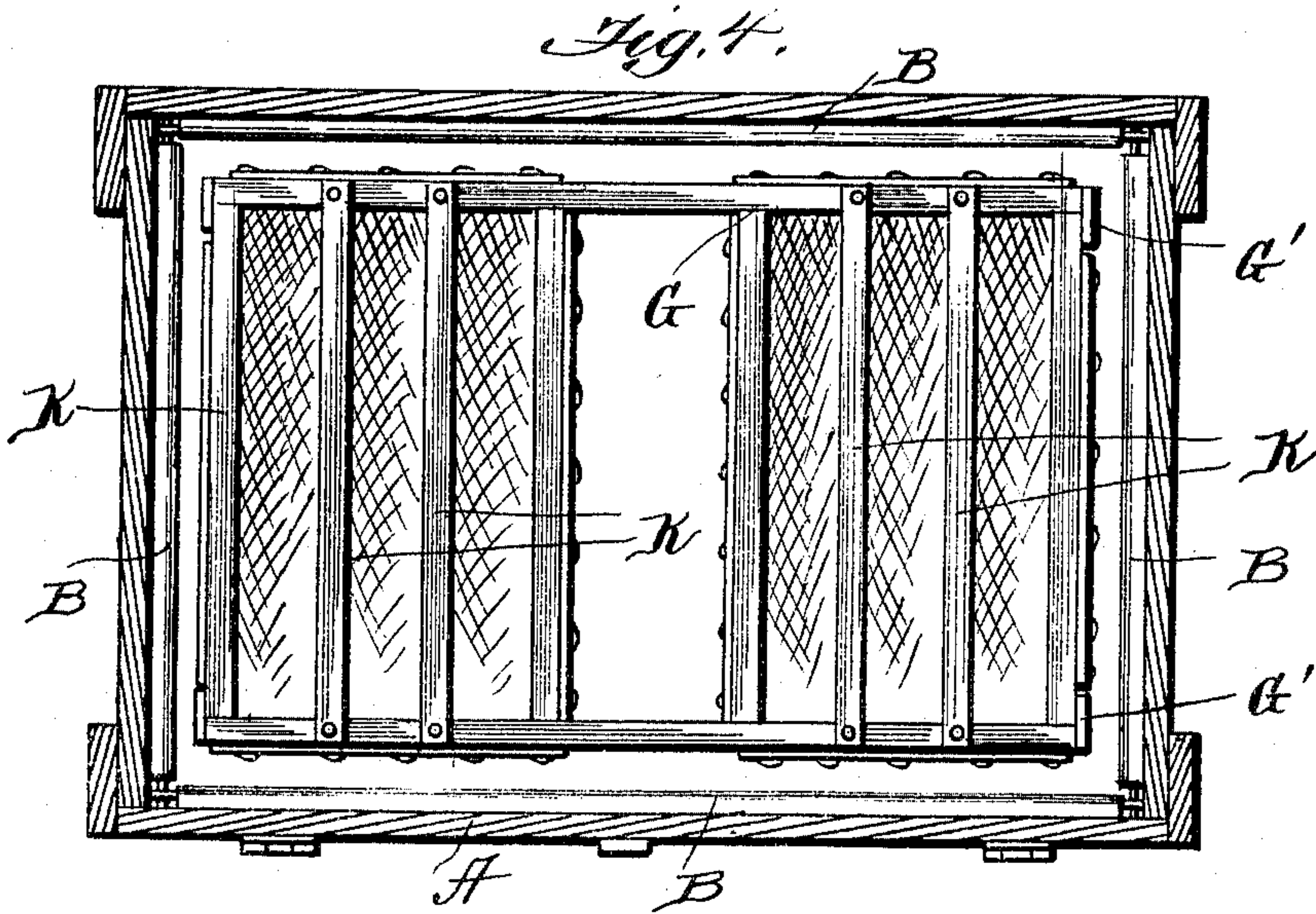
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UNITED STATES PATENT OFFICE.

WILLIAM OHRMANN, OF SCOTIA, NEW YORK.

BROODER.

SPECIFICATION forming part of Letters Patent No. 776,346, dated November 29, 1904.

Application filed June 22, 1904. Serial No. 213,703. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM OHRMANN, a citizen of the United States, residing at Scotia, in the county of Schenectady and State of New York, have invented certain new and useful Improvements in Brooders; and I 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in chicken-brooders; and the object of the invention is to produce a simple and efficient means whereby the brooder may be thoroughly ventilated and heat evenly distributed to the casing and in the provision of means whereby parts of the apparatus may be easily removed for the purpose of cleansing, &c.

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

My invention is illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings—

Figure 1 is a top plan view of my improved brooder. Fig. 2 is a vertical sectional view taken on line 2 2 of Fig. 1. Fig. 3 is a perspective view of the brooder on a small scale. Fig. 4 is a sectional view horizontally through the brooder, and Fig. 5 is a detail perspective of the removable brooder composed of two parts.

Reference now being had to the details of the drawings by letter, A designates the casing of my improved brooder-chamber, made of any suitable material, preferably wood, and provided with screen-covered openings A' in the ends thereof. (Shown in Fig. 2 of the drawings.) Said casing is preferably without interior partitions and has a fabric portière B fastened to the inner faces of the sides of the casing and adapted to hang down over the screen-openings and also over the

opening controlled by the hinged door C. Said door C is preferably made of open-work in order to allow air to freely circulate through the casing, and D designates a skeleton frame with open center, which is covered with a fabric D and forms a bottom or floor of the brooder-chamber, on which the chicks are assembled. Rising from said skeleton frame are the longitudinal strips E, extending the entire length of the frame, and connecting said longitudinal strips are the cross-pieces F, forming a raised frame or margin about the edge of said fabric.

A rack G is provided which has lugs G', recessed at G², which recessed portions are adapted to rest upon the ends of the strips E which project beyond the cross-pieces F, while the extreme lower ends of said lugs G' are adapted to rest upon the upper surface of said skeleton frame D, as shown clearly in Fig. 5 of the drawings. When the rack is positioned as described, it will be prevented from longitudinal movement by reason of said lugs bearing against the outer faces of the cross-pieces F. The top of said rack has the slats K spaced apart, and suspended from the opposite longitudinal edges of said rack are pieces of fabric (designated by letter N) and which are made, preferably, of a soft woolen material and extend down toward the skeleton frame forming the bottom of the brooding-chamber and provided for the purpose of affording a soft surface for contact with the backs or heads of the chickens below and at the same time affording means to shield the chickens from the heat from the heating apparatus, positioned in the upper part of the casing. Said skeleton frame forming the bottom of the brooding-chamber, with the rack which it carries, is adapted to slide into the casing and rest upon cleats O, after which the door of the casing may be closed and locked by any suitable means.

The heating apparatus which I have illustrated comprises a shell Q, positioned outside the casing, and has a branching pipe Q' leading therefrom, over which the tubular shell Q² is adapted to telescope, as shown clearly in the sectional view Fig. 2. The inner end of said shell Q² connects at right angles to a

drum Q^3 , which has open ends Q^4 , as shown in Fig. 1 of the drawings, and said drum has positioned thereover the curved shells Q^5 , spaced apart from said drum and provided for the purpose of heating the air as it passes through the space intermediate the same and said shell.

Leading from the drum Q^3 are two cylindrical shells J , which pass through the opposite ends of the casing, and each is surrounded by a drum J' , through which air is caused to circulate and become heated in its passage between said drums and shells, as will be readily understood.

Referring to Figs. 1 and 2 of the drawings, a shell S will be observed with a space intervening between the same and the shell Q^2 , and said shell S connects with the shell Q , in which a lamp or other heater is adapted to be positioned, and the portion of said shell S which surrounds the shell Q has an open end S^2 , through which fresh air is adapted to pass to supply the brooder-chamber and in its passage within is adapted to be heated by contact with the adjacent heated shell.

I designates a cap having a bail-shaped member I' fastened thereto, the arms of which are adapted to enter apertures in the shell Q , and said cap is provided for the purpose of closing over the top of the shell Q in order to regulate the exit end of said shell, and through which exit end the products of combustion from the lamp are adapted to pass. Said cap may be raised and lowered and held by the frictional contact with the bail-shaped wire in different positions.

The hinged cover a of the brooder is provided with ventilation-apertures a' , as shown clearly in Figs. 2 and 3 of the drawings, and any suitable locking means may be provided for holding the lid closed.

While I have shown a particular form of heating apparatus to be utilized in connection with my brooder, it will be understood, that instead of a lamp any heating system, such as hot water or steam, may be employed, if desired, which will only require slight alterations in the construction of the apparatus to adapt the same for various heating systems.

It will also be understood that detailed alterations in the construction of the brooder may be made, if desired, without in any way departing from the spirit of the invention.

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

1. A chicken-brooder comprising a casing with screen-covered openings therein, a brooder-chamber made up of two parts comprising a skeleton frame with a fabric over the open portion thereof, a rack having lugs supported by said frame and depending sheets of fabric fastened to said rack, and suitable heating mechanism, as set forth.

2. A chicken-brooder comprising a casing, a ventilated lid therefor, a brooding-compartment comprising a skeleton frame having a fabric covering the opening therein and adapted to be removably held within the casing, a rack having lugs resting upon said frame and means for holding said lugs from lateral or longitudinal movement upon the frame, sheets of fabric fastened at their ends to said rack and depending over said fabric covering of the skeleton frame, and heating-pipes positioned in the upper portion of the casing, as set forth.

3. A chicken-brooder comprising a casing, having screen-covered openings and a hinged door, a skeleton frame having a fabric floor and adapted to be removably held within said casing, a rack having lugs, the lower ends of which are recessed, longitudinal strips rising from said floor of the brooding-chamber upon which said recessed portions of the lugs are adapted to rest, cross-pieces intermediate said strips adapted to hold said rack from longitudinal movement, sheets of fabric secured to said rack and depending therefrom over the fabric bottom of said skeleton frame, and heating mechanism positioned in the top of said casing, as set forth.

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

WILLIAM OHRMANN.

Witnesses:

A. T. BLESSING,

B. A. MILLER.