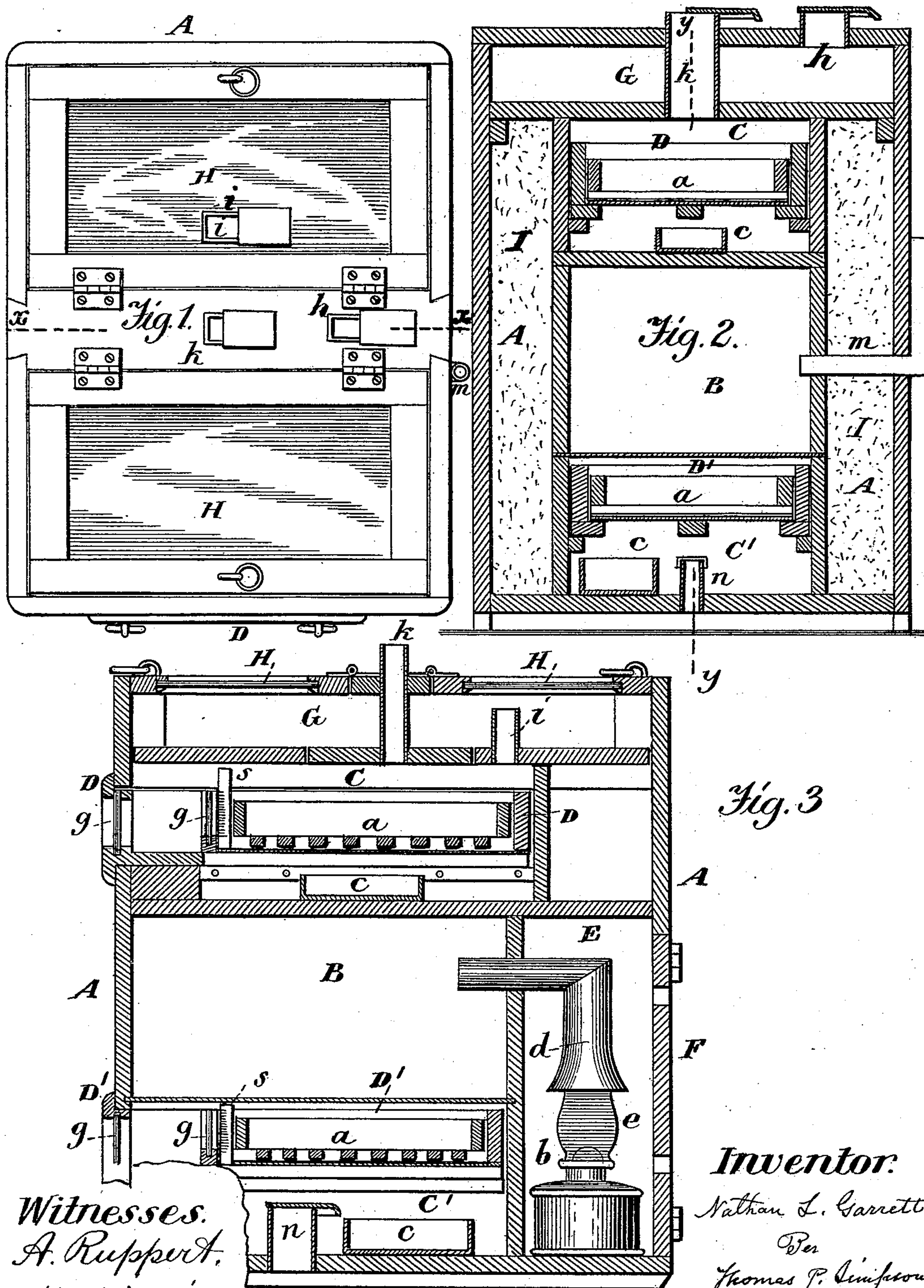


(No Model.)

N. L. GARRETT.
INCUBATOR.

No. 450,010.

Patented Apr. 7, 1891.



Witnesses.
A. Ruppert.
H. A. Daniels

Inventor:

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Per
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Atty

UNITED STATES PATENT OFFICE.

NATHAN L. GARRETT, OF REESE'S MILL, INDIANA.

INCUBATOR.

SPECIFICATION forming part of Letters Patent No. 450,010, dated April 7, 1891.

Application filed August 16, 1890. Serial No. 362,141. (No model.)

To all whom it may concern:

Be it known that I, NATHAN L. GARRETT, a citizen of the United States, residing at Reese's Mill, in the county of Boone, and State of Indiana, have invented certain new and useful Improvements in Combined Incubators and 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.

This invention relates to incubators and brooders; and it consists in an improved construction of a combined incubator and brooder, as hereinafter set forth and claimed.

In the accompanying drawings, Figure 1 is a top view of my improved incubator and brooder. Fig. 2 is a section taken on line *xx* of Fig. 1. Fig. 3 is a horizontal section taken on line *yy* of Fig. 2.

A designates the main casing, which is divided into several chambers or compartments. A central chamber B, which is a heating-chamber, extends from front to rear and from side to side, as shown. Above the chamber B is an incubating or egg chamber C, in which is placed a sliding drawer D to receive the eggs. Another egg-chamber C' is located just below the heating-chamber and contains a drawer D'. The egg-drawers D D' may be drawn out at the front and returned, and each of said drawers is provided with a removable slatted bottom *a*, on which the eggs are placed. A bottom of cloth or any suitable fabric is secured to the drawer under the slats to prevent the young chickens falling through. In the front wall of each of the drawers plates of glass *g* are set, through which a thermometer, which is provided for indicating the temperature, may be seen.

In each egg-chamber and under each drawer is placed a vessel *c* to contain water for the purpose of moistening the air in said chamber.

The top of the heating-chamber B, which separates said chamber from the chamber C, is constructed of wood, and the floor of the chamber B, separating the latter from the chamber C', is of sheet-zinc, this construction being for the purpose of equalizing the heat in the two egg-chambers.

At the rear of the casing is a chamber E, which is provided with a door F, this cham-

ber being intended for a lamp *b* or other heating device to be placed therein. A pipe *d* is fixed in position to extend upward from the lamp and turn into the heating-chamber, as seen in Fig. 3. The lamp is placed with its chimney *e* extending somewhat into the pipe *d*, as shown.

In the top part of the structure and extending over the chamber C is a chamber G, which is intended for brooding the chickens as they are hatched. The floor of the chamber G, which separates it from egg-chamber C, is made partly removable, and the top of the brooding-chamber is provided with glass doors H, through which the contents of the chamber may be viewed.

A ventilator *h* is provided for the brooding-chamber, and a ventilator *i* forms an air-passage between said chamber and the chamber C, which also has communication with the exterior air by a ventilator *k*, which extends up through the chamber G. The heating-chamber B also has communication with the exterior air by a pipe *m*, which extends through the casing at one side. The lower chamber C' is also provided with a ventilator *n*, extending through the bottom of the casing.

The main walls of the casing are made hollow and filled with sawdust or other suitable material, as seen at I.

As the chickens are hatched they are taken from the drawers of the incubating-chambers by hand and placed in the brooding-chamber G, where they are kept, fed, and watered until somewhat grown, when they are removed to other inclosures. A small thermometer *s* is placed in each drawer in position to be seen through the glass in the front of the drawer, and another may be placed on the eggs therein.

I claim—

An incubator having the heater B, made with wooden top, metallic bottom, and an egg-chamber adjacent to each, the heat being thus distributed so as to be about or nearly equal in each egg-chamber, as set forth.

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

NATHAN L. GARRETT.

Witnesses:

I. M. KELSEY,
A. H. HANN.