

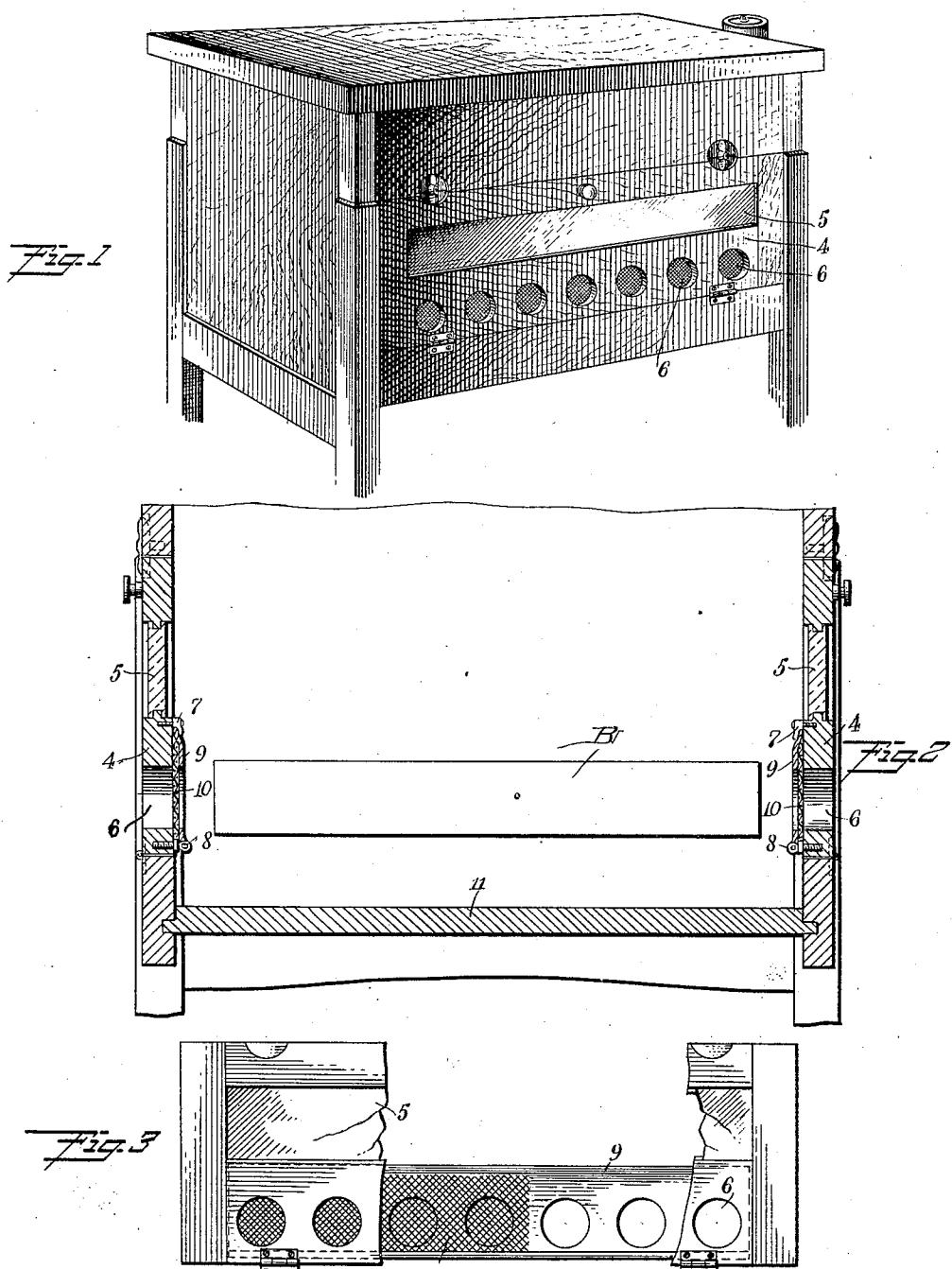
G. H. LEE.

INCUBATOR.

APPLICATION FILED JULY 26, 1910.

999,571.

Patented Aug. 1, 1911.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE HOWARD LEE, OF OMAHA, NEBRASKA.

## INCUBATOR.

999,571.

Specification of Letters Patent. Patented Aug. 1, 1911.

Application filed July 26, 1910. Serial No. 573,857.

To all whom it may concern:

Be it known that I, GEORGE H. LEE, a citizen of the United States, and a resident of Omaha, in the county of Douglas and State 5 of Nebraska, have invented a new and Improved Incubator, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to provide 10 means for ventilating an incubator wherein the ventilation is diffused, preventing the formation of drafts and avoiding the necessity of forcing air through the machine; and to provide a simple, efficient and 15 durable construction whereby the ventilation may be varied.

One embodiment of the present invention is disclosed in the structure illustrated in the accompanying drawings, in which like characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a perspective view of an incubating machine constructed and arranged in accordance with the present invention; 25 Fig. 2 is a vertical cross section in fragmentary form, of an incubator constructed and arranged in accordance with the present invention; and Fig. 3 is a fragmentary view, being partly cut away to show the relation 30 of the structural elements of the door for the incubator.

When adapting the incubator to the system embodying the present invention, the lower rail 4 of the door is increased in 35 width, and the glass panel 5 is proportionately decreased in width. The rail 4 is provided in longitudinal arrangement with a plurality of circular perforations 6, 6. Secured to the inside of the rail 4 by means of 40 latch buttons 7, 7 and hinges 8, 8 is a sheet metal plate 9, having perforations disposed therein to coincide with the perforations 6, 6 formed in the rail 4. The latch buttons 7, 7 retain the plate 9 in raised position.

Interposed between the plates 9 and the rails 45 is a screen 10. The screen 10 is constructed of any suitable material, that shown in the accompanying drawings being a fine mesh wire gauze. It will be understood, 50 however, that muslin or bolting cloth, or any suitable material may be substituted, having coarser or finer mesh, as the desire be to increase or decrease the admission of air into the inner chamber of the incubator. The

strip of screen 10 is laid between the plate 9 55 and rail 4, it not being necessary to secure the same in position other than by the clamping of the plate 9. If other forms of securement should be desired this may be effected in any of the usual well known 60 ways.

The doors of the incubator are secured by the usual locking devices. If the incubator is provided with double opposite doors, as shown in Fig. 2 of the drawings, both of 65 said doors are provided with the ventilating devices. If, however, the incubator is provided with only one such door, the opposite wall, or back thereof, may be provided with the perforations 6, plate 9 and interposed 70 screen 10.

The disposition of the perforations 6 is at approximately the level of the eggs in the tray B of the incubator. In this manner the foul or heavy air is quickly removed 75 from the lower portion of the incubator, without diminishing or disturbing the heated air in the upper portion of the incubating chamber. In this manner a healthy and free supply of air is constantly maintained 80 in the chamber without producing therein chilling drafts. By this construction, provision is made whereby the temperature of the air above the egg tray in the incubator chamber is maintained and the humidity of 85 the said air is not reduced.

While I have herein described the installation of the ventilating perforations, and covering material therefor, as applied to the door of the incubator, it will be understood 90 that the invention is not confined to placing the perforations in these structural elements, as the same may be placed in the side walls of the incubator. I prefer, however, to place the perforations and covering therefor in 95 the door, as by this arrangement the change in the screens 10 may be more readily effected.

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

An incubator, comprising a structural wall having a plurality of perforations formed therein at near the level of the egg tray of said incubator, a clamping plate having a corresponding series of perforations, and hinged upon said structural wall to aline the perforations thereof with the perfora-

tions in said structural wall; locking means for holding the said plate in closed position upon said structural wall; and a strip of woven material adapted to be held by said 5 plate across the perforations in said wall and said plate.

In testimony whereof I have signed this

specification in the presence of two subscribing witnesses.

GEORGE HOWARD LEE.

Witnesses:

HARRY ROWLEY,  
V. M. COOPER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."