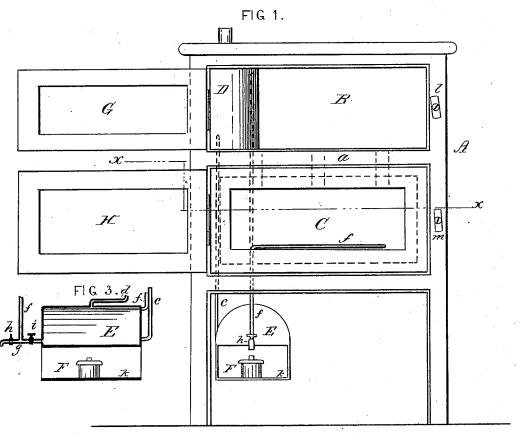
C. C. WESTON.

No. 161,722.

Patented April 6, 1875.



TINESSES.

May E. Oliphans

Leorge J. Buckley

FIG. 2.

INVENTOR

Chauncey 6. Westone.

Jon Charles 16. Savel.

THE GRAPHIC CO.PHOTO-LITH.39 & 41 PARK PLACE, N.Y.

C. C. WESTON. Incubator.

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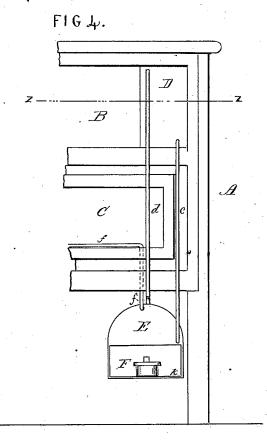
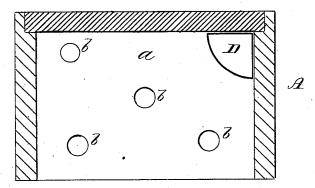


FIG 5



WITNESSES Nas E. Oliphans George E. Guckley INVENTOR Chauncey C. Weston per Charles H. Tavler, "Attorney.

United States Patent Office.

CHAUNCEY C. WESTON, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN INCUBATORS.

Specification forming part of Letters Patent No. 161,722, dated April 6, 1875; application filed March 3, 1875.

To all whom it may concern:

Be it known that I, CHAUNCEY C. WESTON, of Washington, in the county of Washington, District of Columbia, have invented a new and valuable Improvement in Incubators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a front elevation of my invention. Fig. 2 is a sectional view of Fig. 1, taken on line x x. Fig. 3 is a detached view of the furnace or heating apparatus and the boiler. Fig. 4 is a view of the back part of the apparatus, showing the pipes connecting the boiler with the reservoir; and Fig. 5 a section of Fig. 4 on

This invention has relation to that class of devices known as incubators, for hatching and brooding birds from eggs by artificial heat, and consists in a coil of heating-pipe, through which hot water circulates from a boiler, the same being fed from a reservoir arranged above the hatching-room. My invention also consists, in connection with such heating-pipes and boiler, of a means whereby the temperature of the hatching-room can be regulated by controlling the circulation of water through the pipes. My invention further consists of a safety-pipe, through which the water is allowed to pass from the boiler back into the reservoir.

In the drawings, A is designed to represent the frame of my apparatus, divided by the partition a into compartments B C, the lower compartment C being the hatching-room, where the eggs are placed to be hatched, and the upper compartment B the brooding-room, where the young birds are placed for a short time after being hatched; the partition a having openings b, as seen in Fig. 5, through which the warm air can pass from the compartment C into the compartment B. Situated above the compartment or hatching room C, and in one corner of the compartment B, is a water-reservoir, D, the same communicating with the boiler E through pipes c d, the pipe c being the supply-pipe, through which the | of escape back into the cold-water reservoir

boiler E is fed, and communicating therewith at the bottom of said boiler and also at the the bottom of the reservoir D. The pipe d, which I term a safety-pipe, connects with the boiler at the top, midway from its ends, and at the top of the water-reservoir D. The pipe f, through which the water passes after being heated, communicates with the boiler at its top, as shown in Figs. 3 and 4, from whence it passes into the compartment or hatchingroom C, and, coiled around, as shown in Fig. 2, it then passes through the lower partitions of the hatching-room and connects with the short pipe g between the faucets h i. The boiler E is provided with a shelf, k, for supporting the lamp F or other suitable heating apparatus. The hatching and brooding rooms are provided with glass doors G H, which are kept closed, when the apparatus is in operation, by small buttons lm. The door H has a double glass face, as shown in Fig. 2, also the hatching-room is formed with double walls n o, to prevent the outer atmosphere from effecting the temperature therein.

The operation of my apparatus is as follows: The faucet i being closed and faucet h opened for the escape of air as the boiler is filling, the water is then introduced through a suitable opening in the top of the reservoir D. After the water commences to escape from the pipe f out through the faucet h it is an indication that the boiler E is full and the apparatus ready for use. The faucet h is now closed and faucet i opened. (The eggs are placed upon cotton or other soft material in the compartment or hatching-room C.) The lamp F is now lighted, or such other heating device as may be employed. As the water becomes heated in the boiler D an intestine motion takes place, which causes the hotter particles to pass up through the pipe f, around the coils of said pipe, where it becomes cooled, and returns to the boiler through the short tube g.

To regulate the temperature of the hatching-room C, it is only necessary to partially cut off the flow of water as it passes back into the boiler E, which is accomplished by simply turning the faucet i.

If at any time there should become too great a pressure on the boiler, the water has means D through a safety-pipe, d, thereby preventing the possibility of any accident from the bursting of the boiler.

Having now fully described the construcand operation of my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an air-incubator, the reservoir D, arranged above the hatching-room C, and communicating with the boiler E through pipe c, as specified.

2. In an air-incubator, the combination, with the boiler E and reservoir D, of the safety-pipe d, substantially as and for the purpose set forth.

3. In an air-incubator, the combination, with the boiler E and heating-pipes f, of the means,

substantially as herein described, whereby the temperature of the hatching-room can be regulated by controlling the circulation of the water through the heating-pipes, as set forth.

4. The reservoir D, boiler E, lamp F, and pipes c d f, and the pipe g, provided with faucets h i, the whole combined and arranged to operate as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHAUNCEY C. WESTON.

Witnesses:

J. GALES MOORE,

GEO. H. B. WHITE.