

No. 881,504.

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W. E. TREDWAY.
INCUBATOR.

APPLICATION FILED AUG. 8, 1907.

Fig. 1.

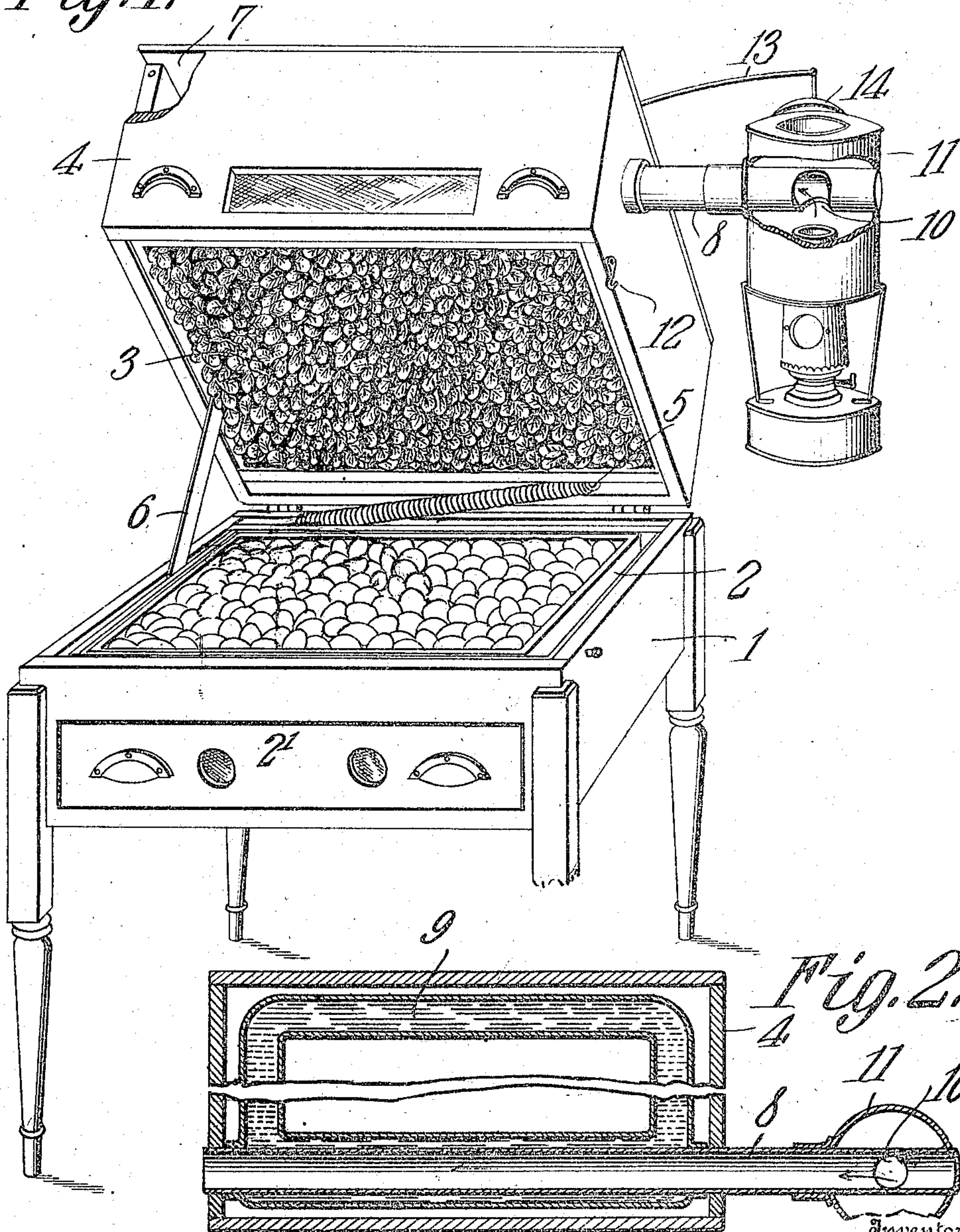


Fig. 2.

Witnesses

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WILLIAM E. TREDWAY, OF NARDIN, OKLAHOMA.

INCUBATOR.

No. 881,504.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed August 8, 1907. Serial No. 387,715.

To all whom it may concern:

Be it known that I, WILLIAM E. TREDWAY, a citizen of the United States, residing at Nardin, in the county of Kay and State of Oklahoma, have invented a new and useful Incubator, of which the following is a specification.

This invention relates to incubators and more particularly to means for heating the interior thereof.

The object of the invention is to provide means whereby ordinary chicken feathers can be used as a heating medium, the same being so positioned as to rest upon the eggs when the incubator is closed.

Another object is to provide a heater connected to the movable top of the incubator and normally maintained by gravity in an upright position when the incubator is either open or closed.

A still further object is to provide an incubator having means whereby the same can be conveniently opened.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts, which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a perspective view of the incubator open. Fig. 2 is a section through the pipe connection between the heater and closure.

Referring to the figures by characters of reference, 1 designates the body of the incubator the same having a tray 2 therein for the reception of eggs and a drawer 2' located beneath the tray and designed to receive the chicks as they are hatched. The tray is located close to the top of the body 1 and the eggs therein are designed to be contacted by a mass of feathers 3 secured in any suitable manner within the bottom of a box 4 constituting the closure or the lid of the incubator. This lid is connected to the body by means of hinges or in any other suitable manner and a spring 5 is preferably provided so that when the lid is unlocked the same will automatically swing into raised position as shown in the drawing, this movement being limited by a strap 6 such as shown and which may be of any desired construction and arrangement and is similar to corresponding straps used in connection with trunk lids and the like. A compart-

ment 7 is formed within the lid above the feathers 3 and extending through this compartment is a pipe 8 extending through one member of a water pipe 9 which is disposed close to the four walls of the compartment and designed to be filled with water in any suitable manner. Pipe 8 extends beyond both sides of the cover 4 one of said projecting ends constituting an outlet, while the other end is closed and has an inlet opening 10. This portion of pipe 8 extends through a heater 11 which may be of any desired form and is supported by the pipe 8 with the opening 10 in position to receive the hot gases generated within the heater. The heater is designed to swing or oscillate on pipe 8 which thus constitutes a swiveled tubular connection between the heater and the incubator lid. A suitable fastening device such as a hook 12 is employed for securing the lid 4 in closed position.

In using the device herein described the eggs are placed in tray 2 and the lid lowered and fastened. The feathers are thus brought into contact with the eggs. The heat generated within the heater 11 is conveyed through the pipe 8 to the pipe 9 where it heats the water. The air in compartment 7 is thus heated and comes into contact with the feathers and the eggs are maintained at the proper temperature. It is of course to be understood that a suitable thermostatic controller such as indicated at 13 is to be used in connection with the incubator. In the drawing cap 14 of the controller is shown swung backward from the lever but when the incubator is in use the same will of course assume a position directly above the heater. When it is desired to open the incubator the lid is unfastened and the spring 5 will partly overcome the weight of the lid so that the upward movement thereof is greatly facilitated. As the lid is swung upward the heater 11 turns upon pipe 8 and is maintained vertical. It will be seen that the device is very simple in construction and by providing feathers for the purpose of distributing heat over the eggs the device is rendered very efficient.

What is claimed is:

1. In an incubator the combination with an egg holding body; of a lid movably connected to the body, feathers massed within the lid and disposed to contact with eggs in the body, and a heater pivotally connected to and suspended from the lid.

2. In an incubator the combination with an egg holding body; of a spring actuated lid hingedly connected to the body, feathers massed within the lid and disposed to contact with the eggs within the body, a heater, and a swiveled tubular connection between the heater and lid.

3. In an incubator the combination with a body for holding eggs; of a spring pressed lid hinged upon the body, means for securing the lid upon the body and against the tension of the spring, a soft material massed within the lid and disposed when the lid is closed to contact with eggs within the body, and a heater pivotally connected to and movable with the head.

4. In an incubator the combination with a body for holding eggs; of a lid hingedly connected to the body, feathers massed within the lid, a water container within the lid, a heat conducting tube extending through the container and lid, a heater pivotally mounted upon and supported by the heat conducting tube, said tube being disposed to receive heated air from the heater.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM E. TREDWAY.

Witnesses:

W. H. TREDWAY,
G. H. RHOADES.