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PATENTED MAY 21, 1907.

M. M. JOHNSON.

REGULATOR SUPPORT FOR INCUBATORS.

APPLICATION FILED DEC. 22, 1906.

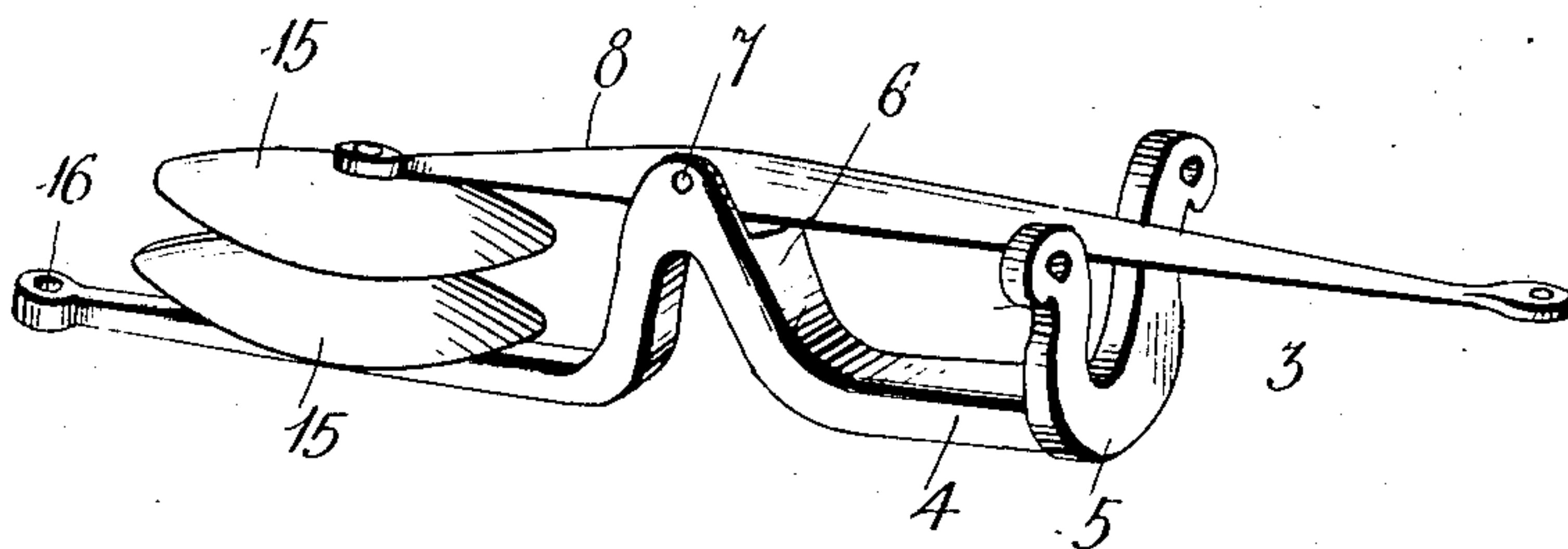
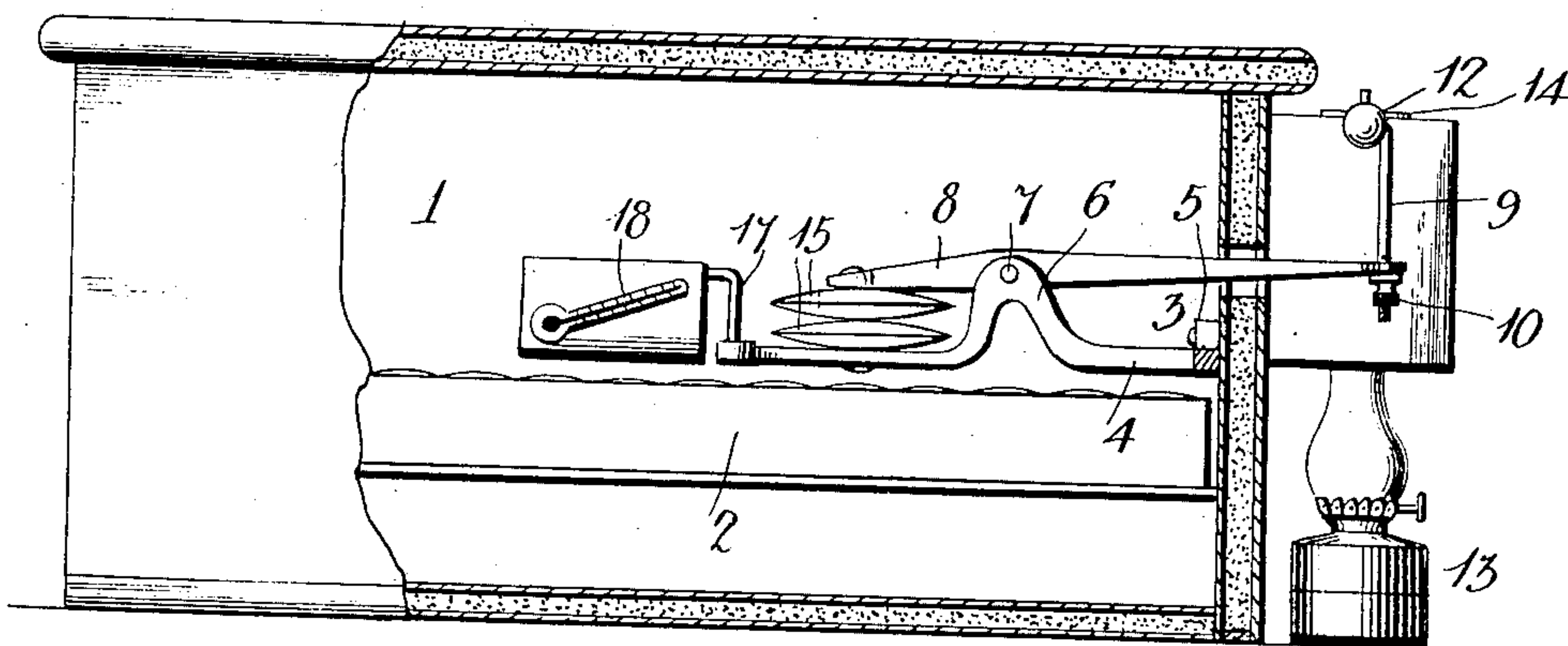


FIG. 2

Witnesses

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## REGULATOR-SUPPORT FOR INCUBATORS.

No. 854,648.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed December 22, 1906. Serial No. 349,119.

*To all whom it may concern:*

Be it known that I, MANANDER MOTT JOHNSON, a citizen of the United States, residing at Clay Center, in the county of Clay and State of Nebraska, have invented certain new and useful Improvements in Regulator-Supports for Incubators; 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.

This invention relates to improvements in supporting devices for incubator regulators.

The object of the invention is to provide a supporting device of this character by means of which the thermostat that regulates the heat supplied to the incubator will be supported in proper position above the eggs, so that the same temperature that affects the eggs will also affect the thermostat and cause the same to operate the regulating mechanism to produce the desired temperature within the incubator.

A further object is to provide means on said supporting device for holding a thermometer in position to be readily observed through the door of the incubator.

With the above and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a vertical sectional view through an incubator, showing the application of the invention thereto; and Fig. 2 is a perspective view of the regulator supporting bracket removed from the incubator.

Referring more particularly to the drawings, 1 denotes the incubator, which may be of any desired form and construction and in which is arranged the usual egg supporting tray 2. On the inner wall of one end of the incubator is adapted to be secured the improved regulator supporting bracket 3, which consists of a horizontally-disposed arm 4. At one end of the arm 4 is formed an attaching plate 5, by means of which the bracket may be screwed or otherwise secured to the end wall of the incubator, as shown.

The arm 4 has formed therein adjacent to its outer end an upwardly-projecting curve or bend 6. On the upper side of said bend 6 is formed a pair of upwardly-projecting apertured bearing lugs or ears 7, between which is pivotally mounted the regulating lever 8.

One end of the lever 8 projects through a suitable opening in the end of the incubator, and is connected to the lower end of the damper rod 9. The outer end of the lever 8 is provided with an aperture, through which the lower end of the rod 9 passes, said end of the rod being threaded to receive a thumb-nut 10, by means of which the connection between the end of the lever and the rod may be adjusted. The upper end of the damper rod 9 is connected to the usual damper lever 12 pivoted on the upper end of the boiler or water heater 13 of the incubator. The opposite end of the damper lever is provided with the usual damper 14, by means of which the heat from the lamp is controlled.

On the arm 4 adjacent to the inner side of the bend 6 therein is mounted a pair of thermostat disks 15, which may be of the usual or any desired construction adapted to be expanded and contracted by the temperature of the incubator. The inner end of the lever 8 is connected to the upper side of the thermostat disks, so that said lever will be operated by the expansion and contraction of the disks and will in turn operate the damper mechanism connected with the heating apparatus and thereby regulate the temperature within the incubator.

The inner end of the arm 4 projects beyond the thermostat and is provided with a vertically-disposed aperture or recess 16, with which is adapted to be engaged the lower end of a right angularly-formed thermometer supporting rod 17. On the right angularly projecting portion of the rod 17 is adapted to be hung a thermometer 18, said thermometer being thus supported in a position to be affected by the same temperature of the egg and the thermostat. The position of the thermometer will be such that it may be readily observed through the glass door of the incubator, so that the temperature of the eggs may be seen at a glance.

By providing a supporting bracket for the regulating mechanism of the incubator and constructing the same as herein shown and described the length of the regulating lever 8 is increased between its pivotal connection and its connection with the damper mechanism, thus providing for an increased movement of the damper lever 12.

The construction of the supporting bracket as herein shown also provides for the supporting and arrangement of the thermostats and thermometer in such position as to be



affected by the same temperature in which the eggs are affected, as hereinbefore described.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

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

1. A regulator support for incubators comprising a horizontally disposed supporting arm having a bearing on its upper side, at a point between its ends, adapted to support the regulating lever, said arm further having a vertical plate at its outer end to attach said bracket to the incubator, and means at the inner end of said arm to support a thermometer at the level of the thermostat disks.

2. A regulator support for incubators comprising a bracket consisting of a horizontally-disposed arm adapted to project inwardly over the egg tray in the incubator and to support the regulator thermostat above said egg tray, apertured bearing lugs formed on

said arms adapted to pivotally support the regulator lever, and a supporting rod adapted to be engaged with the inner end of said arm and to support a thermometer on a level with said thermostat disks, substantially as described.

3. A regulator support for incubators comprising a bracket consisting of an attaching plate adapted to be secured to the inner wall of one end of the incubator, an integrally formed inwardly-projecting supporting arm formed on said plate adapted to support the regulator thermostat in proper position over the egg tray of the incubator and having an opening in its inner end, an upwardly-extending bend formed in said arm, apertured bearing lugs on the upper end of said bend adapted to pivotally-support the regulator lever, a right angularly-formed rod engaged and seated in said opening in the inner end of said arm adjacent to said thermostat disks and to support a thermometer in a horizontal position on a level with said thermostat disks, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MANANDER MOTT JOHNSON.

Witnesses:

LOUIS C. FRYAR,

HERMAN H. HARVEY.