

No. 830,224.

PATENTED SEPT. 4, 1906.

G. L. GUYER & A. C. GAMBLE.
INCUBATOR.

APPLICATION FILED DEC. 30, 1905.

2 SHEETS—SHEET 1.

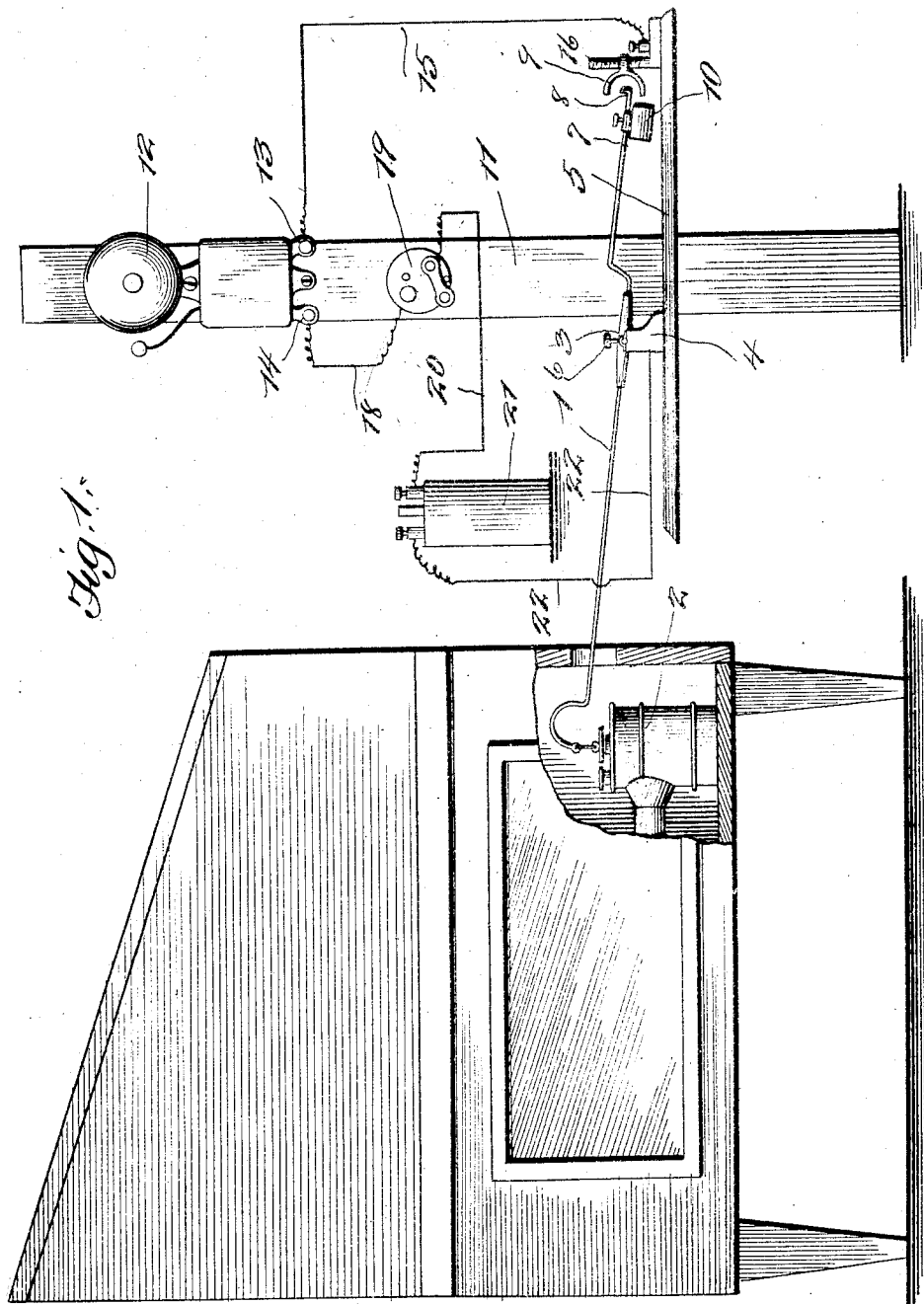


Fig. 1.

Witnesses

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By

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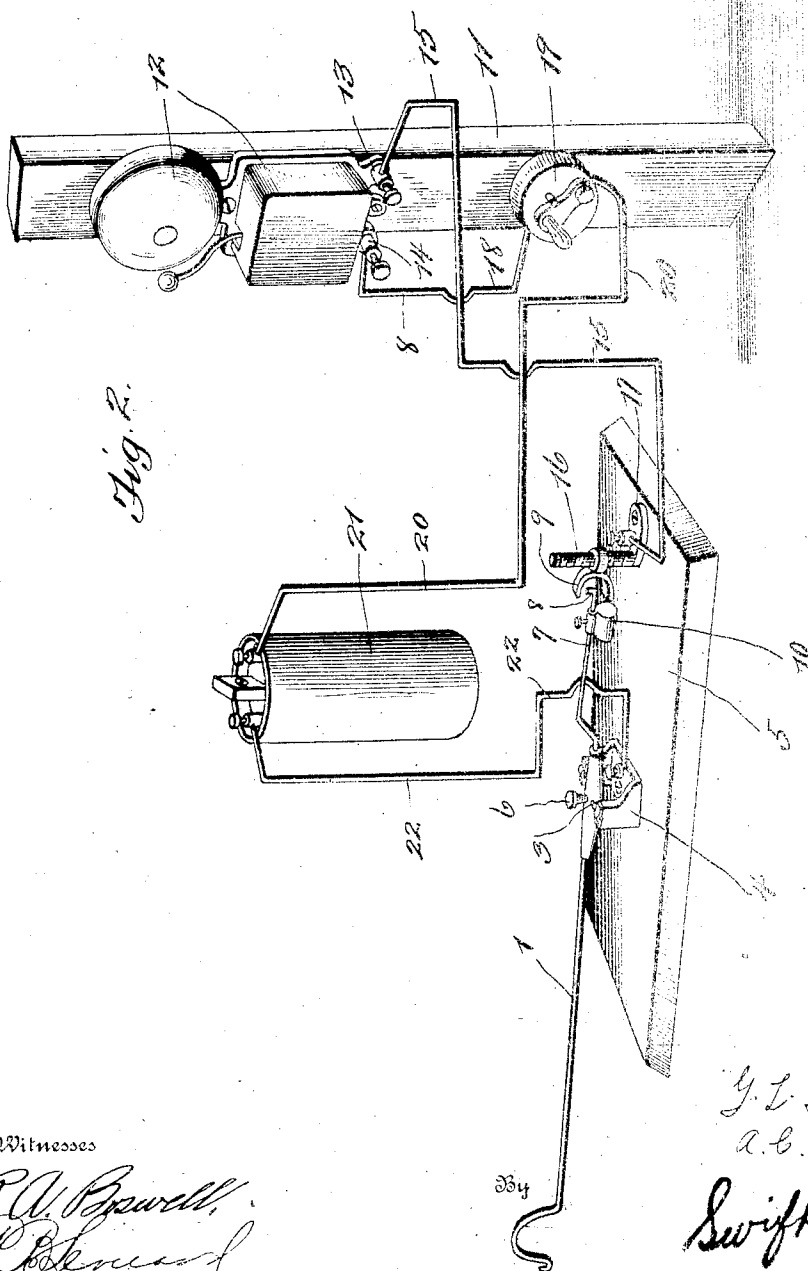
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2 SHEETS—SHEET 2



Witnesses

R. A. B. B. B.
R. B. B. B.

UNITED STATES PATENT OFFICE.

GEORGE L. GUYER AND ARTHUR C. GAMBLE, OF WESSINGTON, SOUTH DAKOTA.

INCUBATOR.

No. 830,224.

Specification of Letters Patent.

Patented Sept. 4, 1906.

Application filed December 30, 1905. Serial No. 293,963.

To all whom it may concern:

Be it known that we, GEORGE L. GUYER and ARTHUR C. GAMBLE, citizens of the United States, residing at Wessington, in the county of Hand and State of South Dakota, have invented new and useful Improvements in Incubators; and we 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 apper-

tains to make and use the same. This invention relates to certain new and useful improvements in incubators, and the most essential object of the invention is to provide an incubator having novel and efficient means attached thereto whereby the heat in the incubator may be prevented from rising or falling below a given temperature and at the same time to provide a device which is simple in construction and inexpensive to manufacture.

More particularly the invention provides an incubator having the above set forth novel means for preventing the heat from rising or falling below a given temperature and comprising an oscillating rod, one end of which is suitably connected with the water-regulator inside of the incubator and the other end of the rod forming electrical contact with a yoke mounted upon a screw-threaded elongated stud when said oscillating rod rocks. The remainder of this device comprises an electric bell, switch, and battery, which are mounted as shown in the accompanying drawings.

This invention comprises further objects and combinations of elements which will be hereinafter more fully described, and shown in the accompanying drawings, and the novel features thereof will be particularly pointed out by the appended claim.

To obtain a full and correct understanding of the details of construction and combinations of features, elements, and advantages, reference is to be had to the hereinafter set forth description in connection with the accompanying drawings, wherein—

Figure 1 is a side elevation of the incubator, partly broken away, showing part of the water-regulator and the relative connection with the alarm device; and Fig. 2 is an enlarged detail perspective view of the alarm device removed or detached from the incubator.

Making renewed reference to the accom-

panying drawings wherein similar reference characters indicate the corresponding parts in the several illustrations by figures, 1 designates an oscillating rod, one end of which is suitably connected with a water-regulator 2 of an ordinary incubator in such wise that as the heat within said incubator rises and falls below a given temperature the oscillating rod will be oscillated up or down, whichever the case may be. The central portion of this oscillating rod is provided with journals 3, which are mounted within bearings of a stirrup 4, which stirrup is properly secured to a base 5, as shown clearly in Figs. 1 and 2 of the drawings. Said oscillating rod is adjustably held by a thumb-screw 6, as shown in Fig. 2 of the drawings. The end 7 of said oscillating rod is bent at 8, said bent portion being adapted to have contact with the arms of a yoke 9 as said oscillating rod is oscillated, as will be readily understood from the drawings in connection with the herein set forth description.

Adjacent to the bent portion 8 of the rod is mounted a weight 10, as shown clearly in the drawings. Mounted upon a standard 11 is an electric bell 12, having binding-posts 13 and 14, the binding-post 13 having electrical connections 15 with a screw-threaded elongated stud 16, upon which the yoke 9 is adjustably held, said screw-threaded elongated stud being properly secured, as at 17, to the base 5, as shown clearly in the drawings. The binding-post 14 is provided with electrical connection 18, which is connected to a switch 19, which is also secured to the standard 11. Said switch 19 is provided with an electrical connection 20, which is connected to a battery 21, said battery having electrical connection 22 with the base of the stirrup 4, as shown clearly in the accompanying drawings.

The manner in which the alarm is given when the heat of the incubator rises or falls below a given temperature will be readily understood from an examination of the drawings in connection with the foregoing detailed description.

From the foregoing it will be plainly observed that by the provision of a device as above described and shown in the accompanying drawings a very efficient alarm device for incubators is provided which is simple in construction and inexpensive to manufacture.

Having thus fully described the invention, what is claimed as new and useful by the protection of Letters Patent is—

5 A device of the character described, comprising an incubator having a water-regulator, a base mounted adjacent to said incubator, a stirrup mounted upon said base, an oscillating rod journaled in said stirrup, one end of said rod being connected to the water-regulator, a screw-threaded elongated stud
10 mounted upon said base, a yoke adjustably carried by said stud and adapted to have

electrical contacts for the other end of said oscillating rod, a bell, a switch, and battery having electrical connections with the stirrup and said screw-threaded elongated stud. 15

In testimony whereof we have hereto affixed our signatures in the presence of two witnesses.

GEORGE L. GUYER.
ARTHUR C. GAMBLE.

Witnesses:

CLINTON CRABTREE,
FRANK E. CRABTREE.