R. A. SKINNER.

REGULATING DAMPER.

APPLICATION FILED DEC. 6, 1918.

1,298,587.

Patented Mar. 25, 1919.

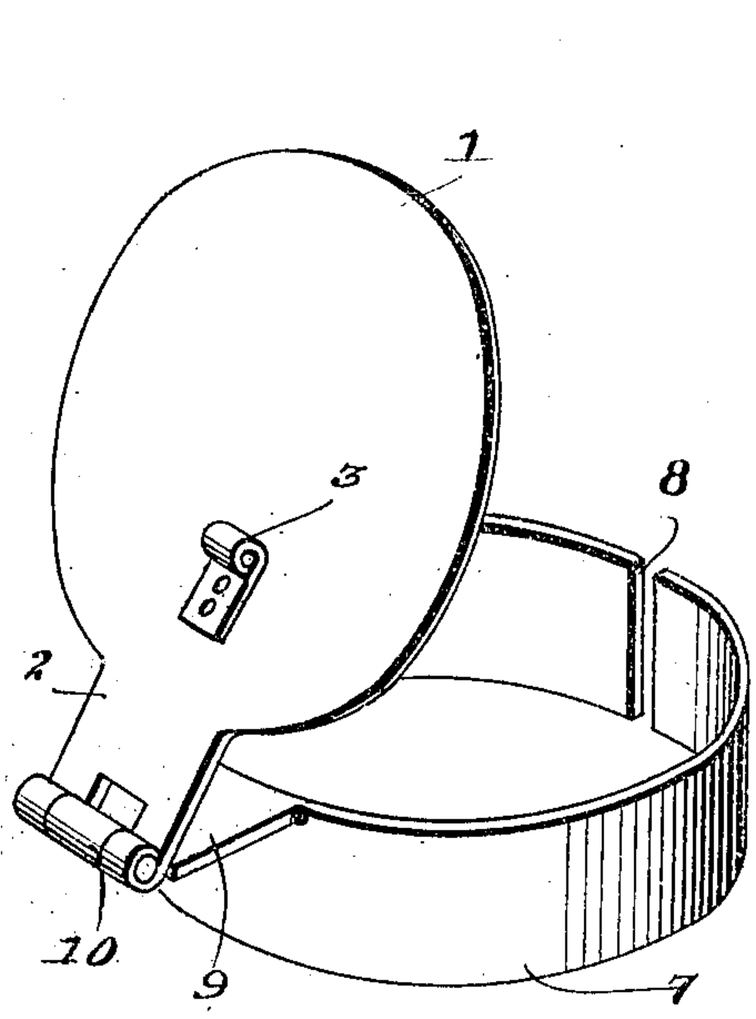


Fig. 1.

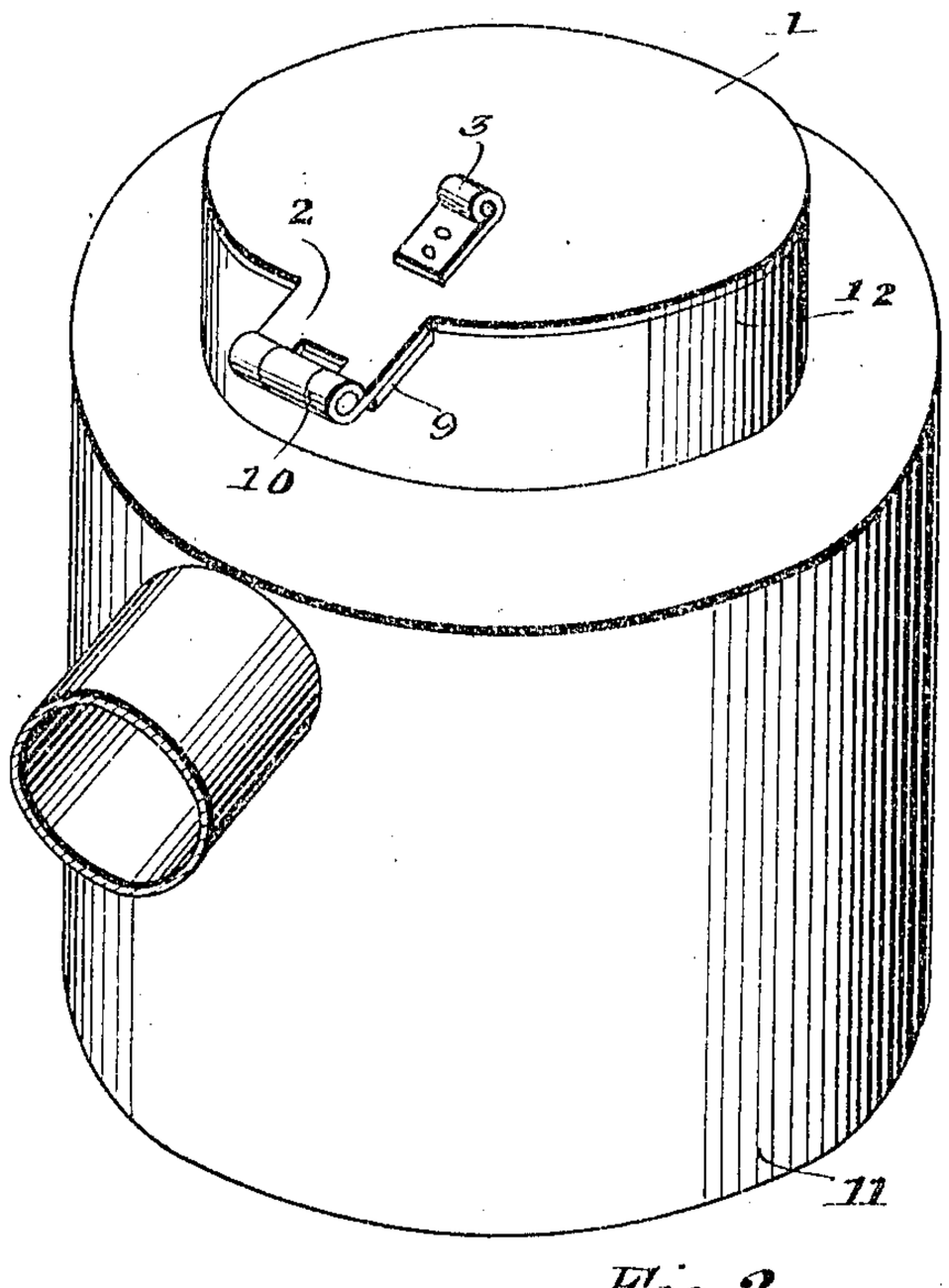
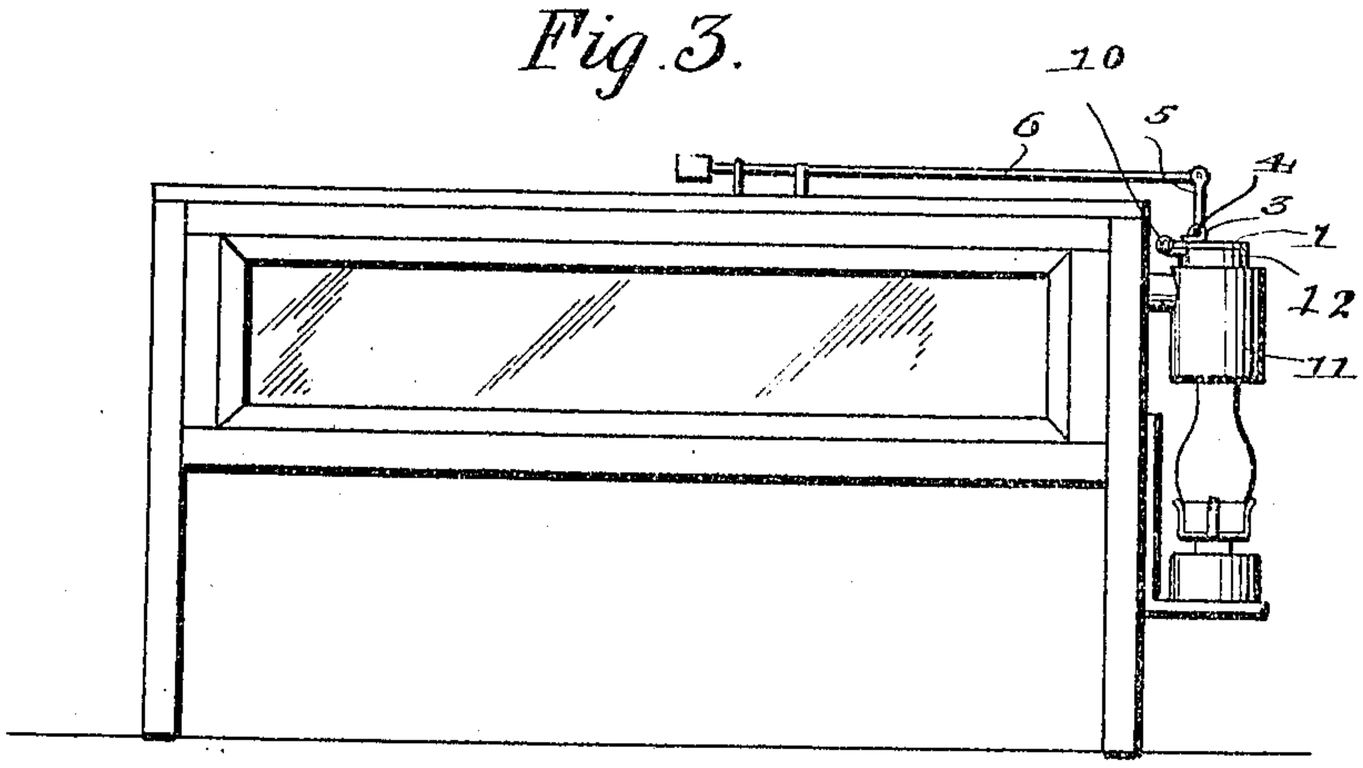


Fig. 2.

Fig. 3.



Witnesses

R. A. Thomas

T. E. Tindall

Inventor

R. A. Skinner

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

RUFUS A. SKINNER, OF ST. MARYS, OHIO.

REGULATING-DAMPER.

1,298,587. Specification of Letters Patent. Patented Mar. 25, 1919.

Application filed December 6, 1918. Serial No. 265,549.

To all whom it may concern:

Be it known that I, RUFUS A. SKINNER, a citizen of the United States, residing at St. Marys, in the State of Ohio, have invented new and useful Improvements in Regulating-Dampers, of which the following is a specification.

My present invention pertains to the automatic regulation of incubators; and it consists in the quick-acting, reliable and durable incubator damper hereinafter described and definitely claimed.

In the accompanying drawings, hereby made a part hereof:

Figure 1 is a perspective, illustrative of the construction constituting the best practical embodiment of my invention of which I am cognizant; the damper lid being shown in open position.

Fig. 2 is a perspective, showing the damper as attached to a tank for water or hot air, and with the lid in closed position.

Fig. 3 is a view showing the connection intermediate the damper lid and the regulator arm of an incubator.

Similar numerals of reference designating corresponding parts in all the views of the drawings.

Among other elements, my novel damper comprises a lid 1, having a shank 2 and also having a barrel or other suitable bearing 3. The said barrel is for the reception of a lateral arm 4 on a rod 5, which rod 5 is designed to effect connection of the lid 1 to the regulator arm 6 of the incubator, Fig. 3.

Disposed below the lid 1 is a contractible ring 7 of resilient sheet metal which is split throughout its height, as indicated by 8, in order to permit of its being readily slipped in and removed from the top of the tank above the lamp and to also enable it to accommodate itself to and by exerting yielding outward pressure to hold itself against movement in the top of the tank. On the upper edge of the ring 7 and preferably at a point diametrically opposite the opening 8 the ring is provided with a shank 9 to which the shank 2 of lid 1 is connected in hinged manner, as indicated by 10.

The tank 11 shown in Fig. 2 is provided with an annular collar 12 for the reception of the ring 7 of my improvement. The said tank 11 may be a hot air tank or may be a water tank without appreciably affecting my invention.

Manifestly, my novel damper is susceptible of being easily and cheaply produced, and its installation does not involve the employment of skilled labor. Moreover, the damper embodies no delicate parts such as are likely to get out of order after a short period of use.

In the practical operation of my novel damper it will be noted that when the lid 1 opens it prevents any circulation whatever of heat from the lamp through the incubator; and it will also be noted that the action of the lid 1 on the heat control is so accurate that the temperature of the incubator will remain the same at all times and any variation of temperature in the incubator is precluded.

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

1. A damper construction, comprising a split ring having a shank, and a lid opposed to the said ring and having a shank connected in hinged manner with that of the ring.

2. In a damper construction, the combination of an annular tank portion, a split ring disposed in said portion, and a lid hinged to the said ring.

3. In a damper construction, the combination of an annular tank portion, a resilient ring maintained of itself in said portion, a lid hinged to said ring, an incubator regulator arm, and means connecting the lid and said arm.

In testimony whereof I have affixed my signature.

RUFUS A. SKINNER.