

P. DEGIVE.  
Hatching Eggs.

No. 63,146.

Patented March 26, 1867.

Fig. 1

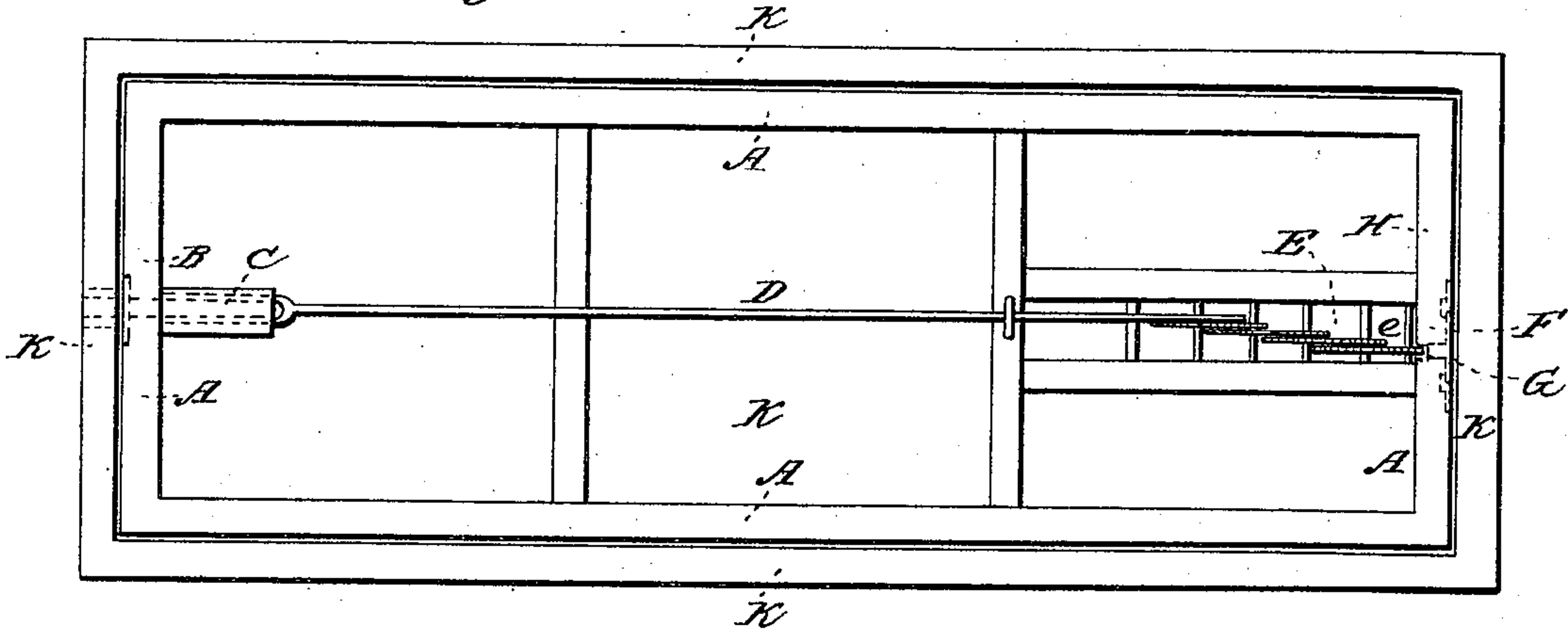


Fig. 2

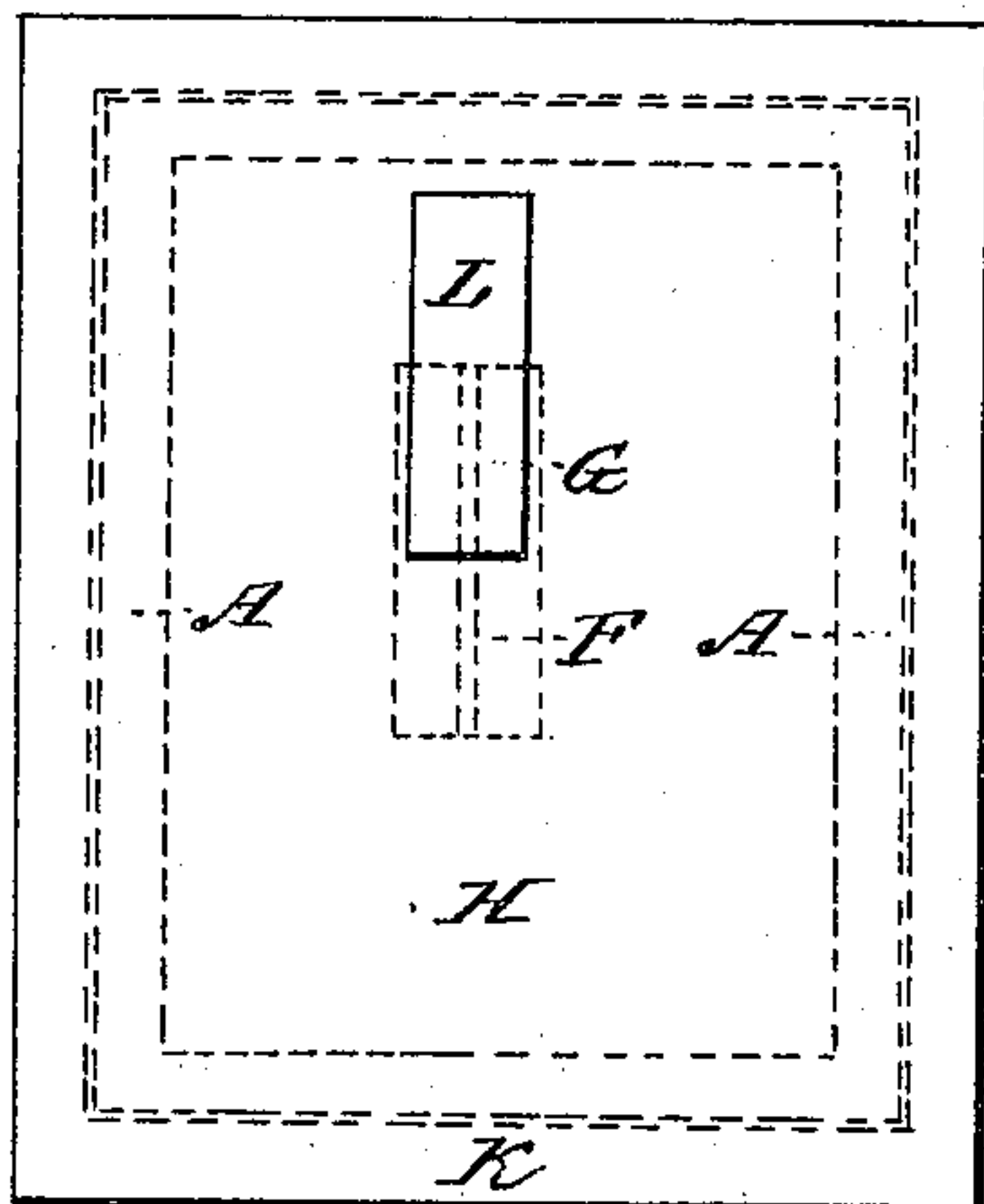
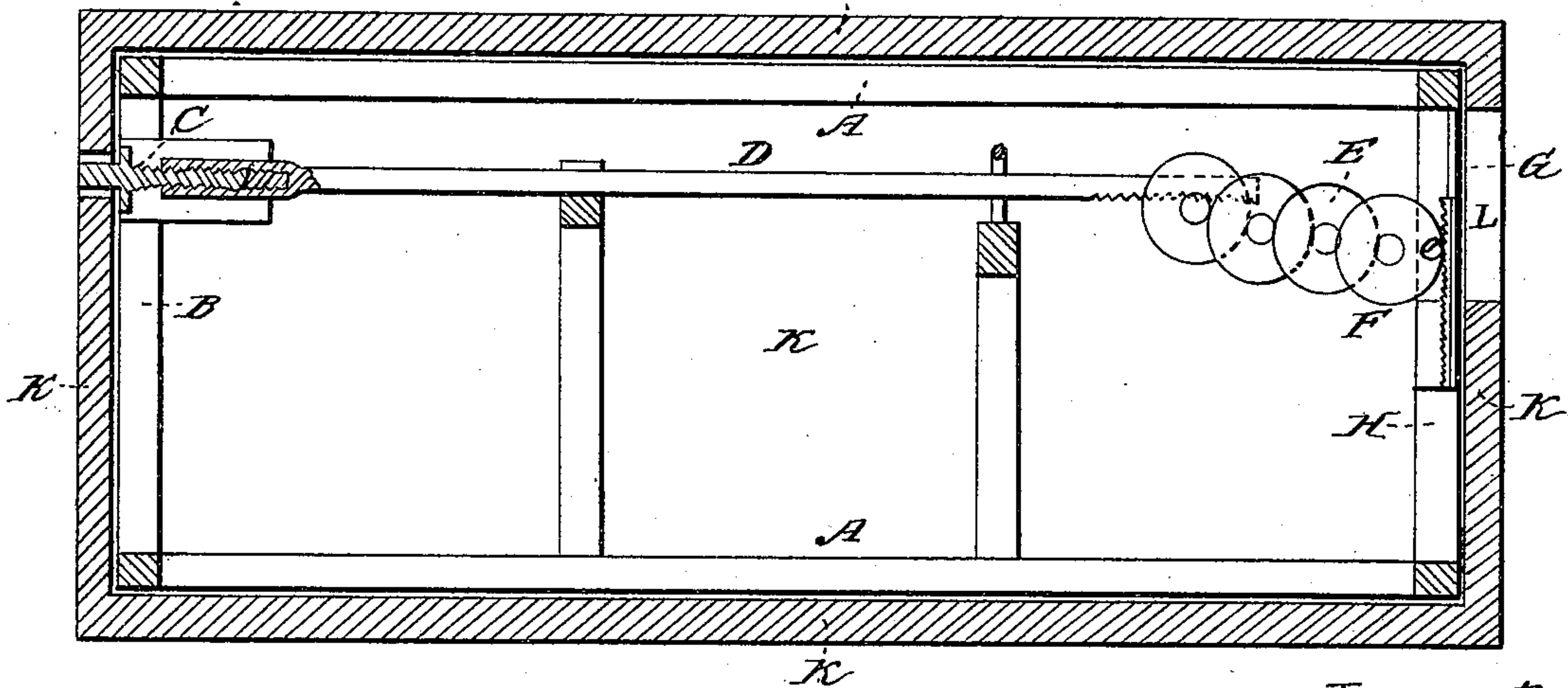


Fig. 3



Witnesses:

*H. Veele*  
*H. Hermudez*

Inventor:

*Peter Degive*

# United States Patent Office.

PETER DEGIVE, OF NEW YORK, N. Y.

*Letters Patent No. 63,146, dated March 26, 1867.*

## IMPROVEMENT IN APPARATUS FOR HATCHING EGGS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, PETER DEGIVE, of the city, county, and State of New York, have invented a new and useful Self-Regulating Apparatus for Hatching Eggs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming part of this specification, of which—

Figure 1 is a top view of my invention, with part of outer box removed.

Figure 2, an end view; and

Figure 3, a sectional view of same.

This invention relates to a novel device for securing a uniformity of heat for the artificial hatching of eggs, and consists of a copper rod, reaching nearly the length of the hatching box, having at one end an adjusting screw, while at the other end the said rod is connected with a train of gears, the last wheel of the train playing into a rack attached to a sliding door through which the heat from a furnace is admitted, so that as the rod expands or contracts, the door will be partially closed or opened, and thus a uniformity of heat of any desired degree obtained by means of my self-regulating apparatus, which may also be used for other purposes.

In the drawings, A represents a framework which sustains the self-regulating apparatus, of which B is an upright post containing an adjusting-screw, C, which is so connected with one end of a copper rod, D, as to slide said rod back and forth longitudinally when desired. The other end of the rod is connected with a train of gears, E, the last wheel, *e*, of the train playing into a rack, F, attached to a sliding door, G, in the end H of the framework; the whole being enclosed in an air-tight box, K, which has an aperture, L, in one end corresponding in size to the sliding door G, as shown in the drawings.

The operation of my invention is as follows: As the heated air is conducted from a furnace or other heating device through the door G into the interior of the hatching box K, and the degree of heat ascertained by a thermometer placed in the box, I next, by means of the adjusting-screw C, push the rod D back or forth, thereby closing or opening the sliding door G, until the required degree of heat is obtained, when it is plain to be seen that the rod D, which is composed of copper, (or of any other material of similar properties,) will expand and contract as the degrees of heat become more or less; and this rod being attached to the first mover of the train of multiplying gears so constructed in relation to the expansion and contraction of the rod D, and the movements of the sliding door G, through which the heat is received into the box K, that as the rod expands or contracts, say one thousand of its length, the sliding door will be closed or opened in the same ratio, and thus a uniformity of heat maintained in the hatching box K, which can be so regulated as to supply the required heat for the artificial hatching of any desired species of eggs.

Having described the nature of my invention, what I claim, and desire to secure by Letters Patent, is—

The screw C, and rod D, or its equivalent, in combination with the train of gears E, the door or damper G, and hatching box K, substantially as and for the purposes described and set forth.

In testimony whereof I have hereunto set my signature.

PETER DEGIVE.

Witnesses:

A. NEILL,

H. J. RAMSDALL.