

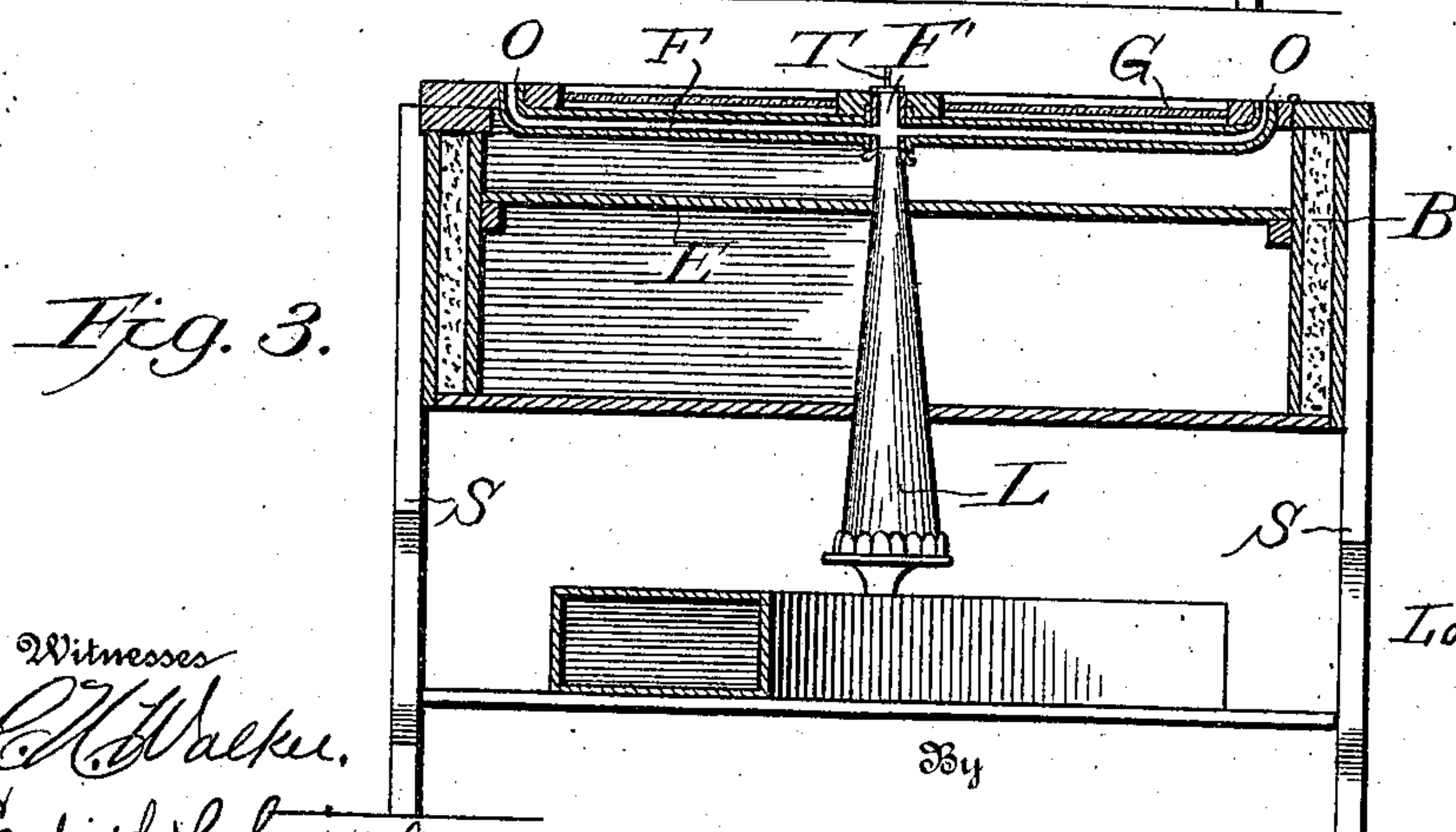
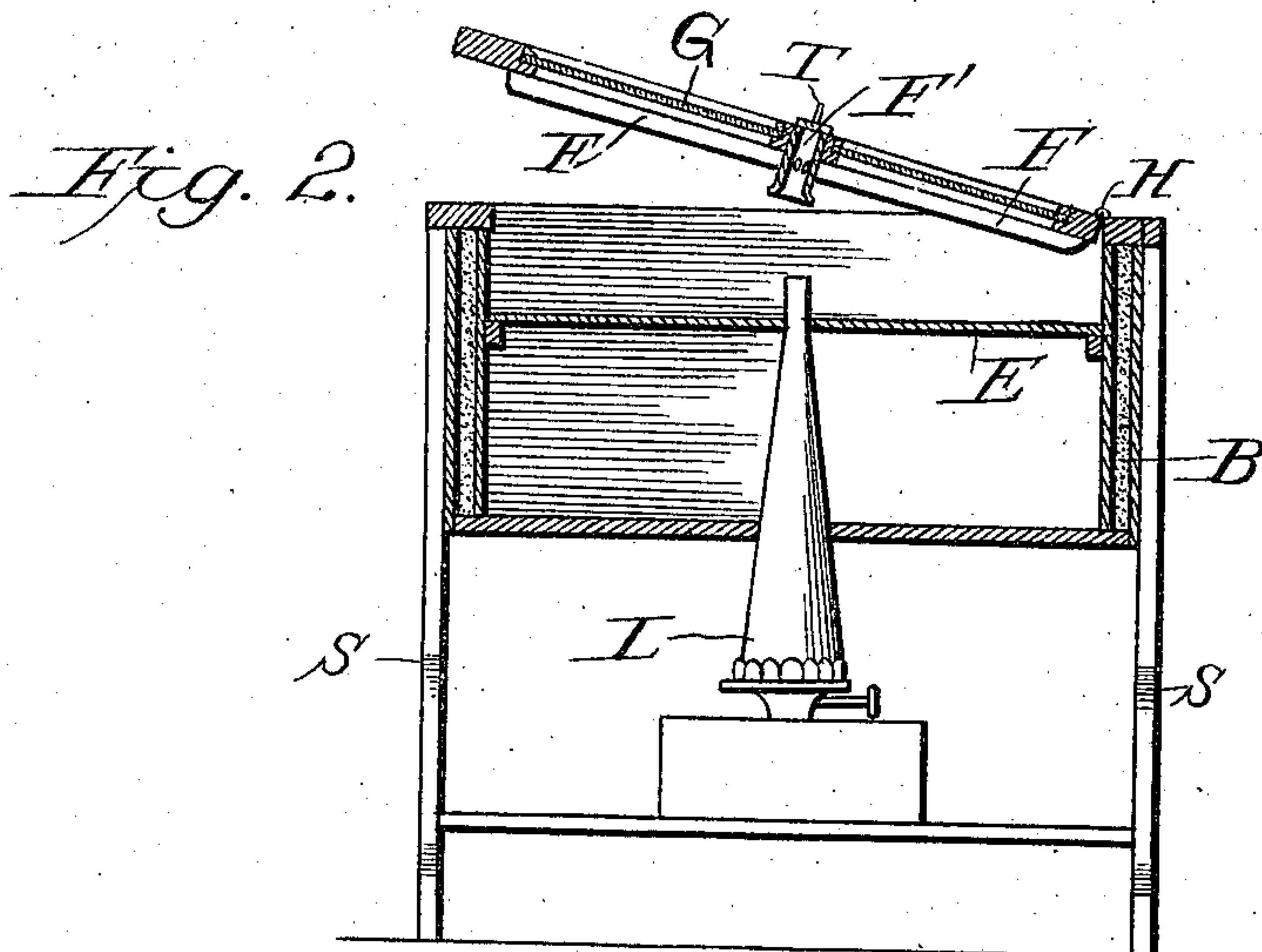
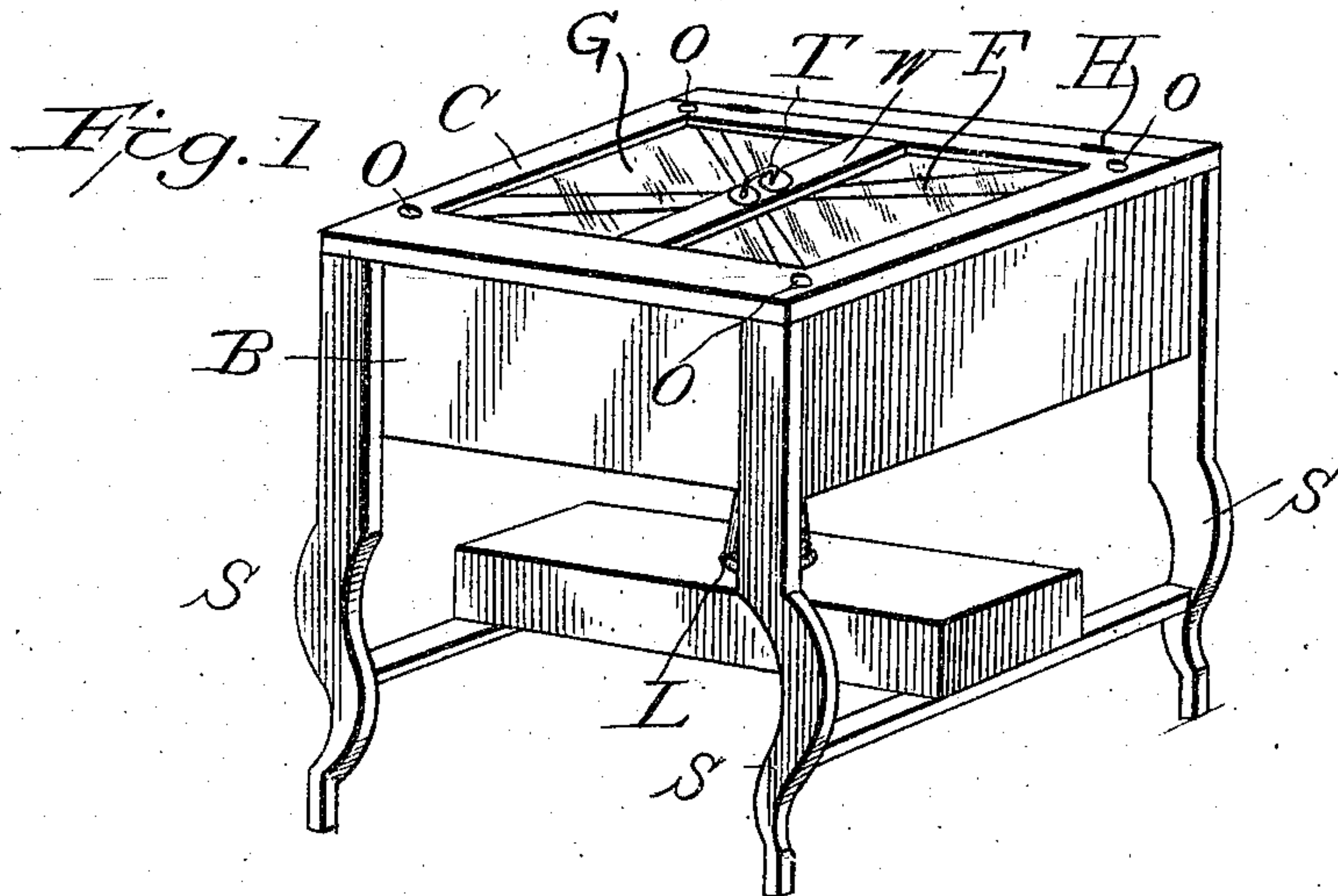
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No. 847,507.

PATENTED MAR. 19, 1907.

L. N. PORTER.  
INCUBATOR.

APPLICATION FILED AUG. 15, 1906.



Witnesses  
*C. Walker,*  
*Edith L. Smith*

Inventor:  
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*Collamer & Co.,* Attorneys



# UNITED STATES PATENT OFFICE.

LOUIS N. PORTER, OF PONCA, NEBRASKA, ASSIGNOR OF ONE-HALF TO  
JOHN H. KATE, OF WAYNE, NEBRASKA.

## INCUBATOR.

No. 847,507.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed August 15, 1906. Serial No. 330,623.

*To all whom it may concern:*

Be it known that I, LOUIS N. PORTER, a citizen of the United States, and a resident of Ponca, Dixon county, State of Nebraska, have invented certain new and useful improvements in Incubators; and my preferred manner of carrying out the invention is set forth in the following full, clear, and exact description, terminating with a claim particularly specifying the novelty.

This invention relates to the care of live stock, and more especially to that class of devices thereunder known as "incubators;" and the object of the same is to produce an incubator, with a hinged or removable cover, wherein the flues shall be so arranged as to radiate the heat from a common center (above the heater) to the corners of the incubator-casing, the better to serve the objects in view.

To this end the invention consists in a central location for the heater (herein shown as a lamp) and the employment of a cover (herein shown as hinged) beneath which the flues are arranged, with a hood for receiving the products of combustion from the lamp or the heat from the heater, directing it into said flues, causing it to flow radially outward to the corners of the casing, and permitting it to escape into the air at those points.

The following specification describes the present embodiment of my invention, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the incubator complete. Fig. 2 is a sectional view of the same with the hinged cover raised. Fig. 3 is a section on a diagonal line through the casing, as shown in Fig. 1.

Referring to the drawings, the letter B designates the body of the incubator, mounted on legs or supports S, and the heater or lamp L is shown as supported by said supports centrally beneath the body B. In the present instance the heater is a lamp whose chimney extends upward into the body and almost through the same, as shown.

The egg-tray E may have any convenient location, and the other details are not amplified in the drawings, as they form no part of the present invention.

C is a cover, in the present instance hinged, as at H, although it could be entirely removable without departing from the idea in view.

This cover may have glass panels G, permitting inspection of the eggs and trays. Possibly it has a transverse central strip, as of wood, W within its frame; but such details are not important.

Coming now more particularly to the present invention, the letters F designate flues extending radially and diametrically from the center of said cover C outward to its corners, where they are upturned or otherwise communicate with outlets O, as shown. At the center of the cover, where these flues converge, there is a hood or tubular member F', communicating with all said flues, possibly having its upper end open and regulated by a thermostat (such as T, indicated only in outline) and having its lower end open and large enough to fit over the upper end of the heater (in this case a lamp-chimney) when the cover is let down or put in place, so as to receive therefrom the products of combustion which are directed into the several flues and by the latter passed over the eggs to the several outlets O.

It will be obvious that when the cover is raised or removed the thermostat T goes with it; but when it is in place the thermostat performs its usual functions.

It is considered unnecessary to amplify and illustrate other details of the incubator, though it is probable that some regulator for the heater will be employed other than the thermostat herein referred to. The shape, size, materials, and proportions of parts are not essential, and considerable change in and amplification of the construction set forth can be made without departing from the spirit of the present invention. It appears to be only necessary to say that the heat rising from the heater passes into the hood and from the latter is deflected in X shape over and above the eggs, finally finding its exit at the corners through the outlets O.

What is claimed as new is—

1. In an incubator, a casing, a centrally-disposed stationary heater within the casing, a hinged cover for the latter having outlets at other points than its center, a hood at the center thereof adapted to fit over the heater when the cover is turned down into place, and flues carried by the cover and connecting said hood with the outlets.

2. In an incubator, the combination with a casing, and a heater directed upward



through the center of the casing; of a hinged cover for the casing having a central transverse strip and corner-outlets, a hood supported by said strip and extending through the cover whereby it is adapted to fit over the heater, and flues carried by the cover and leading from the hood to the outlets.

3. In an incubator, the combination with a casing, and a heater directed upward through the center of the casing; of a cover for the casing comprising a frame with outlets in it and a central transverse strip, a hood carried by said strip and adapted to fit over said heater when the cover is closed, and flues carried by and beneath the cover and connecting said hood with said outlets, as and for the purpose set forth.

4. In an incubator, the combination with

a casing, and a stationary heater directed upward through the center of the casing; of a hinged cover for the casing having outlets at its corners, a central hood carried by and opening through the cover and adapted to fit over said heater when the cover is closed, a thermostat on the cover for controlling the heat flowing from said hood, and flues carried by and beneath the cover and leading from said hood to said outlets, for the purpose set forth.

In testimony whereof I have hereunto subscribed my signature this 3d day of August, A. D. 1906.

LOUIS N. PORTER.

Witnesses:

JOHN V. PEARSON,  
NELLIE A. PEARSON.