

No. 844,626.

PATENTED FEB. 19, 1907.

W. A. SUMNER.
INCUBATOR LAMP CHIMNEY.
APPLICATION FILED JULY 19, 1906.

FIG. 1

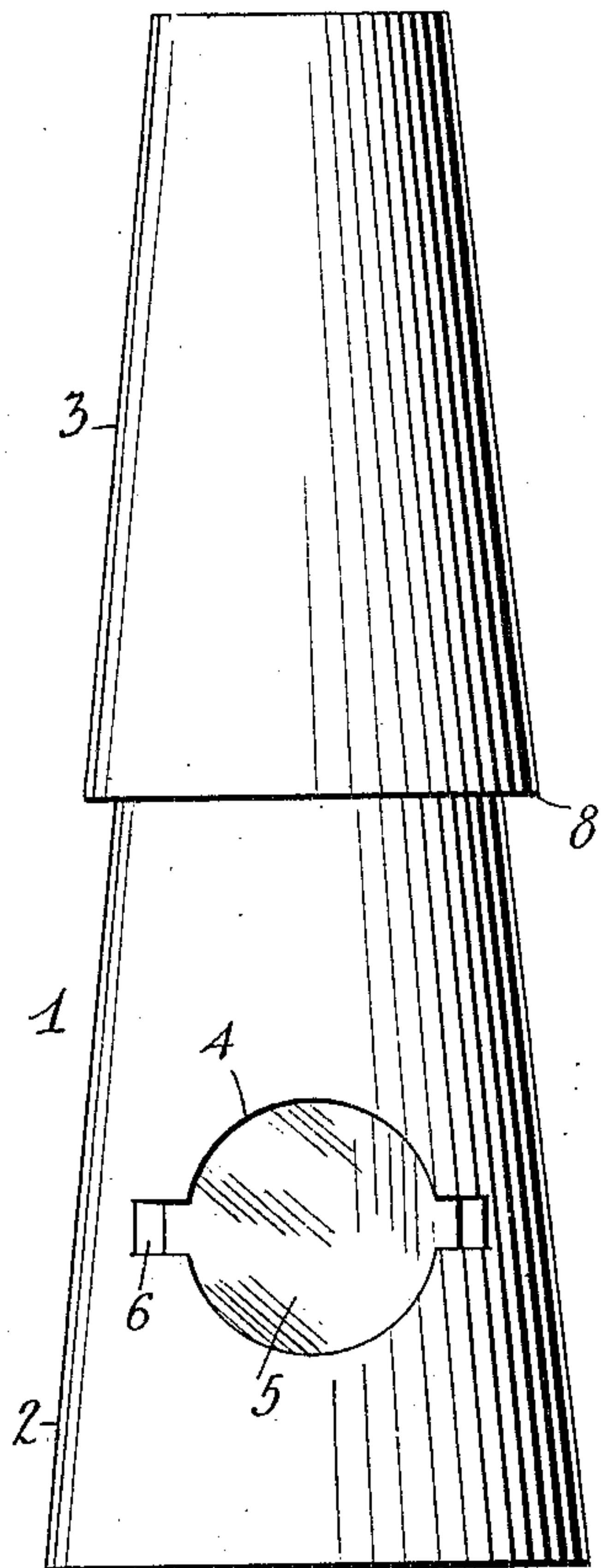


FIG. 2

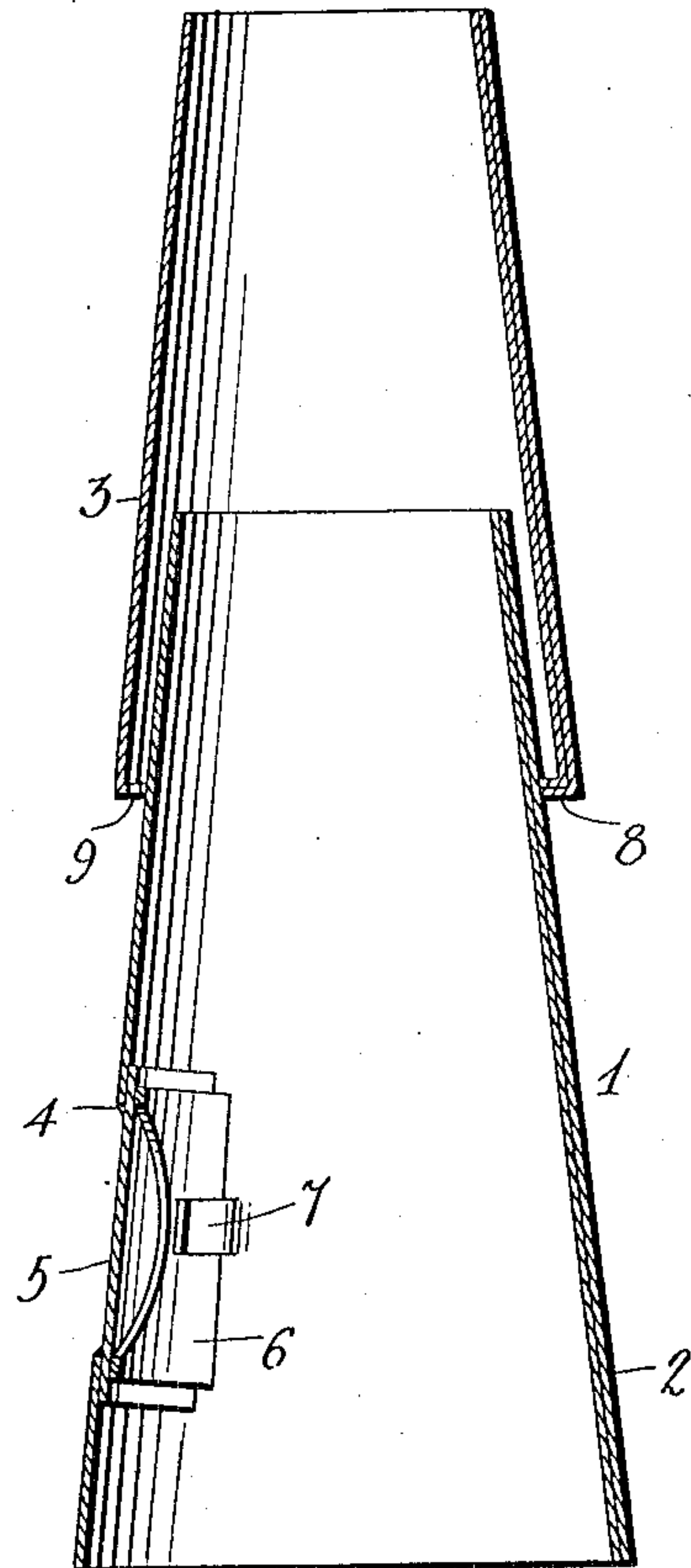


FIG. 3

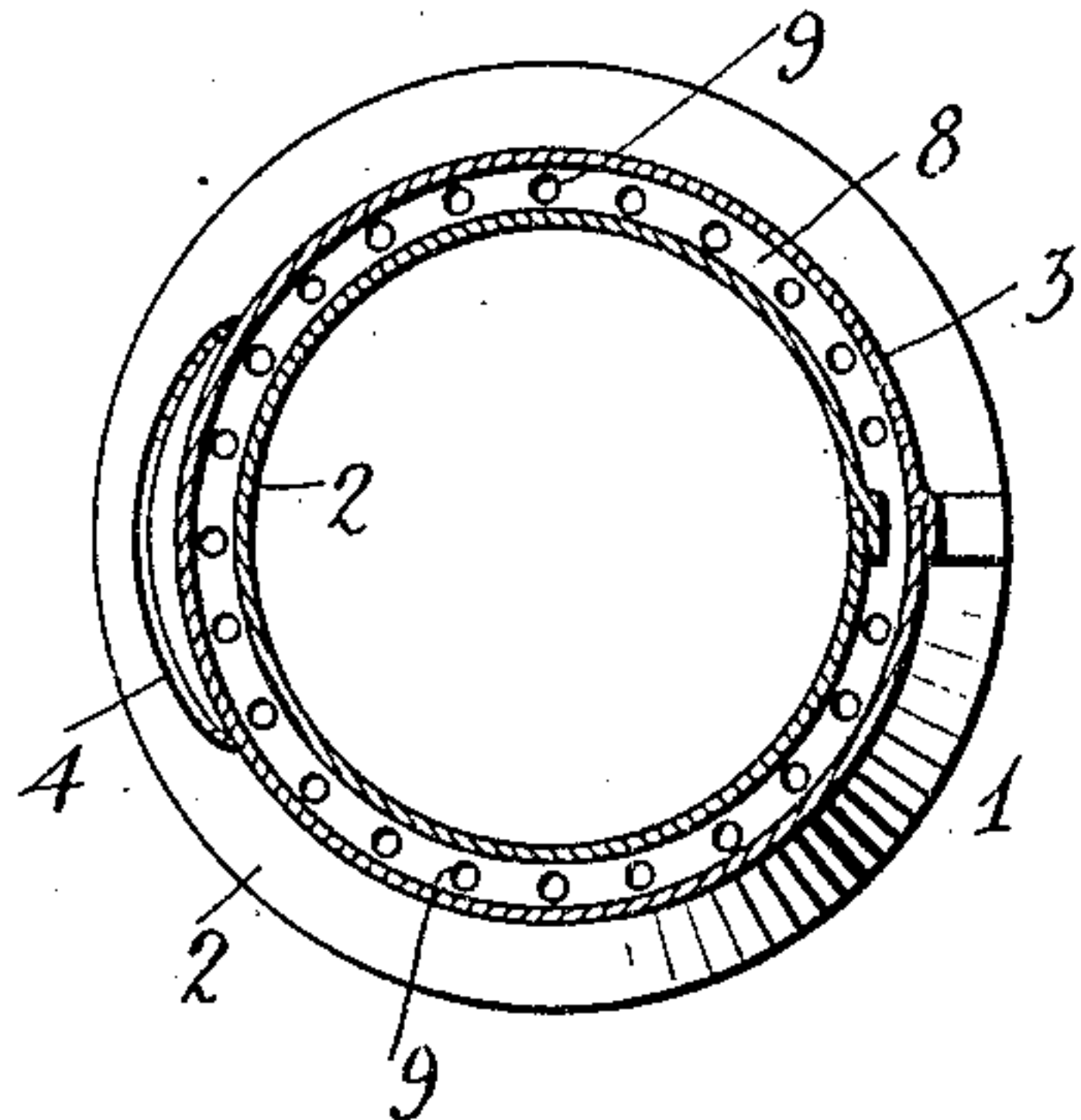
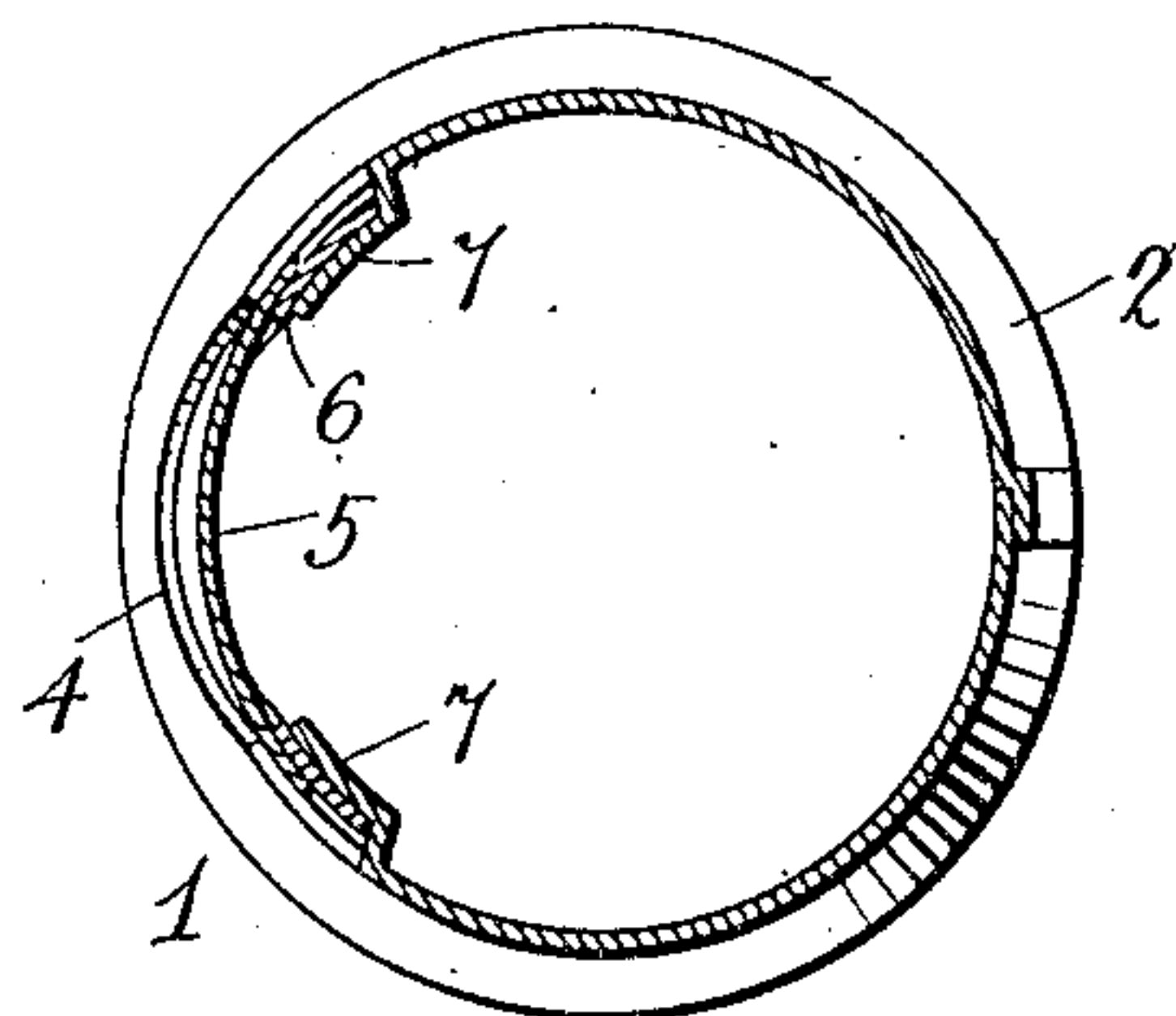


FIG. 4



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM A. SUMNER, OF FAIRFIELD, NEBRASKA, ASSIGNOR TO NEBRASKA
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INCUBATOR-LAMP CHIMNEY.

No. 844,626.

Specification of Letters Patent.

Patented Feb. 19, 1907.

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To all whom it may concern:

Be it known that I, WILLIAM A. SUMNER, a citizen of the United States, residing at Fairfield, in the county of Clay and State of Nebraska, have invented certain new and useful Improvements in Incubator-Lamp Chimneys; 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 incubator-lamp chimneys.

The object of the invention is to provide a chimney for incubator-lamps the construction and arrangement of which is designed to increase the heat-conducting capacity of the chimney, whereby the water in the incubator-boiler will be more quickly heated and the required heat more readily maintained therein.

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 side view of an incubator-lamp chimney constructed in accordance with the invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a horizontal cross-sectional view through the upper section of the chimney, and Fig. 4 is a similar view taken on a line with the center of the view-opening in the lower section of the chimney.

Referring more particular to the drawings, 1 denotes the chimney, which is preferably formed of sheet metal and consists of a lower frusto-conical-shaped lamp-engaging portion 2 and an upper similarly-shaped boiler-engaging portion 3, which is adapted to be placed over the upper end of the lower portion, as shown. The lower portion 2 of the chimney is preferably provided with a view-opening 4, formed in one side near the lower end thereof, said opening being preferably covered by a suitable transparent material 5, such as mica, said covering being held in place on the inner side of the section 2 by means of an apertured plate 6. The plate 6 is secured to the inner side of the chimney by means of tongues 7, which are cut from the metal forming the section, the plate 6 being inserted between said tongues and the adjacent inner walls of the section 2, as shown.

The upper section 3 of the chimney is provided on its lower end with an inwardly-projecting annular flange 8, adapted to engage and snugly fit over the upper end of the lower section, said upper end of the lower section projecting to a suitable distance within the lower end of the upper section, as shown, the flange providing a space between the inner wall of the upper section and the outer wall of the upper end of the lower section. The flange 8 is formed with an annular series of perforations 9, through which air is drawn, said air passing upwardly through the space between the upper end of the lower section and the lower end of the upper section of the chimney, where it is heated before entering into the main portion of the chimney. Said heated air when thus supplied greatly facilitates combustion and increases the heating power of the light, so that the water in the boiler at the upper end of the chimney will be more rapidly heated and the desired heat more readily maintained in the incubator.

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 claim.

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

A chimney of the character described, comprising two nested frusto-conical sections forming a straight passage-way open from end to end, the lower section being provided with a sight-opening, and the upper section being provided with an inward-projecting perforated flange that frictionally engages the lower section and holds the two parts detachably assembled.

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

WILLIAM A. SUMNER.

Witnesses:

H. E. SPENCER,
D. B. MASSIE.