

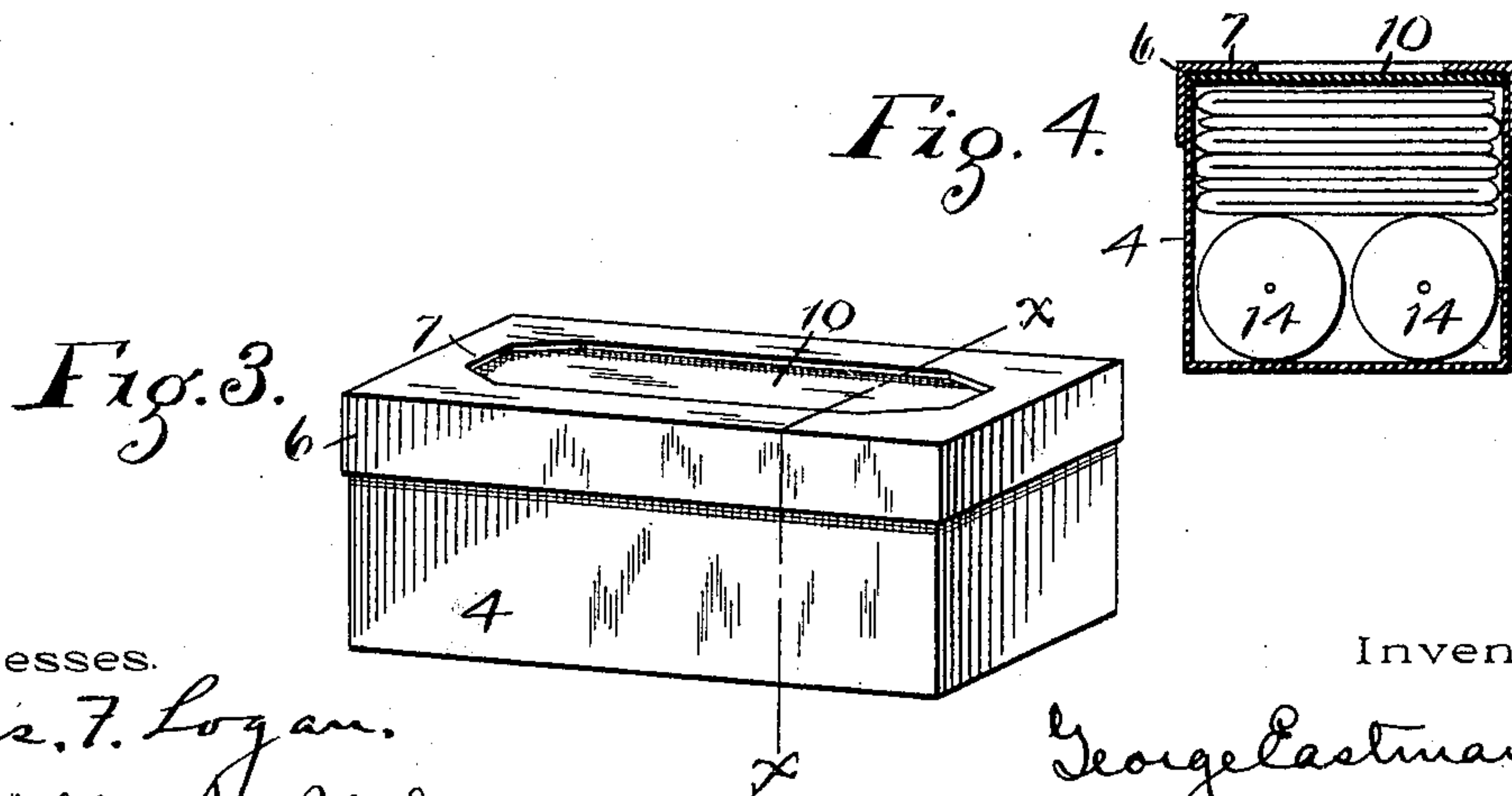
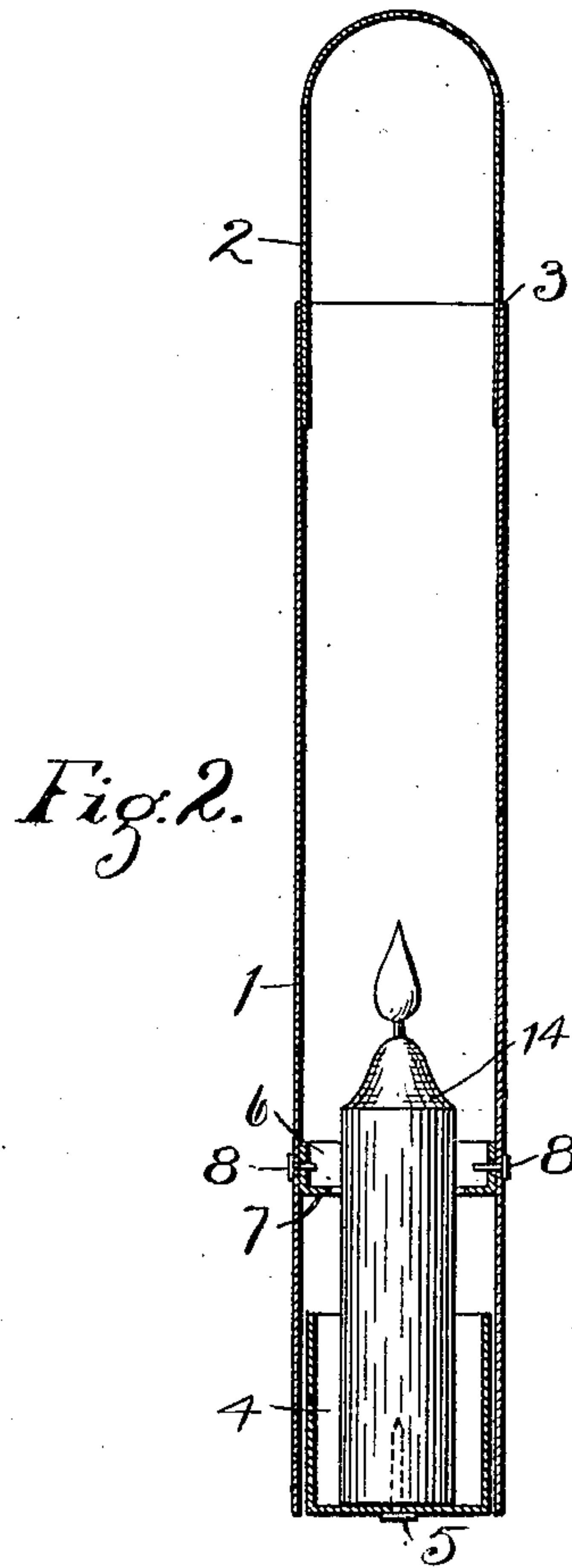
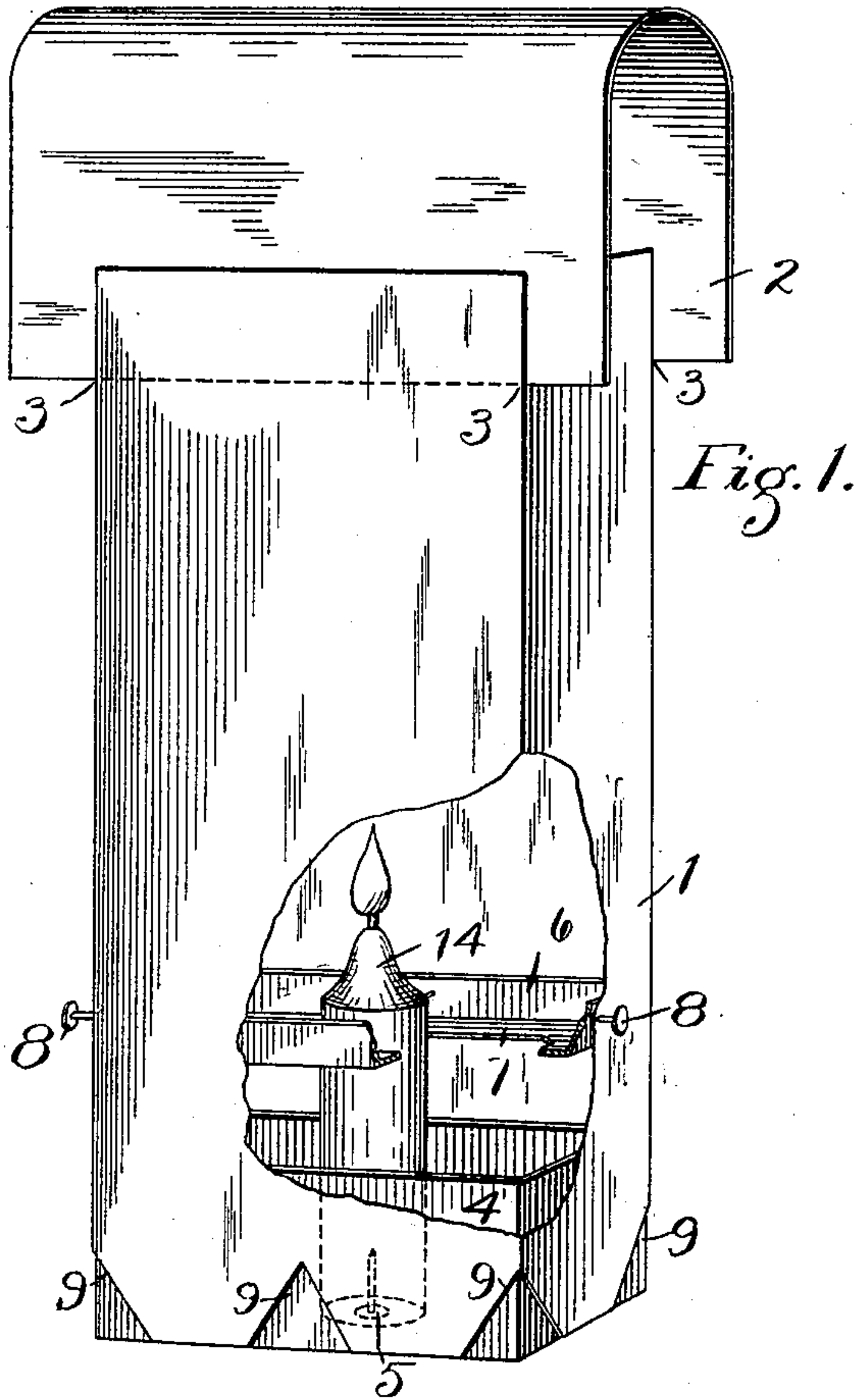
No. 611,898.

Patented Oct. 4, 1898.

G. EASTMAN.
LANTERN.

(Application filed Jan. 3, 1898.)

(No Model.)



Witnesses.

Chas. F. Logan.
William Rich.

Inventor.

George Eastman
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UNITED STATES PATENT OFFICE.

GEORGE EASTMAN, OF ROCHESTER, NEW YORK, ASSIGNOR TO THE
EASTMAN KODAK COMPANY, OF SAME PLACE.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 611,898, dated October 4, 1898.

Application filed January 3, 1898. Serial No. 665,317. (No model.)

To all whom it may concern:

Be it known that I, GEORGE EASTMAN, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Lanterns; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention has for its object to provide an improved lantern particularly adapted for use in a photographic dark room and which will emit only a non-actinic light, such as will not injuriously affect sensitive photographic plates and films; and it consists in a lamp simple and cheap in construction and collapsible, so that it may be folded into small compass when desired, all as will be hereinafter fully described, and the novel features pointed out in the claims at the end of this specification.

In the drawings, Figure 1 is a perspective view showing the lamp, part of it being broken away to more clearly show the interior arrangement of the parts; Fig. 2, a longitudinal cross-sectional view; Fig. 3, a perspective view of the box or receptacle; Fig. 4, a cross-sectional view on the line xx of Fig. 3.

Similar reference-numerals in the different figures indicate similar parts.

The body of chimney of the lamp is formed of a collapsible or foldable tube 1, of translucent paper or similar flexible material, preferably rectangular when extended, as in Fig. 1, and provided at its upper end with a hood or cover 2, formed of a separate piece of paper or similar material bent over the open end of the tube 1 and attached thereto in any suitable manner, as by slitting the corners of the tube at 3, inserting the edges of the hood, and securing them by paste, gum, or otherwise. The ends of the hood are open, as shown, and extend beyond the edges of the tube to prevent the upward passage of white light. The paper or other material of which the tube and hood are composed is preferably of such a color, as orange or red, that it will prevent the passage of any but non-actinic rays of light when the lantern is used for photographic purposes; but if it is

to be employed for other purposes it may be of any color desired.

The base of the lantern when set up is formed of a box or receptacle 4, preferably of pasteboard, adapted to have secured within it a source of illumination, as a candle 14, fastened in position by a tack or pin 5, extending through the bottom, as shown.

6 indicates an open frame or stiffener, preferably of the material of which the box is composed, as pasteboard, having the flanges 7 around the central aperture forming a cover for the receptacle, as will be described, and adapted, when the lantern is set up for use, to be secured in the body 1, above the lower end thereof, by suitable securing devices, as pins 8, passing through the parts, as shown, serving to stiffen the body when being handled and prevent its collapsing or coming in contact with the flame of the candle when the latter is lighted.

The lower end of the body or tube is preferably provided with slits 9 for the entrance of sufficient air to support combustion; but any other suitable means for admitting air and preventing the exit of light could be provided, if desired. When the lantern is in use, the tube, with the frame within it, is placed over the base or receptacle containing the lighted candle, as in Figs. 1 and 2, and the light passing through the tube will be of such character that all the necessary operations in a photographic dark room may be carried on without fogging the sensitive plates.

When the lantern is packed for transportation, the tube 1 and hood 3 are not usually connected, but are folded within the box, which also, preferably, contains one or more candles, and the cover-frame 6 is fitted over the top of the box, the flanges 7 thereof serving to confine in place the supplemental cover in the form of a card 10, which protects the contents from displacement or injury, as shown particularly in Fig. 3.

While I prefer to pack the collapsible body and hood separately and to connect them when the lantern is set up, it will be understood that they could be permanently connected, if desired, and folded to be packed in the box.

A lantern thus constructed is very cheap and simple and may be readily transported in collapsed or knockdown form and set up and used by unskilled persons.

5 I claim as my invention—

1. In a lantern, the combination of the collapsible body, the removable base, and an open stiffening-frame secured to the body above the base.

10 2. In a lantern, the combination with the base adapted to hold an illuminating device, as a candle, of the collapsible body separate from the base having a hood thereon and fitting over the base.

15 3. The combination with the box and the cover therefor open at the center, of a collapsible lantern-body adapted when extended to

coöperate with the box which latter serves as a base for the lantern.

4. The combination with the box and the 20 cover therefor open at the center, of the collapsible paper lantern-body adapted when extended to coöperate with the box, and a supplemental cover held between the box and the main cover.

5. The combination with the collapsible lantern-body 1 having the hood 2, of the box 4, the frame 6 having the flanges 7 and the supplemental cover 10, substantially as described. 25

GEO. EASTMAN.

Witnesses:

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ALICE K. WHITNEY.