

E. Warren Hastings'

PATENTED JUL 25 1871

Illuminator and Incense-burner.

117281

Fig. 1.

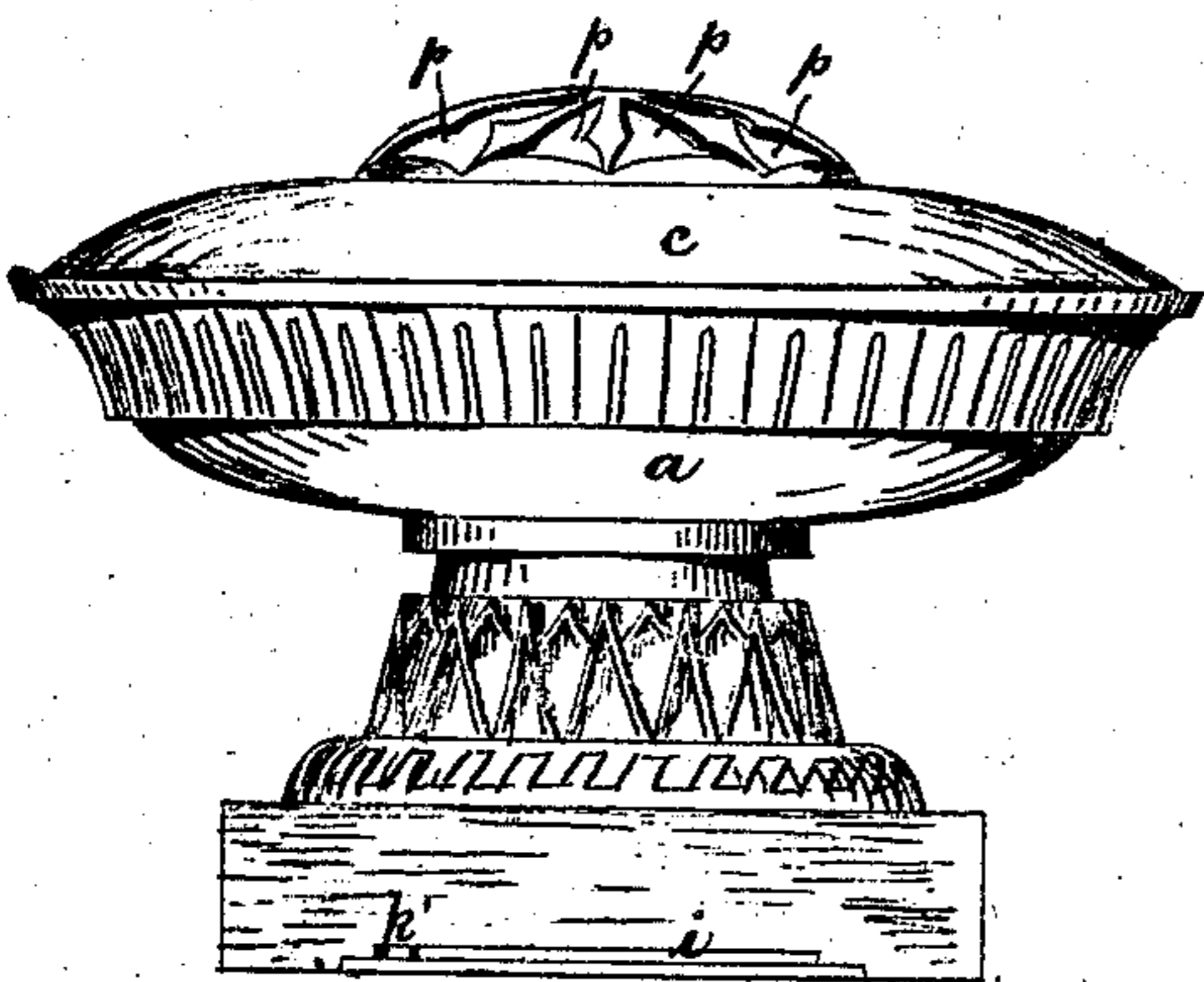


Fig. 2.

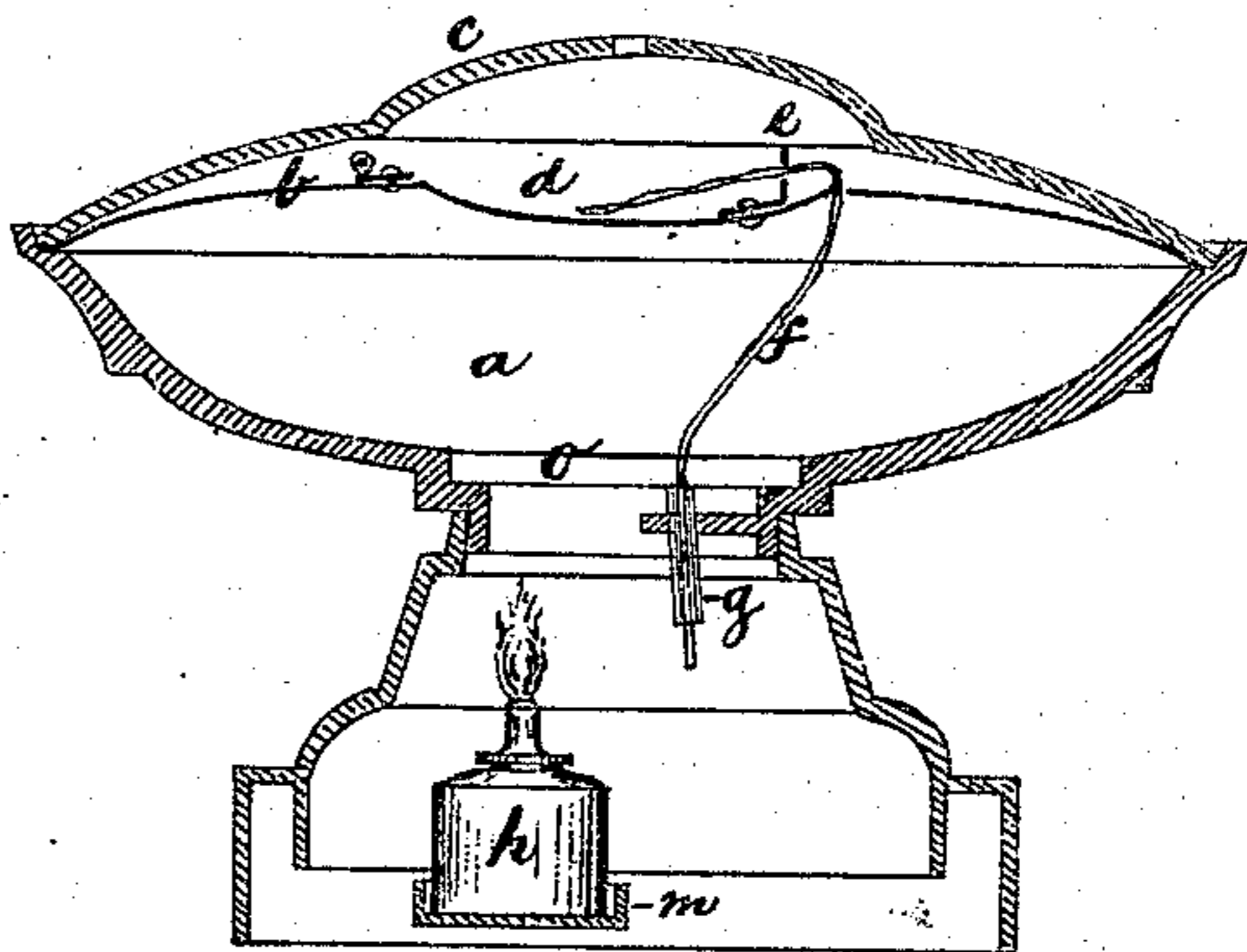


Fig. 6.

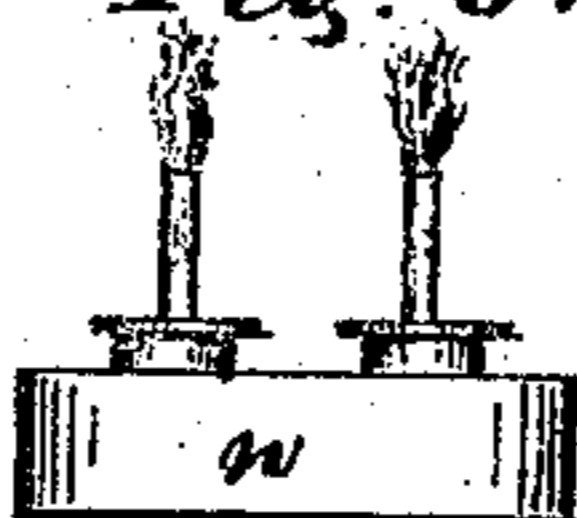


Fig. 3.

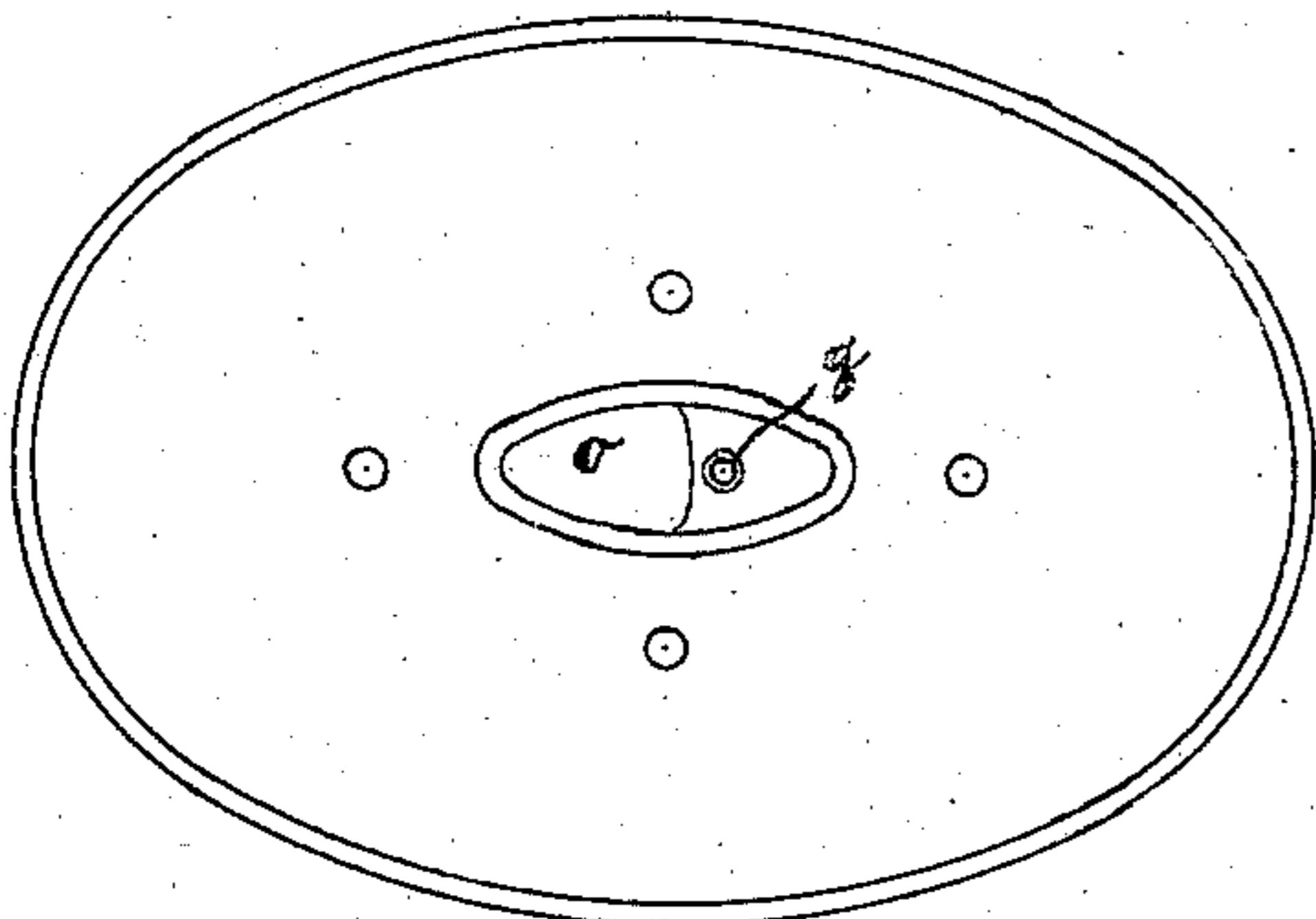


Fig. 4.

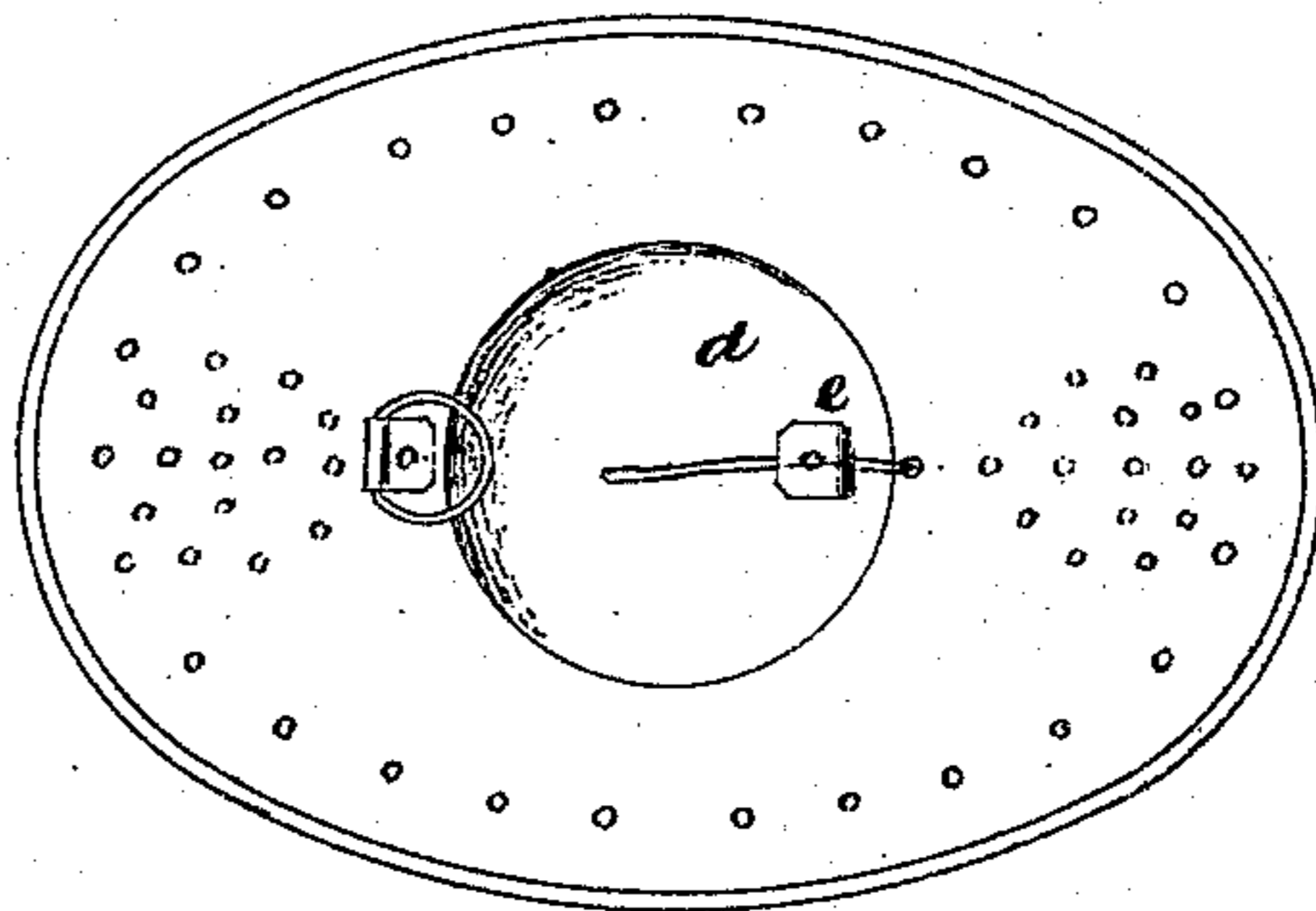
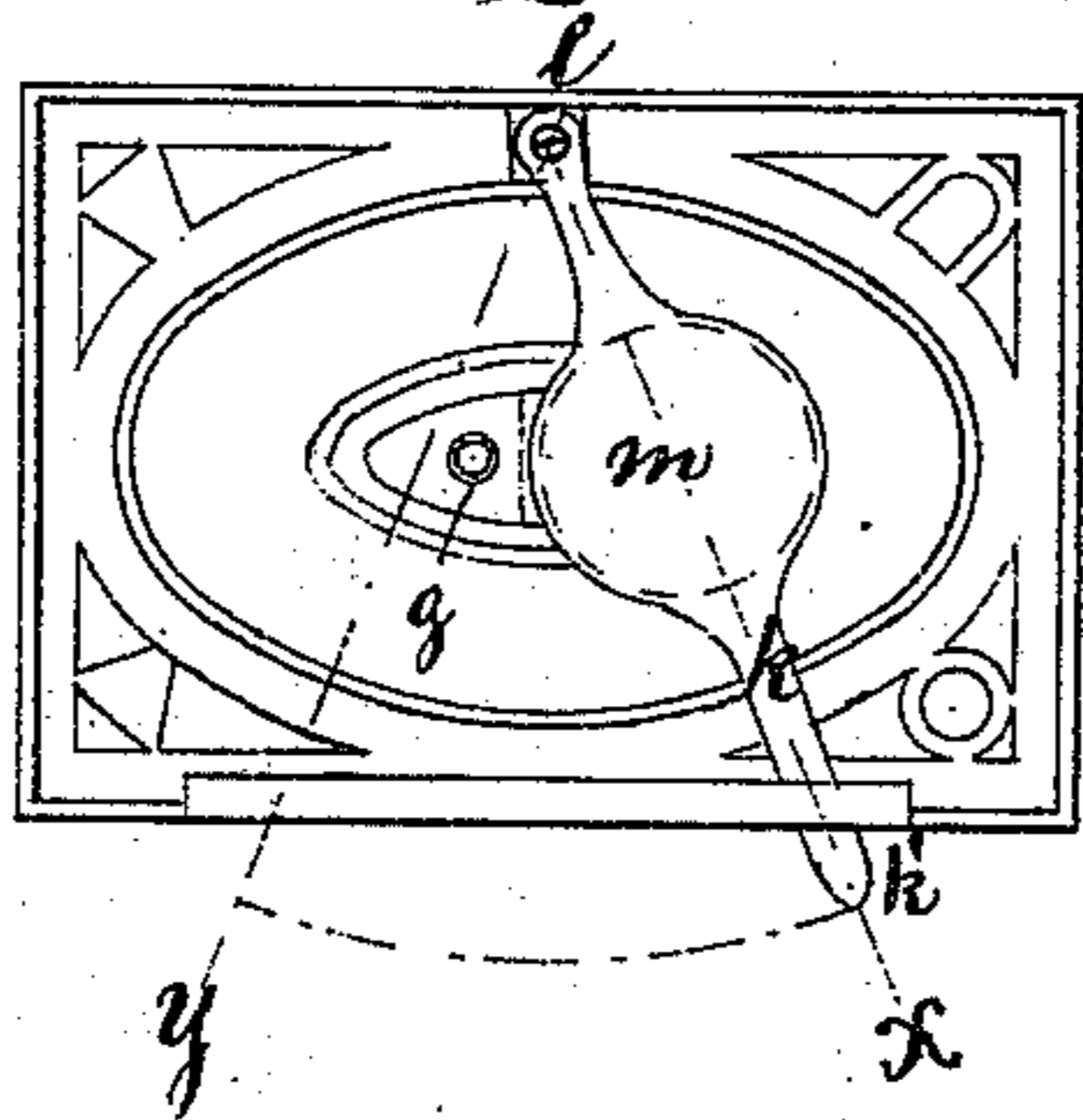


Fig. 5.



Witnesses:

Francis Gardner
Ringer Park.

Inventor.

E. Warren Hastings.
by his attorney Alban Andrieu

UNITED STATES PATENT OFFICE.

E. WARREN HASTINGS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN INCENSE-BURNERS.

Specification forming part of Letters Patent No. 117,281, dated July 25, 1871; antedated July 21, 1871.

To all whom it may concern:

Be it known that I, E. WARREN HASTINGS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Illuminators and Incense-Burners for Lodges, Theaters, and Societies, of which the following is a specification:

The nature of my invention relates to an illuminator so constructed that the illuminating compound or powder used can be ignited instantaneously simply by the use of a movable lamp, as hereafter will be fully shown and described, the said illuminator also to serve the purpose of an incense-burner when not used as an illuminator.

On the drawing, Figure 1 is a side view. Fig. 2 is a central longitudinal section. Fig. 3 is a plan of the inside of the urn as shown, with the covers *b* and *c* lifted off. Fig. 4 is a plan of the cover *b*. Fig. 5 is a bottom view of Fig. 1, and Fig. 6 is a side view of the lamp that is to be placed within the urn when used for incense-burning.

a, on Fig. 2, is an urn, the top of which is covered with two respective covers, *b* and *c*. The cover *b* has a spherical concavity, *d*, as shown on Figs. 2 and 4, which serves as a receptacle for the illuminating-powder or incense that is used. In the spherical concavity *d* is fixed a small bracket, *e*, having a hole through its vertical part that serves as a guide for the fuse *f*. The fuse *f* is laid in the bottom of the spherical concavity, and covered with the illuminating compound in the usual manner. The fuse is further put through the eye on the small bracket *e* and conducted downward through a small hole in the cover *b* on the right-hand side of the bracket *e*. The fuse is, still further down, guided by means of a small tube, *g*, fixed in a bearing in the body of the urn, as shown in Figs. 2 and 3. The fuse terminates a little below the lower end of this tube, as clearly shown in Fig. 2. In the base of the urn is a lamp, *h*, suspended and

movable in the following manner: In the lower part of the base, Fig. 1, is made a slot, *i*, wherein plays the projecting end of the slide *k*, as shown on Fig. 5. The said slide *k* is supported by means of a pin or screw in its opposite end *l* in such a manner as to be moveable around this pin or screw as a fulcrum. The central part of the slide *k* is made as a circular box, *m*, serving as a support for the lamp *h*. The lamp *h* is placed in the position as shown on Fig. 2 when not used; but when it is desired to ignite the illuminating-powder in the concavity *d* I simply move the slide *k* by touching the projecting end *k'* and moving it from the position indicated by the line *X* to the position *Y*, when the burning lamp *h* comes directly under the lower end of the fuse *f*, which latter, being thus ignited, conducts the fire, through the pipe *g* and bracket *e*, to the illuminating compound in the concavity *d*. The cover *c* is lifted off when the urn is used for illuminating purposes. When the urn is required for incense-burning I take away the lamp *h* and place instead of this one another, *n*, shown on Fig. 6. The incense is then placed in the same concavity *d* of the cover *b*. The cover *c* is then put on, and the smoke and fumes will arise through the perforations *p p p p* in the cover *c*. Both the body of the urn and the cover *b* have holes for the purpose of admitting air freely to and from the interior.

Having thus described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

A combined illuminator and incense-burner, constructed with the movable lamp *h*, slide *k*, fuse *f*, covers *b* and *c*, guides *g* and *e*, and the portable lamp *n*, in a manner and for the purpose as set forth and described.

E. WARREN HASTINGS.

Witnesses:

ALBAN ANDRÉN,
BIRGER BARK.