

G. F. I. COLBURN.

Lantern.

No. 42,839.

Patented May 24, 1864.

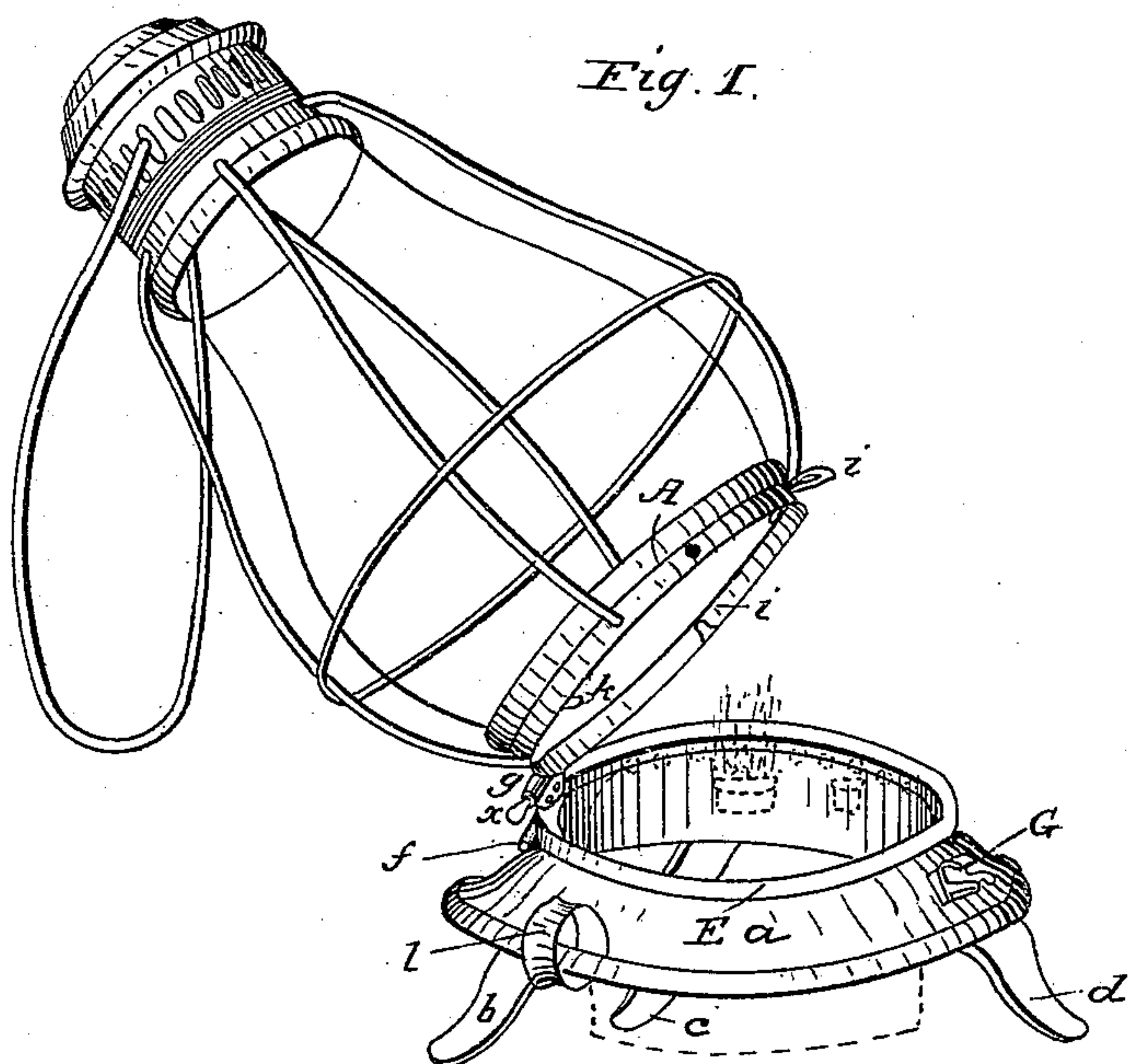
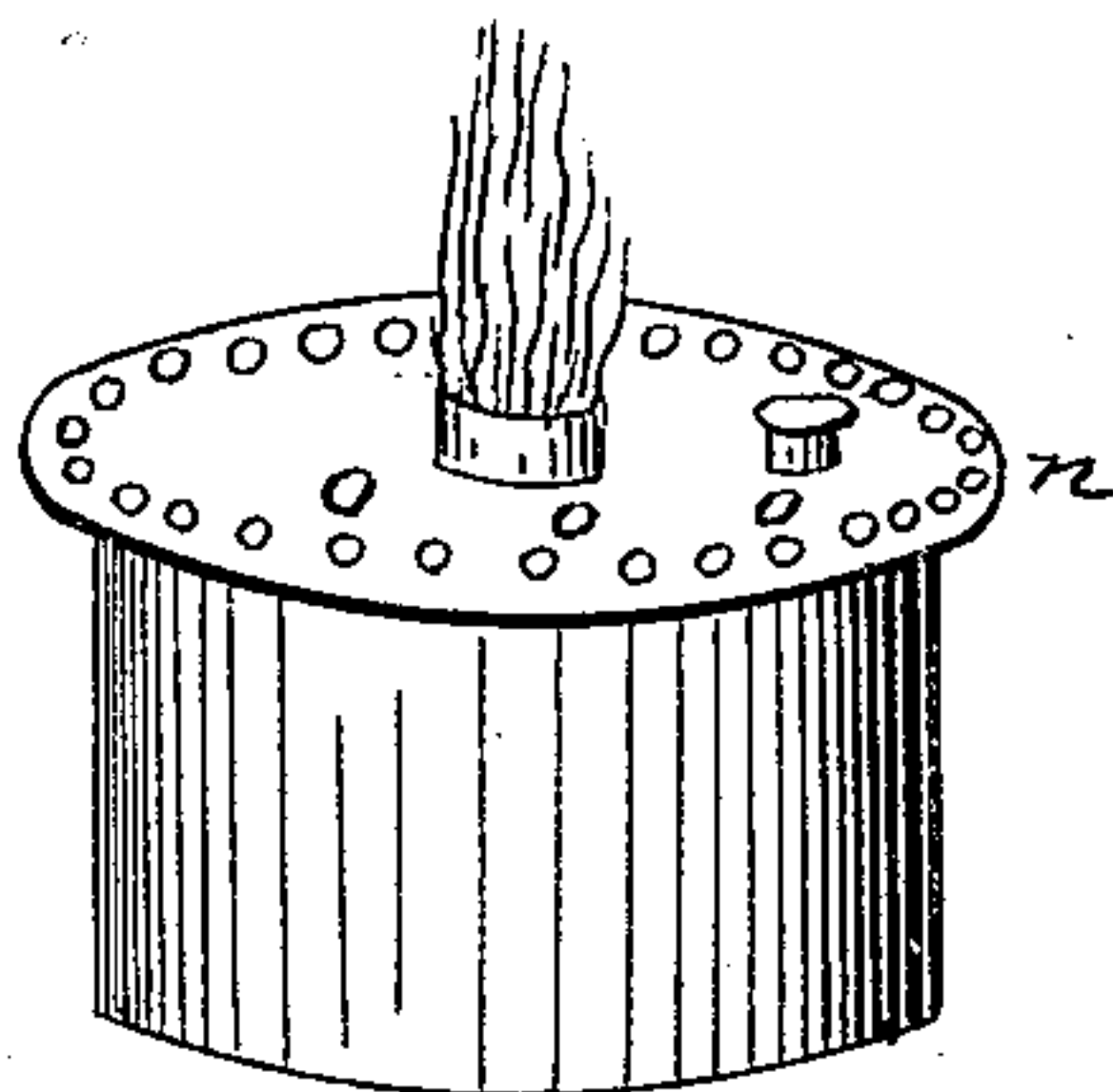


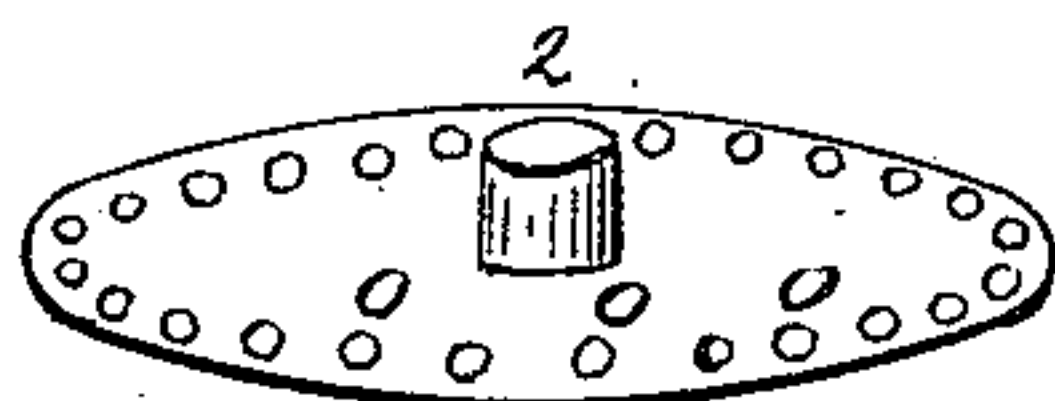
Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN LANTERN AND LAMP FRAMES.

Specification forming part of Letters Patent No. 42,839, dated May 24, 1864.

*To all whom it may concern:*

Be it known that I, GEORGE F. J. COLBURN, of the city of Newark, county of Essex, State of New Jersey, have invented an Improved Frame for Lantern and Lamp Purposes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the drawings making part of this specification.

Figure 1 is a view of the whole frame without the lamp or candle socket. The globe or chimney portion is turned back from the lower or base portion, so as to admit of placing a lamp or candle-socket within it when desired. The dotted lines show such application. Fig. 2, 2 shows the form of lamp and candle holder or socket that can be used with the frame.

The letters *a b c*, &c., refer to different parts of the invention.

The nature of my invention consists of so constructing and arranging two parts of a frame (one part supporting or holding a globe or chimney and the other a lamp or candle-holder) that when both parts are connected in a suitable manner and combined with a lamp or candle-holder and candle the frame will constitute a lantern, and when disconnected the lower or base part can, in combination with a lamp or candle-holder, be used as a hand-lamp or candlestick.

The nature of my invention also allows of a lamp being so suspended or supported in the frame that its case will always be acted upon by the external air, which will have a tendency to keep the oil cool within the vessel and prevent it becoming overheated and exploding, as sometimes occurs when metal lamps are used placed in or surrounded by a close-fitting base.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

I make the upper or chimney portion similar to those in general use, with the exception that I do not continue or extend the band surrounding and attaching the base of the glass to such a width as to form a base or support for the lamp. I use instead a narrow band or ring, which I attach to the glass in the usual manner, and to which can be attached the usual guards for protecting the glass, if necessary. This band is shown by letter *A* of the drawings. At different points of the lower

band or ring I form or attach projections or clamps *k l m*, which I make of such a form and place in such a position as to press upon the flange or projection on the upper part of the lamp or candle-holder, serving to keep them in their place in the ring and preventing their rising vertically when the frame is closed. I also attach to or form of some portion of this ring (shown by *g*) a part of a joint or hinge to fit a corresponding portion on the base-ring when it is desired to unite the upper and lower parts of the frame. I construct each portion of the hinge so that it can readily be connected or disconnected by withdrawing a pin, *x*, or by some other suitable arrangement. At another part of the same ring I form or attach a projection or part of a clasp, (shown at *i*), of such a shape that it will act conjointly with a device attached to the base-ring to fasten or release the upper and lower parts of the frame when operated for that purpose.

Having thus described my invention as relates to the upper or globe portion of the frame, I will proceed to explain the construction and arrangement of the ring or base part. I make this of any suitable metal, (either cast or struck up, or formed in any other manner suitable for the purpose,) in form similar to a ring, as seen at *a*. To some portion, as at *b c d*, I form or attach feet or legs, or some similar support, to give it sufficient elevation for using a lamp. On the upper plane of this ring, as at *e*, I form or attach a second ring, or its equivalent, of such a width and at such a distance from the inside orifice of the first that it will allow of or form a recess to receive and support the flange or projection of the lamp or candle-holder and prevent the said lamp, &c., from moving laterally in the frame. At some portion of the main ring, as at *f*, I form or attach a part of a hinge or joint to correspond or fit the part described as attached to the ring of the globe portion. To some part of this base-ring, most convenient for the purpose, I attach a device (shown at *g*) so constructed and arranged as to act as a catch or lock in conjunction with the part *i* on the globe part; also a ring, *l*, to act as a handle, if desired.

The lamp which I use is made to fit loosely in the frame. It is similar in form to the lamps used in lanterns. Attached to or making part of its upper edge is a flange or pro-



jection, *n*, perforated with holes *o o o* to allow of the passage of air to the flame. This flange serves to hang or support the lamp in its position in the ring. I use this perforated flange for the purposes mentioned unless by some other arrangement it is unnecessary—as, for instance, it may be most convenient to use as a substitute a perforated cup or one made of wire-gauze, with the flange attached for the purpose of holding a glass lamp. Such modification is applicable.

Small Fig. 2 of the drawings shows the candle socket or holder, consisting of a short metal tube (to hold the candle) and a perforated flange attached to or making a portion of it, for a similar purpose referred to in connection with the lamp.

Having fully described the construction and arrangement of my improved lantern and lamp frame, I will state the mode of operating it. When it is to be used as a lantern, I unite the globe or upper part with the base part by inserting the pin in the two portions of the hinge when united. I then place the lamp or candle-socket in the orifice of the base and bring the two portions of the frame together, so that they are locked by the operation of the

catch. The lamp can be filled, the wick lighted, trimmed, &c., by acting the catch and turning back the globe portion. When desirable to use the base portion as a hand-lamp or candlestick, (when combined with them,) the pin is removed from the hinge and the globe set aside.

Having described my invention and its operation, which I believe to be new and valuable for the purposes set forth, I will state what I claim and desire to secure by Letters Patent:

1. The lantern and lamp frame *A a*, so constructed and arranged as to allow either a lamp or a candlestick to be suspended therein, substantially in the manner and for the purposes set forth.

2. The whole lantern in all its parts, as combined, constructed, and arranged, and fully set forth and described in this my specification.

3. The lamp, Fig. 2, and the candlestick, constructed and connected with the lantern substantially in the manner set forth.

GEORGE F. J. COLBURN.

Witnesses:

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