

(No Model.)

M. G. STEVENS.  
LANTERN.

No. 521,829.

Patented June 26, 1894.

Fig: 1

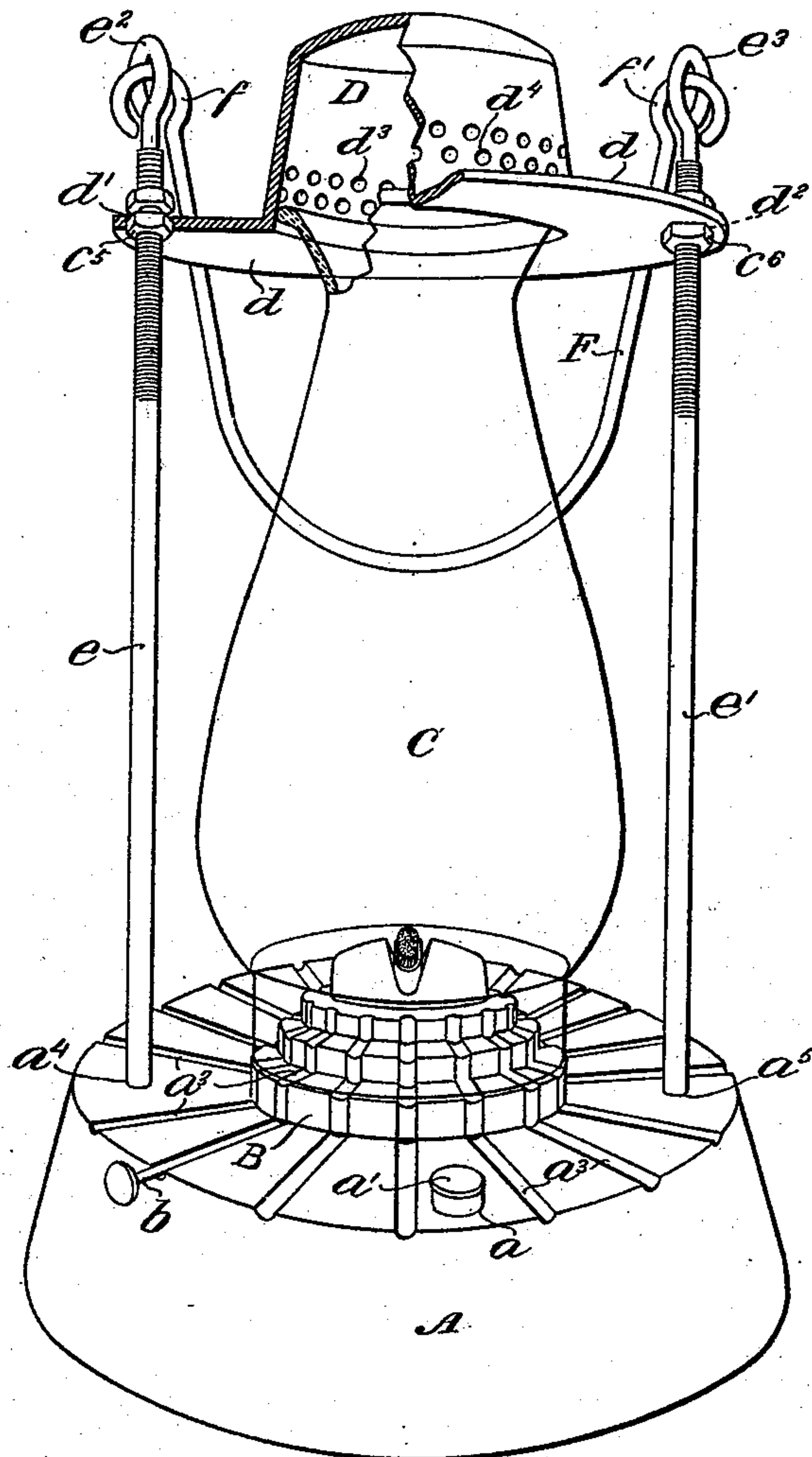
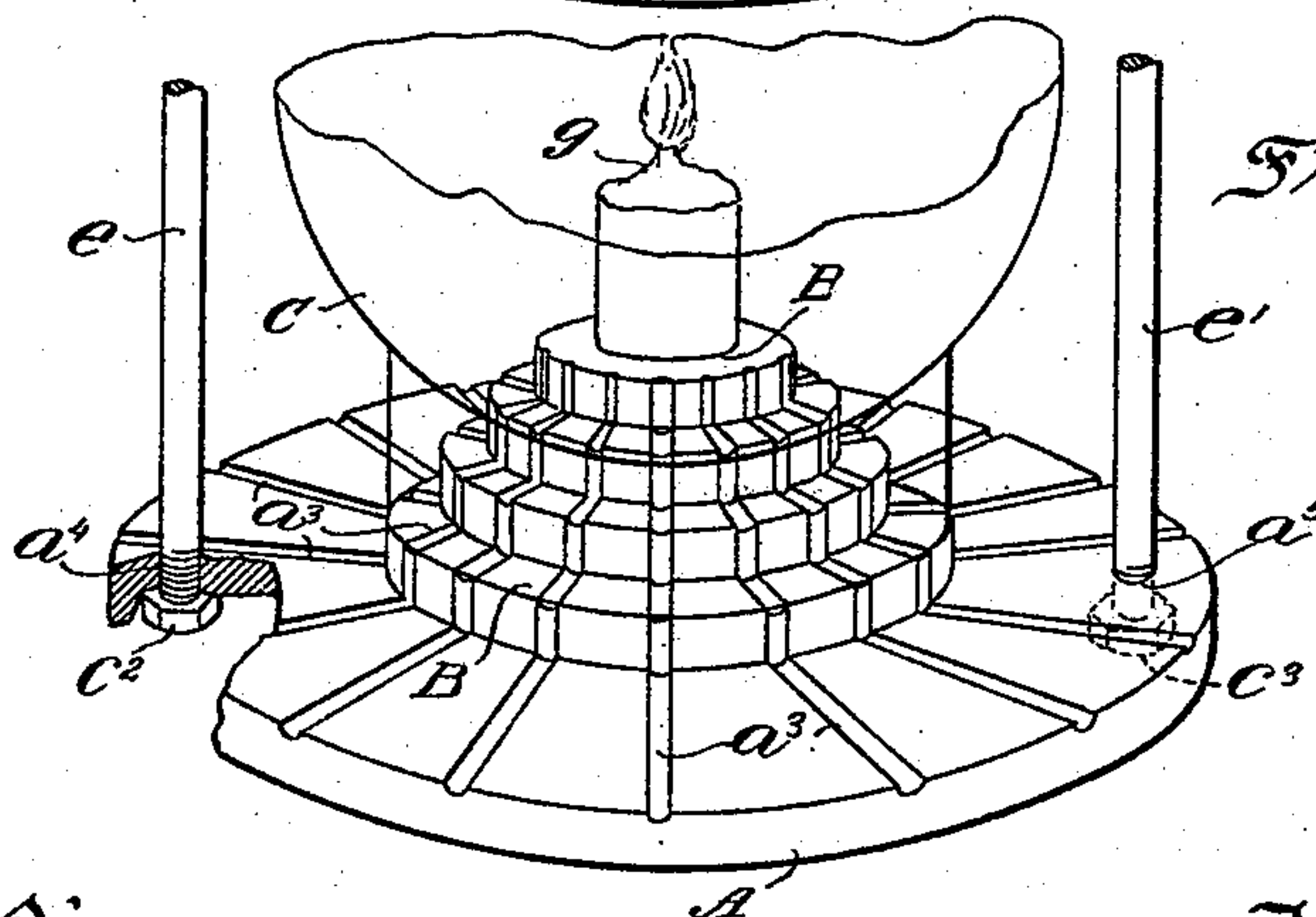


Fig: 2



Witnesses:  
Richard C. Maxwell.  
Thomas M. Smith.

Inventor.  
Marshall G. Stevens.  
By J. Walter England  
Attorney.



# UNITED STATES PATENT OFFICE.

MARSHALL G. STEVENS, OF MERCHANTVILLE, NEW JERSEY.

## LANTERN.

SPECIFICATION forming part of Letters Patent No. 521,829, dated June 26, 1894.

Application filed February 19, 1894. Serial No. 500,605. (No model.)

*To all whom it may concern:*

Be it known that I, MARSHALL G. STEVENS, a citizen of the United States, residing at Merchantville, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Lanterns, of which the following is a specification.

My invention has relation to lanterns; and it relates more particularly to the construction and arrangement of a hand lantern.

The principal objects of my invention are, first, to provide a simple, cheap and readily assembled hand lantern adapted for the reception of either a candle or a wick burner and for chimneys or the like of different diameters or sizes supported to required position by means of a detachable bonnet or cap provided with a rim which is engaged by vertical detachable rods or supports connected with the base of the lantern; and second, to provide a lantern with a ribbed, fluted or channeled base and preferably an integral step-like ribbed, fluted or channeled holder for the reception and support of the neck of a chimney or the like, the construction and arrangement of the lantern being such that the parts thereof can be readily assembled and detached for various purposes.

My invention consists of a lantern constructed, arranged and adapted for operation in the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof; and in which—

Figure 1, is a view partly in elevation and partly in section of a lantern embodying features of my invention and provided with an oil reservoir in the base with a wick-tube, slotted conical cap and wick for permitting of a flame being produced for illuminating purposes; and Fig. 2, is a view partly in elevation and partly in broken section of a lantern embodying features of my invention and adapted in this instance for the reception of an ordinary candle, and showing the fluted or channeled base and holder thereof for permitting of the admission of a supply of air to the interior of the chimney for insuring in use good illuminating effects of the lantern.

Referring to the drawings with special reference to Fig. 1, A is the hollow circular slanting base forming an oil reservoir and provided with an opening  $a$ , for the reception of a screw plug  $a'$ , which by the removal thereof permits of the introduction of oil into the interior of the base A.

In the top surface of the base A, are formed radiating channels  $a^3$ , extending from the axis thereof to the peripheral surface of the same, as illustrated in Fig. 1, and forming air spaces for a purpose to be presently described.

B, is a channeled or fluted step-like circular wick tube holder with a slotted cap secured into the base A, or formed integral therewith and provided with a wick regulating device  $b$ . This holder B, is adapted for the reception and support of the necks of globes or chimneys of different sizes or dimensions, as will be readily seen from the drawings.

The ribs, channels or flutes of the holder B, extending from the axis thereof to the outer periphery of the same merge with similar channels, ribs or flutes  $a^3$ , of the base A, of the lantern and constitute air channels for regulating the flame in the interior of the chimney or globe C. The chimney or globe C, is supported at the top in required position and against movement by means of a perforated bonnet or cap D, with an annular rim  $d$ .

$d'$  and  $d^2$ , are openings in the rim of the bonnet or cap D, for the insertion thereof of vertical rods or supports  $e$  and  $e'$ , which are partially threaded for some distance in their length from each end and pass through apertures  $a^4$  and  $a^5$ , in the top and bottom of the base A, of the lantern.  $c^2$  and  $c^3$ , are nuts secured to the lower ends of said rods or supports beneath the base A, and  $c^5$  and  $c^6$ , are nuts applied on each side of the rim  $d$ , of the bonnet or cap D, to the upper portions of the threaded rods or supports  $e$  and  $e'$ , for maintaining the bonnet or cap D, in required position and at the same time permitting of the ready detachment of the cap or bonnet therefrom, for taking the lantern apart for cleaning, shipment, or other purposes.

The upper ends of the supports or rods  $e$  and  $e'$ , are provided with eyes or loops  $e^2$  and  $e^3$ , adapted for the reception of complementary



catches or clips *f* and *f'*, of a bail *F*, and so arranged in connection with the eyes of the rods or supports *e* and *e'*, as to be readily detached therefrom.

5 With reference to Fig. 2, the construction of the lantern is the same as that of Fig. 1, with the exception that instead of a wick tube with its accessories being provided in connection with the step-like fluted and chan-  
 10 neled chimney neck holder *B*, the same is formed with a central socket or opening *B'*, for the reception of a candle *g*.

In use, with the several parts of the lantern assembled and arranged as illustrated  
 15 in Fig. 1, the incoming air will be permitted to pass through the series of radiating channels or flutes in the base and step-like holder of the device in an upward direction through the chamber or interior of the chimney or  
 20 globe *C*, and the heated air or products of combustion will escape through the series of apertures *d*<sup>3</sup> and *d*<sup>4</sup>, arranged around and extending through the bonnet or cap *D*, so that such circulation due to such arrangement in-  
 25 sures good illuminating effects from the flame of the lighted wick or candle of the lantern.

The particular advantageous features of my invention are, first, that the several parts comprising the same may be readily assem-  
 30 bled to constitute a cheap and efficient hand lantern; second, that the lantern is adapted for the use of the ordinary chimney in its different forms as it is found on the market because the necks will readily fit the step-  
 35 like holder *B*, which is adapted to support the same to required position; and third, that in case of shipment or repairs or in the event

of a broken chimney, by unscrewing the nuts connected with the vertical rods or supports another chimney may be readily inserted to  
 40 place or the several parts of the lantern taken apart with the least amount of labor and time consumed in so doing.

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

1. A hand-lantern, comprising a circular slanting base adapted to support the neck of a chimney or globe and provided with a chan-  
 50 neled or fluted radiating top surface, a circular fluted or channeled step-like holder, a perforated bonnet or cap with a rim, vertical rods or supports detachably engaging the rim of said bonnet or cap and said base, and  
 55 a bail connected with said rods or supports, substantially as and for the purposes set forth.

2. A hand lantern provided with a circular slanting base forming an oil reservoir and with a channeled or fluted radiating top sur-  
 60 face, a circular fluted or channeled step-like wick-tube holder and slotted-cap and wick regulating device, a chimney provided with a neck adapted to engage said holder, a perforated bonnet or cap with a rim, and vertical  
 65 rods or supports detachably engaging said bonnet or cap and base, substantially as and for the purposes set forth.

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

MARSHALL G. STEVENS.

Witnesses:

THOMAS M. SMITH,

RICHARD C. MAXWELL.