

(No Model.)

J. SENIOR.  
LAMP OR LANTERN.

No. 560,601.

Patented May 19, 1896.

Fig 1

Fig 2

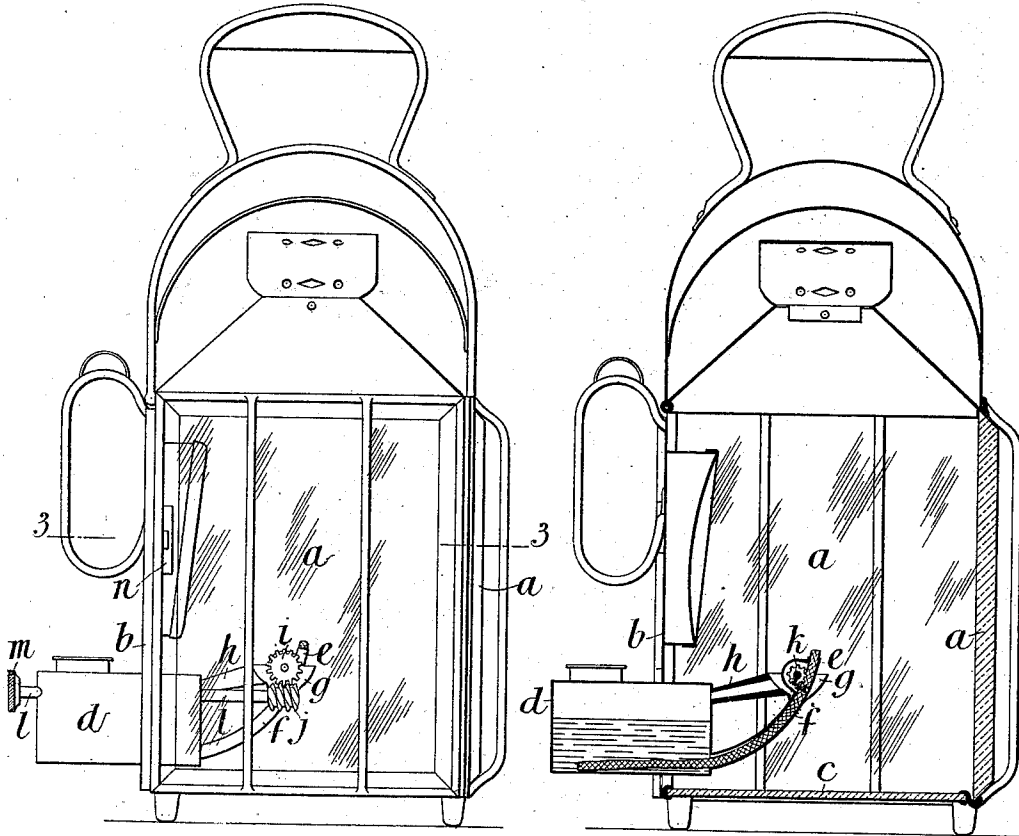
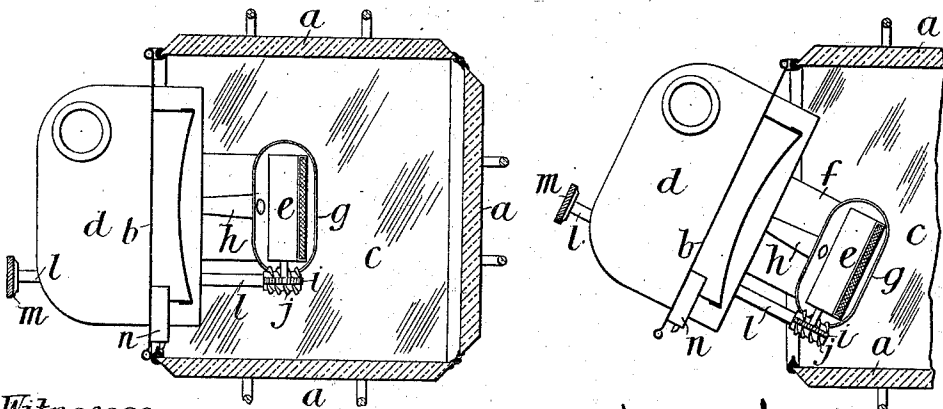


Fig 3

Fig 4



Witnesses.

J. D. Kingsbury.  
G. M. Coppenhaver.

Joseph Senior Inventor  
Whitaker & Treston Attys

# UNITED STATES PATENT OFFICE.

JOSEPH SENIOR, OF WAKEFIELD, ENGLAND.

## LAMP OR LANTERN.

SPECIFICATION forming part of Letters Patent No. 560,601, dated May 19, 1896.

Application filed February 21, 1895. Serial No. 539,179. (No model.) Patented in England January 27, 1892, No. 1,602; in France July 13, 1894, No. 240,026; in Belgium July 13, 1894, No. 110,970, and in Austria July 27, 1894, No. 44/3,548.

*To all whom it may concern:*

Be it known that I, JOSEPH SENIOR, a subject of the Queen of Great Britain, residing at Wakefield, England, have invented new and useful Improvements in Lamps or Lanterns, (for which I have obtained patents in Great Britain, No. 1,602, dated January 27, 1892; in France, No. 240,026, dated July 13, 1894; in Belgium, No. 110,970, dated July 13, 1894, and in Austria, No. 44/3,548, dated July 27, 1894,) of which the following is a specification.

My invention relates to oil lamps or lanterns. In such lamps or lanterns as heretofore constructed it has been usual to place the oil-reservoir at the bottom of the lantern.

Now one object of my invention is to provide a lamp or lantern having a non-light-obstructing bottom—that is to say, a lamp or lantern in which the light may be projected downward as well as from the sides—and to permit of accomplishing this I arrange the oil-reservoir considerably to one side of the vertical plane of the burner.

Another object of my invention is to obviate the liability of accidents which might arise owing to the door of the lantern being open, and to effect this I arrange the oil-reservoir with the burner projecting therefrom upon the door, whereby in case the lantern is not properly closed the opening of the door will bring the burner out of the lantern. I prefer to provide the door with a spring-lock, so that when closed it cannot be opened by an unauthorized person. The burner is preferably provided with a drip-flange for preventing any oil from dropping onto the bottom of the lantern, which is made of transparent material, and in order to permit of regulating the burner-wick without the necessity for opening the lantern I arrange, in combination with the wick-raising wheel, worm-gearing operated from the outside of the lantern.

To enable my invention to be fully understood, I will describe the same by reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a lantern

constructed according to my invention. Fig. 2 is a vertical section of the same; and Fig. 3 is a horizontal section on the line 3 3, Fig. 1. Fig. 4 is a part horizontal section similar to Fig. 3, but showing the door of the lantern open.

*a a a* are the transparent sides of the lantern.

*b* is the hinged door, and *c* is the transparent bottom.

*d* is the oil-reservoir, which is fixed to the door, and *e* is the burner, which, as shown in the drawings, is adapted for burning colza or similar oil.

The wick-tube *f* extends to the bottom of the reservoir *d* and is of such length that when the burner is at the center of the lantern the oil-reservoir will be out of the vertical plane of the burner, so that the light may shine through the lantern-bottom without any other obstruction than that of the said wick-tube.

*g* is the drip-flange fixed around the top of the burner *e* and connected by the channel *h* to the oil-reservoir *d*, so that any oil which flows down the channel from the burner may be conducted back to the said reservoir.

*i* and *j* are the worm-wheel and worm, respectively, through the medium of which the wick of the lantern can be regulated, the worm-wheel *i* being mounted upon the spindle of the wick-raising wheel *k* and the worm *j* mounted upon a spindle *l*, which extends to the outside of the lantern, where it is provided with an operating-knob *m*.

*n* is a spring-lock, of any suitable or ordinary construction, which is fixed to the door and serves for locking the same when the door is swung to, the said spring-lock being preferably one adapted to be operated upon by a key, so that the door cannot be opened by any one not having the said key.

Although I have shown my lantern as being arranged in conjunction with a burner for colza or similar oil, it will be readily understood that the construction of the burner may be modified in order to adapt it for burning hydrocarbon oils.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

5 In a portable hand-lantern, the combination with a non-light-obstructing bottom, of a door, an oil-reservoir rigidly secured to said

door, and a burner in a different vertical plane from said reservoir, substantially as described.

JOSEPH SENIOR.

Witnesses:

F. FRED. POWELL,  
WILLIAM HILLS.