

(No Model.)

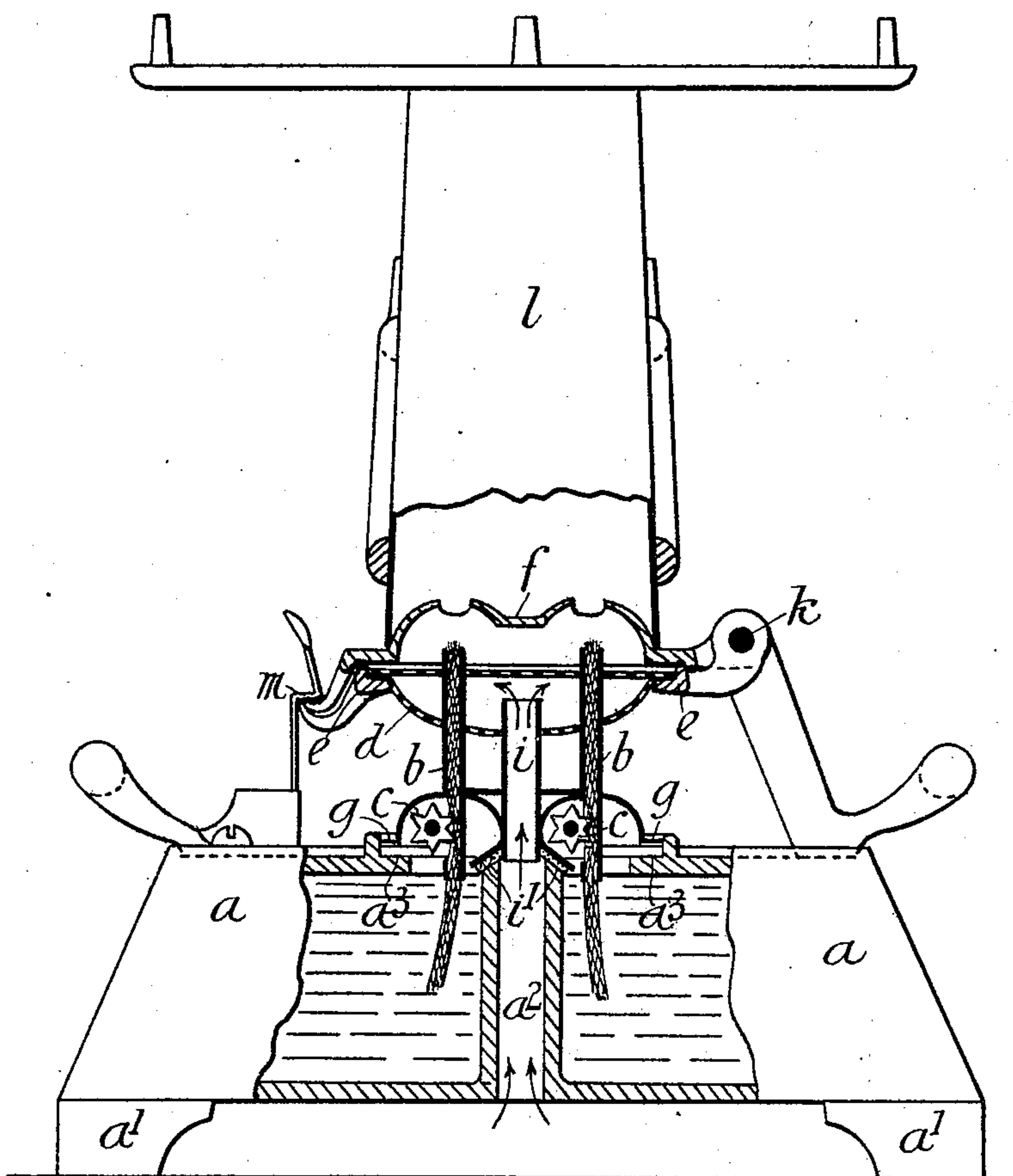
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W. PORTER.
LAMP AND LAMP STOVE.

No. 564,098.

Patented July 14, 1896.

Fig. 1.



Witnesses.
Walter E. Allen.
Jas. W. White.

Inventor.
William Porter.
By Knight Bros
Attorneys

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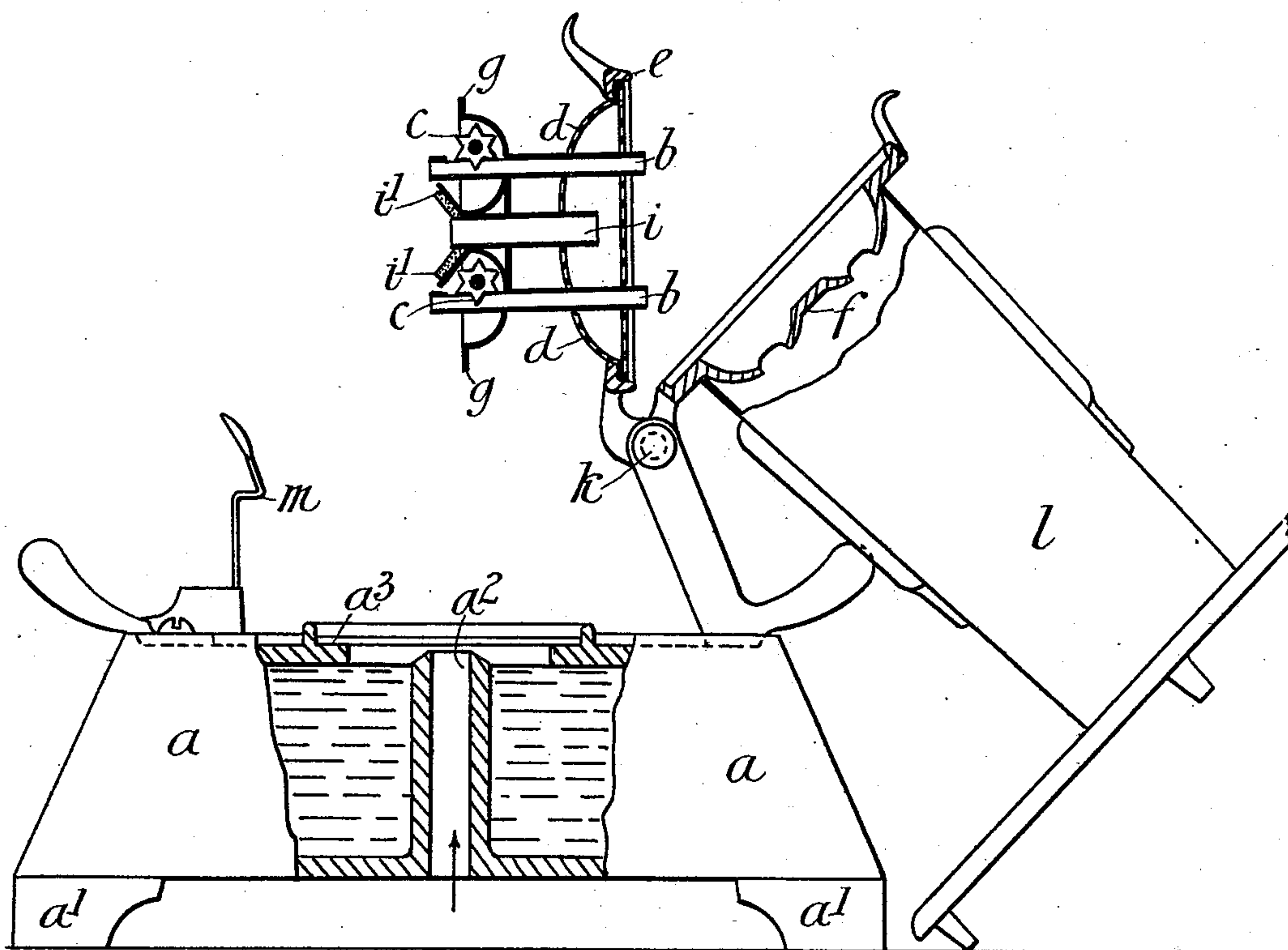
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Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM PORTER, OF BIRMINGHAM, ENGLAND, ASSIGNOR TO ELIZA THORPE, OF SAME PLACE.

LAMP AND LAMP-STOVE.

SPECIFICATION forming part of Letters Patent No. 564,098, dated July 14, 1896.

Application filed September 30, 1895. Serial No. 564,182. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM PORTER, a subject of the Queen of Great Britain, residing at Birmingham, in the county of Warwick, England, have invented certain new and useful Improvements in Lamps and Lamp-Stoves, of which the following is a specification.

The invention relates to that class of lamps or lamp-stoves in which two or more flat wicks are mounted parallel to each other and a central or intermediate air-supply is provided between the wicks; and the invention consists of a novel mode of construction of such class of lamps and lamp-stoves.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a sectional elevation of a lamp-stove with the parts in position for use; and Fig. 2 is a sectional elevation of the same lamp-stove, showing the chimney and burner turned on their hinge-joint and separated from each other and from the tank.

a is the tank, which is provided with feet a' to raise the bottom above its support and thereby form an air-space beneath the same. To the center of the tank-bottom is fixed a rectangular air-tube a^2 , which is open at both ends, so that air may enter at the bottom and pass out at the upper end to supply air to the inner surfaces of the flames.

The burner has two wick-tubes $b b$, wick-raising pinions $c c$, a perforated diaphragm or basket d , a seat e for the cone f and chimney l , and a flat fitting g to fit a corresponding socket formed in the burner-fitting a^3 on the tank-top. To the burner, between the wick-tubes $b b$, is fixed an air-tube i to form a continuation of the tube a^2 up to a short distance below the tops of the wick-tubes $b b$.

The parts above described, separately considered, form no part of my present invention.

According to my present invention, instead of forming the air-tubes a^2 and i of such lengths and proportions as to fit the one within the other, I now make the lower end of the tube i to fit on the upper end of the tube a^2 , a layer of cork or other suitable material i' being interposed between such parts to secure a tight joint, and, in order at the same time to prevent as far as possible the "weeping" of any condensed vapor over the upper edge of the tube a^2 to the exterior of the tank, I form the co-fitting parts of such

air-tubes inclined toward the interior of the tank, as shown, or I apply a slightly-rising lip all around the inner edge of the top of the air-tube a^2 , so that any condensed vapor accumulating on such part shall run back into the tank.

So far as above described the burner may be capable of complete removal from the tank and of being placed in position vertically, and of being secured in position for use by any of the well-known catches or fastening means.

The present invention enables me to connect the chimney-seat e and burner rigidly together and hinge the chimney-seat e , as heretofore, to the pin k , so that the seat e and burner can be moved into and out of position for use by simply turning them on the pin k , a spring-catch m being employed, as heretofore, to secure the seat e and chimney l in position for use and to facilitate access to the burner.

It will be readily understood that the present invention, although described in connection with a lamp-stove, is equally applicable to lamps.

Having fully described my invention, what I desire to claim and secure by Letters Patent is—

1. The combination, with an oil-tank and burner having two flat wicks, of the divided air-tube fitted together by means of a cork or other suitable joint; the oil-tank part of the air-tube being beveled upon its upper edge toward the interior of the oil-tank and the lower end of the burner part of the air-tube being made to fit the oil-tank part of the air-tube; substantially as described.

2. The combination, with an oil-tank and burner having two wick-tubes; of a divided central air-tube and a layer of packing material attached to one part of the air-tube and providing a tight joint between the two parts thereof; substantially as described.

3. The combination of the oil-tank, the hinged burner, the hinged chimney, the pivot common to both the burner and chimney, and the divided central air-tube having its parts secured respectively to the oil-tank and to the burner; substantially as described.

WILLIAM PORTER.

Witnesses:

THOMAS MARSTON,
A. THORPE.