(No Model.)

A. G. HEATH.

KEROSENE LAMP.

No. 389,569. Patented Sept. 18, 1888.

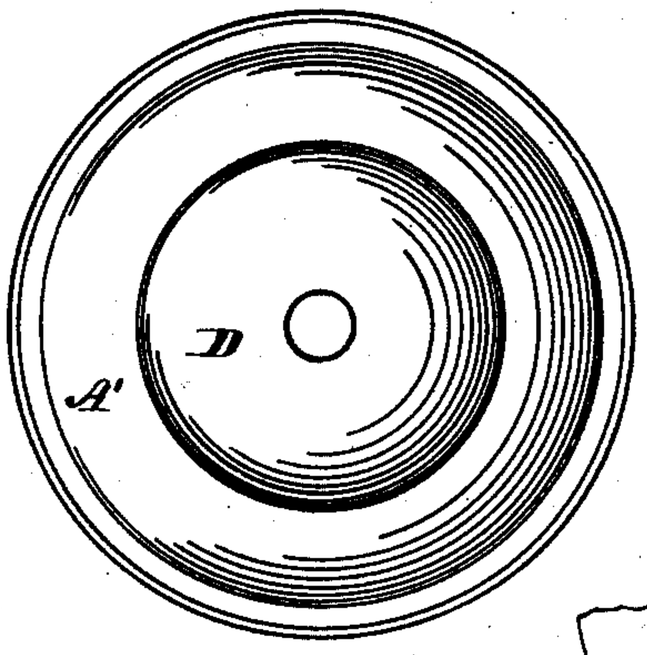

Fig. 2.

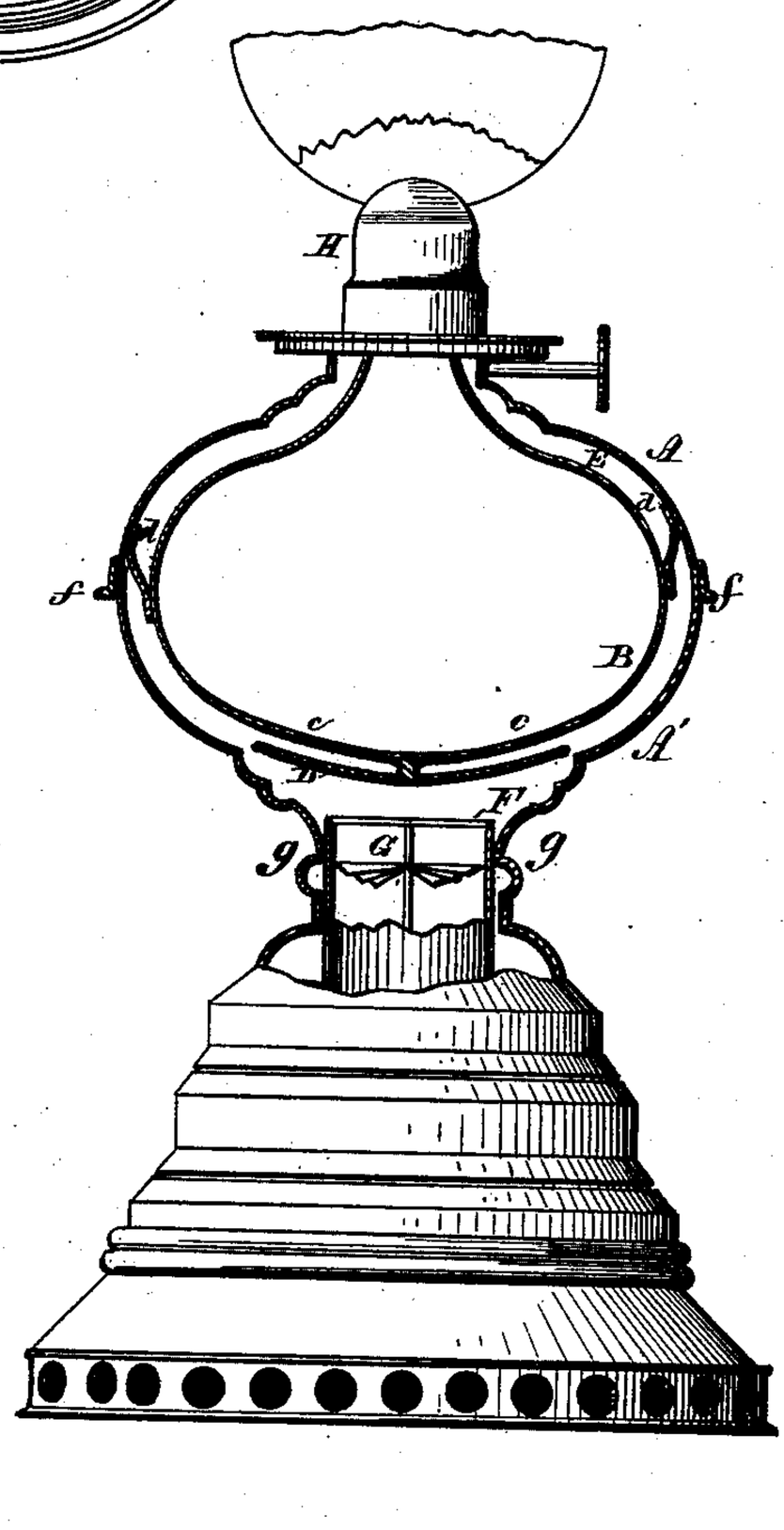

Fig. 1.

Witnesses

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Att'y

UNITED STATES PATENT OFFICE.

ABLE G. HEATH, OF HAMILTON, ONTARIO, CANADA, ASSIGNOR TO RICHARD MOTT WAUZER, OF SAME PLACE.

KEROSENE-LAMP.

SPECIFICATION forming part of Letters Patent No. 389,569, dated September 18, 1888.

Application filed March 10, 1887. Serial No. 230,465. (No model.)

To all whom it may concern:

Be it known that I, ABLE GROVE HEATH, of Hamilton, in the county of Wentworth and Province of Ontario, Canada, have invented a certain new and useful Improvement in Kerosene-Lamps; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

The invention relates more particularly to that class of kerosene-lamps known as "mechanical lamps," which are used with a central air-draft fan-blast to dispense with a chimney; and the present device is an additional improvement on my former application, for which Letters Patent of the United States were allowed me on October 15, 1886, and calculated to prevent oil from finding its way to the fan, or refuse from the wick to clog up the fan or drop on the table immediately under the lamp.

The invention consists in the construction and combination of parts hereinafter described and claimed.

By reference to the drawings, forming part of this specification, it will be seen that Figure 1 represents an elevation of my improved mechanical lamp partly in section. Fig. 2 is a bottom plan view of oil reservoir and drip-cup.

A is the outer and upper shell of the lamp; A′, the lower portion.

B is the inner oil-reservoir, formed convex on its lower side, as at *c c;* D, the circular convex saucer-shaped receptacle or drip cup attached at the center to the extreme bottom of the oil-reservoir.

E is the air-space formed between the outer shell, A, and the oil-reservoir B.

F is the central draft-tube containing the interior fan, G, for forcing a continuous current of air to the burner.

d d are the strips of metal connecting the upper portion of the outer shell, A, with the oil-reservoir B.

By attaching the drip-cup D to the bottom of the oil-reservoir B, as shown, both can be readily removed together whenever it becomes necessary to refill the reservoir, and at this time, before filling and replacing the reservoir, the attached drip-cup can be conveniently cleansed. It is obvious that by thus preventing the accumulation of oil and wick-refuse in the drip-cup the fan G, located in the draft-tube F, will be more thoroughly protected from injury. It will also be observed, by reference to Fig. 1, that the lower part, A′, of the outer lamp-shell is made to closely embrace or encircle the upper part of the draft-tube F, thus effectually preventing the access of any oil-drip or wick-refuse to the fan clock-movement, which is usually located in the base of the lamp outside the central draft-tube.

The operation of the device is as follows: Any oil or refuse from the wick dropping from the burner H will pass down the space E between the outer shell, A, and reservoir B, when it will be caught on the saucer-shaped drip-receptacle D. This effectually keeps the oil and wick refuse from coming in contact with the fan G, and the clock-movement which drives the fan being placed outside of the central draft-tube, F, the oil or drip refuse cannot possibly come in contact with it, as the outer shell of the lamp tightly encircles the upper portion of the tube F on the horizontal line *g g*. The upper part of the shell A and oil-reservoir B are detachable from the lower part, A′, at the line *f*, and each day when the lamp is being refilled the said top portion, A, and oil-reservoir B are removed, and if there is anything in the drip-cup the contents are removed, and thus the fan G is prevented from being clogged up with oil-drip or refuse from the burner, and consequently the fan is always allowed to run free and cause the lamp to burn with a steady flame without smoke or odor.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a lamp having a forced draft and a removable oil-reservoir, the combination, with the central draft-tube, F, and draft mechanism, of the outer shell, A A′, closely embracing the upper portion of the central draft-tube, and the drip-cup D, attached to the bottom of the oil-reservoir and removable therewith, whereby said cup can be conveniently cleansed and the draft mechanism protected from becoming clogged with oil and with refuse, substantially as described.

Dated at Hamilton, Ontario, this 2d day of March, A. D. 1887.

A. G. HEATH.

In presence of—
W. A. LOVELL,
WM. BRUCE.