(No Model.) 2 Sheets—Sheet 1.

W. B. ROBINS.

Lamp.

No. 237,777. Patented Feb. 15, 1881.

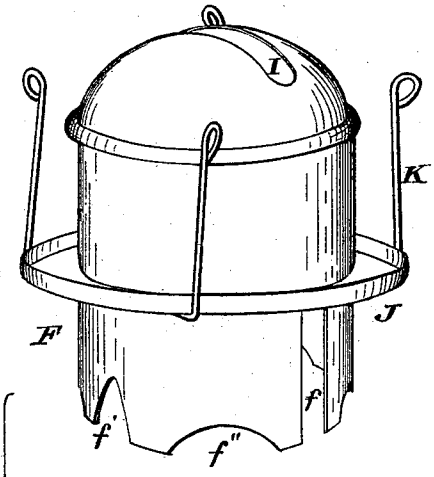
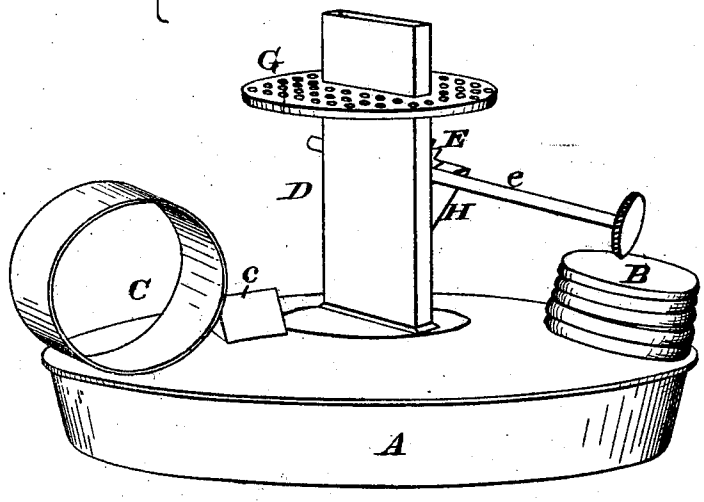


Fig. 1.



Attest
P. Knight.
W. Allen

Inventor
William Burnet Robins.
by Knight Bros.
Attys.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

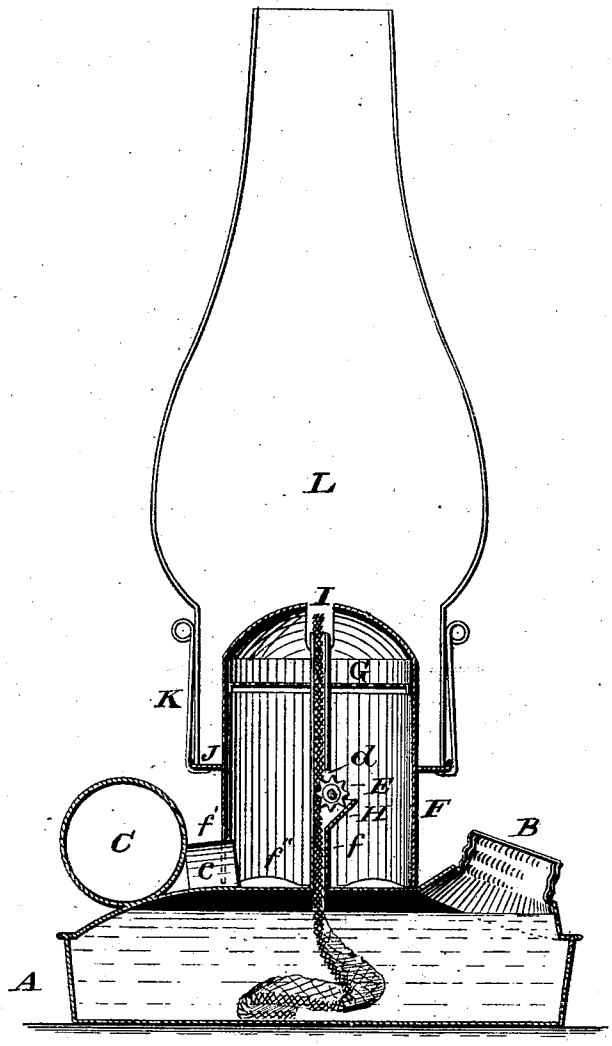
(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM B. ROBINS, OF CINCINNATI, OHIO.

LAMP.

SPECIFICATION forming part of Letters Patent No. 237,777, dated February 15, 1881.

Application filed June 18, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BURNET ROBINS, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Lamps, of which the following is a specification.

My invention relates to a construction of metallic kerosene-lamps having a low and broad base, which is also the reservoir from which rises the wick-tube, and having an air duct and deflector wholly detached from the base and wick-tube, and which is guided and held to its proper place by slots in its lower edge, that embrace the handle-stay and the shaft of the wick-elevator, and by a perforated collar upon the wick-tube. The air-duct can be lifted off at any moment, so as to afford convenient access to the perforated collar, for removing wick-droppings and for evenly trimming the wick. The ready removal of the air-duct also facilitates access to the wick-raising mechanism for repair or other purpose.

In the accompanying drawings, Figure 1 is a perspective view, showing the air-duct lifted from the lamp proper. Fig. 2 is a vertical section of the lamp.

The base of the lamp consists of a shallow circular reservoir, A, having customary screw-capped neck B, for charging the reservoir, and handle C, for carrying the lamp. Rising from the reservoir is a flat wick-tube, D, slotted at *d*, for the wick-elevator E, whose shaft *e* is sufficiently prolonged to extend beyond the air-duct F.

The air-duct F is composed of tinned iron or other highly-polished sheet metal, and its form is that of a deep hollow cylinder surmounted by the customary slotted hemispherical deflector I. The interior surfaces of this air duct and deflector are permitted to retain their metallic luster. The air-duct F is slotted at *f* and *f'*, to fit over the wick-elevator shaft *e* and the handle-stay *c*.

A perforated collar, G, upon the wick-tube serves to strain and heat the draft-air on its way to the flame, and coacts with the stay *c* and shaft *e* to guide and hold the air duct and deflector F I to its proper place.

A funnel, H, located beneath slot *d*, serves to conduct back into the wick-tube any drip from the elevator.

Scallops or notches *f''* in the lower edge of the air-duct serve to admit draft-air and to emit light.

The bright metallic interior surfaces of the air duct and deflector, by projecting light through the flame-slot, enhance the brilliancy and whiteness of the flame in the ordinary operation of the lamp. For night use, or in the sick-room, the wick being lowered to a point at which the flame disappears within the deflector, a mild light issues from the various openings of the air-duct and deflector.

J K may represent, respectively, the gallery and clips for support of any suitable glass chimney, L.

The air-duct F being entirely detached from the reservoir and resting loosely upon it, heating up of the duct does not act to heat the contents of the reservoir so as to produce dangerous volatilization thereof, and the duct, with its chimney, can at any moment be lifted off from the lamp proper, and can be instantly and accurately replaced.

I claim as new and of my invention—

1. In a kerosene-lamp, the combination, with the reservoir A, wick-tube D, perforated collar G, stay *c*, and wick-elevator shaft *e*, of the air duct and deflector F I, having the guide-notches *f f'*, substantially as and for the purpose set forth.

2. The combination of the air duct and deflector F I with the handle-stay *c*, occupying a notch, *f'*, in the bottom edge of said duct, and serving to hold it in place.

In testimony of which invention I hereunto set my hand.

WILLIAM BURNET ROBINS.

Attest:

GEO. H. KNIGHT,

W. TYSON JUDKINS.