

(No Model.)

A. R. CONRAD.
ARGAND LAMP BURNER.

No. 258,281.

Patented May 23, 1882.

FIG. 1.

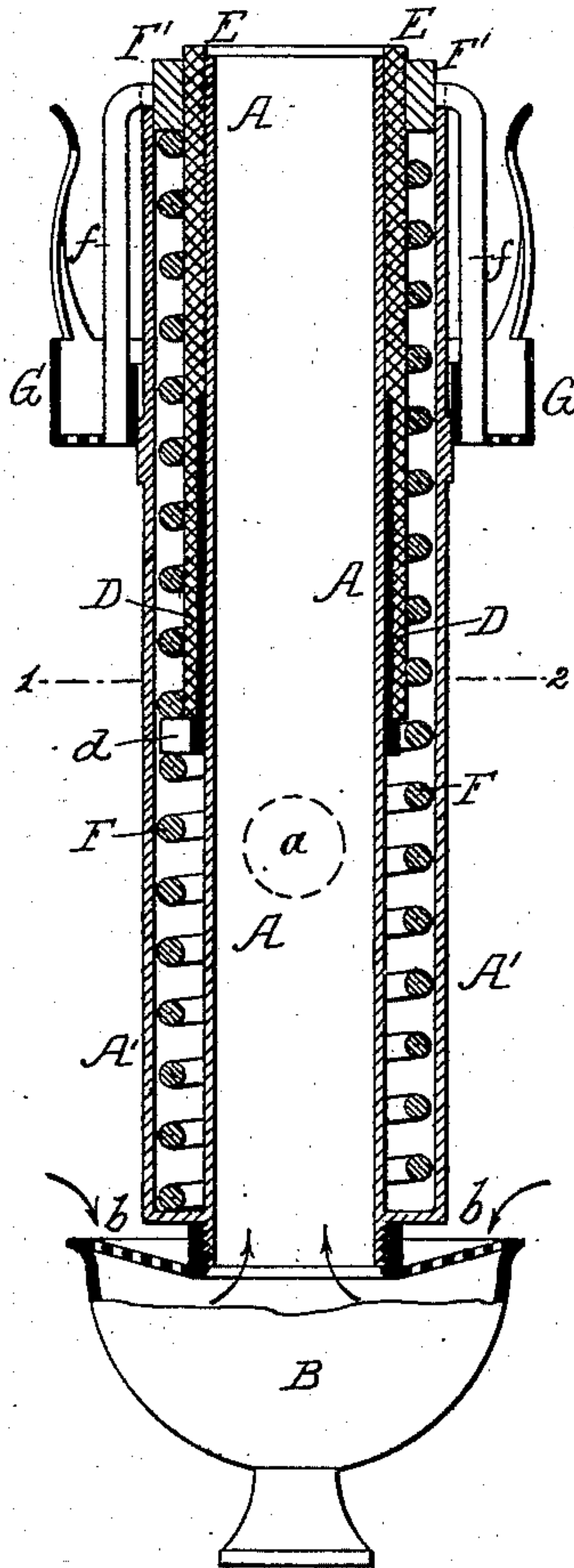
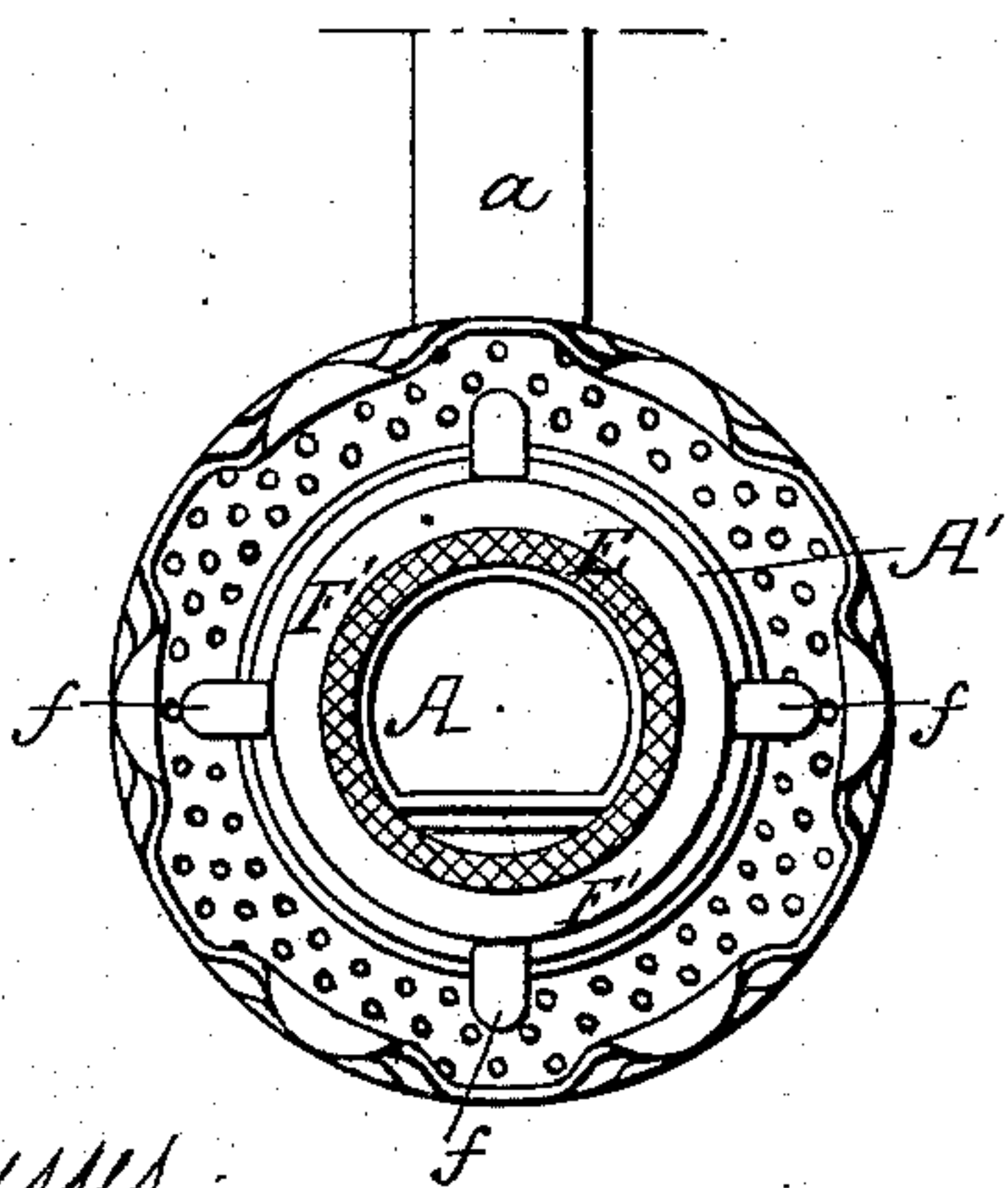
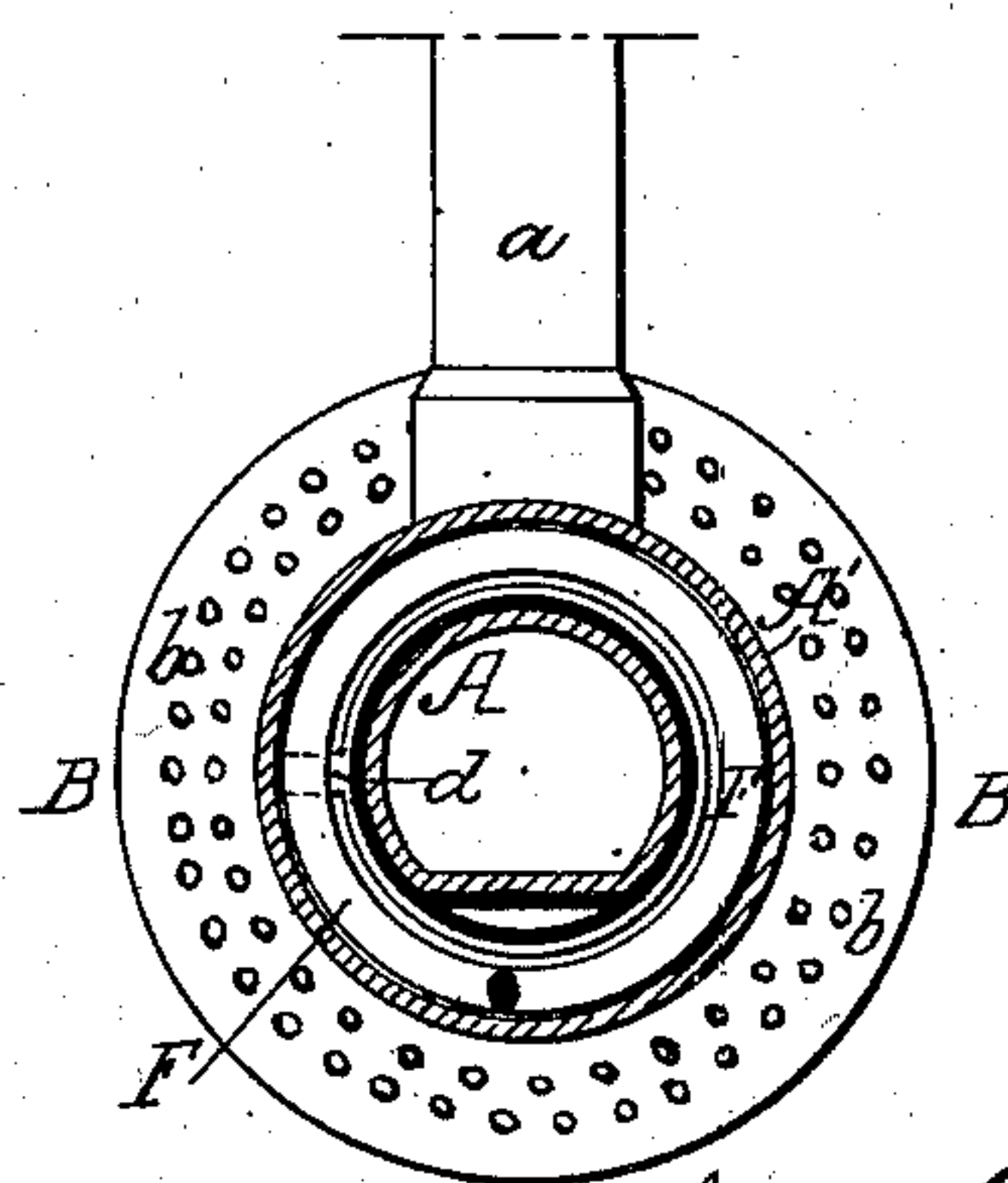


FIG. 2.



Witness:
D. Williams
Harry Drury

FIG. 3.



Inventor:
Augustus Conrad
by his attorneys
Howson and Son.

UNITED STATES PATENT OFFICE.

AUGUST R. CONRAD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF TO ANDREW J. WEIDENER, OF SAME PLACE.

ARGAND LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 258,281, dated May 23, 1882.

Application filed August 24, 1881. (No model.)

To all whom it may concern:

Be it known that I, AUGUST R. CONRAD, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Argand Lamp-Burners, of which the following is a specification.

My invention relates to certain improvements in Argand lamp-burners, the object of my invention being to improve and simplify the construction of the devices for carrying and for raising and lowering the wick.

In the accompanying drawings, Figure 1 is a vertical section of the burner of an Argand lamp with my improvements; Fig. 2, a plan view, and Fig. 3 a sectional plan on the line 1 2, Fig. 1.

The wick-carrying portion of the lamp consists, as usual, of an inner tube, A, and an outer tube, A', and between the two is an annular oil-chamber, closed at the bottom and open at the top, and receiving its supply of oil near the lower end through a tube, a, from a suitable oil-reservoir.

Onto an extension at the bottom of the inner tube is screwed the cup B, the top b of which is finely perforated to admit the air to the inner tube, A, the perforations neutralizing the effects of sudden gusts and insuring a steady draft through the said tube.

To the tube A is adapted the tube D, carrying the tubular wick E, the said tube D being prevented from turning on the tube A by a flattened side, or a flat strip soldered within it to fit a correspondingly-flattened side on the tube A, as shown in Fig. 3.

Within the oil-chamber, between the two tubes, is a spiral coil, F, the upper end of which is secured to a ring, F', adapted to turn freely within the top of the outer tube, A'. In notches in the edge of this ring are fitted the upper bent ends of hangers f, which carry the annular support G for the usual lamp-chimney. A stud, d, on the wick-tube D fits between the

coils of the spiral, as shown in Fig. 1, so that by turning the chimney-holder G, and with it the ring F' and spiral F, the said wick-tube and its wick may be raised or lowered.

I am aware that Argand burners have long been constructed in which a lug on the wick-carrier was adapted to a spiral groove cut on the inner or outer tube of the lamp, and I do not desire to claim broadly, therefore, a spiral elevator for the wick-tube, this feature of my invention consisting in the use of an ordinary coiled-wire spring which can be slipped into the space between the inner and outer tubes, and forms a cheap and acceptable substitute for the costly and inconvenient cut groove, besides presenting less frictional surface to retard the elevation of the wick.

I claim as my invention—

1. The combination of the inner and outer tubes, A A', of the burner, the wick-carrier D, having a lug, d, and the coiled wire F, serving as an elevator for the wick-carrier, as set forth.

2. The combination of the inner and outer tubes, forming an oil-chamber, and the wick-tube having a stud, with the spiral coil and ring at the upper end of the tube for turning the coil in the said chamber, substantially as specified.

3. The combination of the inner and outer tubes, forming an oil-chamber, and the wick-tube having a stud, with the spiral in the said chamber, a ring at the top secured to the spiral, and a chimney-support attached to said ring, all substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AUGUST R. CONRAD.

Witnesses:

HARRY DRURY,
HUBERT HOWSON.